

Date: 1 August 2019

Subject: Ancillary Facilities Management Plan Revision 39 – Update of Project Ancillary Facilities Operational Periods.

Executive Summary

An extension of operational timeframe is being sort for the Southern, Wilson Road, Trelawney Street, Pioneer Avenue, Northern, Barclay Road, Bareena Avenue, Junction Road and Pearce's Corner Compounds, as well as the Mt Kuring-Gai Batch Plant. These extensions are being sort to align the approved operational timeframes of Ancillary Facilities with the revised project end date, removing any potential uncertainty on the status of these facilities as construction progresses into demobilisation and/or operational support.

This revised project end date is primarily the result of worse than anticipated geological conditions experienced during mainline tunnel excavation, with both harder and softer strata features resulting in slow productivity, as well as a number of other factors.

1. Description

An extension to the operational timeframe of the Southern, Wilson Road, Trelawney Street, Northern, Bareena Avenue, Junction Road and Pearce's Corner Compounds is sought until the end of June 2020 (referred to throughout as June 2020 extension), as well as the Mt Kuring-Gai Batch Plant until December 2019 (Mt Kuring-Gai Batch Plant December 2019 extension), and both Barclay Road and Pioneer Compounds until June 2022 (Barclay Road and Pioneer Avenue June 2022 extension), as outlined in Table 3-1 of the AFMP, to continue to support and facilitate construction of the NorthConnex Motorway. No changes to the site layout or alterations to access arrangements are proposed as a result of these extensions. Table 3-1 is included as **Attachment A** to this letter.

2. Consultation

No changes are proposed for the June 2020 Extension or Mt Kuring-Gai Batch December 2019 other than an extension of the operation timeframe. Surrounding neighbors will be notified of this extension. Ongoing consultation with affected or potentially affected residences will be carried out in accordance with the approved Community Communication Strategy (CCS) in place for the NorthConnex Project. The associated CCS also includes measures to manage any complaints or negative feedback that may be received as a result of the works being undertaken. Additionally, the Community Hotline and Project website will continue to be available as a tool for members of the community to contact the Project.

While no changes are proposed for the Barclay Road and Pioneer Avenue – June 2022 extension, additional consultation would be undertaken project completion neared, ensuring the surrounding properties are kept informed of the sites utilisation during the motorway's two year defects correction period. This consultation would be consistent with an Operational Community Consultation Strategy or equivalent.

It's further considered that generally, the local community is satisfied with the performance of the project, specifically the operation of these ancillary facilities. This consideration is derived through ongoing periodic construction updates provided to all impacted residents, direct interaction and transparent communication between the immediate neighbours of these existing ancillary facilities and the Community Team as well as a significant overall reduction in complaints from the public as the scale of works continue to decline across the facilities.

3. Compliance with Condition of Approval D51

An assessment against the CoA D51 is provided below for the proposed site layout adjustment at the Southern Compound.

(a) a description of the ancillary facility (including a site layout plan), its components and details of the existing environment on and in the vicinity of the site;

June 2020 extension; The ancillary facilities will remain operating as temporary construction facilities with the same site layouts and components as described in Section 1 above and Table 3-1 of the AFMP, included as **Attachment A** to this letter.

Mt Kuring-Gai Batch Plant December 2019 extension; The ancillary facility will remain operating as a temporary construction facility with no changes to the site lay out or operational components as described in Table 1-1 and Table 3-1 of the AFMP.

Barclay Road and Pioneer Avenue June 2022 extension; The ancillary facilities will remain operating as temporary construction facilities with no changes to the site lay out or operational components as described in Table 1-1 and Table 3-1 of the AFMP. All construction related actives would be completed at these compounds by June 2020.

(b) details of the activities to be carried out at the facility, including the hours of operation, staging of operation and predicted date of commissioning;

There is no change proposed to the hours of operation at these Compounds. As mentioned above, the intention is to maintain operation of the Compounds until the end of dates respectively outlined above in Section 1 and in Table 3-1 of the AFMP.

June 2020 extension; It is of note that, while construction activities are still being undertaken at each site, there has been a significant reduction in intrusive noise generating works; tunnel spoil handling and transport has all but ceased and piling and bulk excavation works on the surface has also largely been completed. These construction compounds are now primarily being used to facilitate tunnel, civil and building fit out activities and the logistics associated with this work. Decommissioning of the compounds will also progressively be completed. With this reduced scope of works comes a reduction of associated environmental impacts, both incidental and cumulative.

Mt Kuring-Gai Batch Plant December 2019 extension; the Mt Kuring-Gai Batch Plant will continue to supply concrete to the tunnel as outlined in the Site Specific Ancillary Facility Mt Kuring-Gai Batching plant submission dated 17 May 2016.

Barclay Road and Pioneer Avenue June 2022 extension; the extension of Barclay Road and Pioneer Avenue beyond June 2020 is requested to provide facilities for NorthConnex personnel and the storage of materials and construction plant for the motorway's two year defects correction period, through until June 2022. All construction related actives would be completed at these compounds by June 2020.

(c) a description of the plant, equipment and materials to be used and/or stored on the site, including dangerous and hazardous goods;

June 2020 extension; No new plant, equipment or materials are proposed, only the continuation of the same permitted for use, albeit reduced in scale, under the current approval as currently described in the AFMP.

Mt Kuring-Gai Batch Plant December 2019 extension; No new plant, equipment or materials are proposed, only the continuation of the same permitted for use, albeit reduced in scale, under the current approval as currently described in the AFMP.

Barclay Road and Pioneer Avenue June 2022 extension; No new plant, equipment or materials are proposed, only the continuation of the same permitted for use, albeit reduced in scale, under the current approval as currently described in the AFMP.

(d) a summary of the potential environmental impacts associated with the construction and operation of the facility;

There are no additional environmental impacts anticipated as a result of the June 2020 Extension, the Mt Kuring-Gai Batch Plant December 2019 extension or the Barclay Road and Pioneer Avenue June 2022 extension above those already considered under the current approval, as described in the AFMP.

(e) details of the mitigation, monitoring and management procedures specific to the facility that would be implemented to minimise environmental and amenity impacts or, where this is not possible, feasible and reasonable measures to offset these impacts;

No changes to management or mitigations measures are required as a result to the June 2020 Extension, the Mt Kuring-Gai Batch Plant December 2019 extension or the Barclay Road and Pioneer Avenue June 2022 extension. The use of the sites will be undertaken in accordance with the CEMP and AFMP.

Where ever possible, operational noise mitigation measures including the application of acoustic treatment to houses and the installation of permanent noise walls where required has been completed prior to the removal of temporary compound hoarding.

(f) a description of how the management and mitigation measures set out in the documents listed in condition A2 will be implemented on the site, and if not, justification for any departures from those management and mitigation measures;

Management measures for the June 2020 Extension, the Mt Kuring-Gai Batch Plant December 2019 extension and the Barclay Road and Pioneer Avenue June 2022 extension will be implemented as per the AFMP and Construction Environmental Management Plan (CEMP) with associated sub plans.

(g) identification of the timing for the completion of site establishment activities at the facility and how the site will be decommissioned (including any necessary rehabilitation); and

Site establishment is complete.

June 2020 Extension; As outlined above, the intention is to maintain operation of these compounds until the end of June 2020, as outlined in Table 3-1 of the AFMP. The intension of this extension is to also ensure the sites will be decommissioned and rehabilitated, in accordance with the Urban Design Landscape Plan, within this revised timeframe.

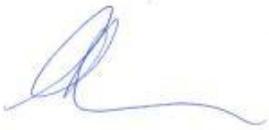
Mt Kuring-Gai Batch Plant December 2019 extension; The intension is to maintain operation of the Mt Kuring-Gai Batch Plant until the end of December 2019. Decommissioning of the compound will be completed within this timeframe also, to a level as agreed with Kuring-Gai Sire Council.

Barclay Road and Pioneer Avenue June 2022 extension; Similar to the June 2020 extension, the intention is to maintain operation of the Barclay Road and Pioneer Avenue Compounds until the end of June 2020. However beyond June 2020, an additional two year period is required to be requested to provide facilities for NorthConnex personnel and the storage of materials and construction plant for the motorway's two year defects correction period.

(h) mechanisms for the monitoring, review and amendment of this plan.

The proposed June 2020 Extension, Mt Kuring-Gai Batch Plant December 2019 extension or the Barclay Road and Pioneer Avenue June 2022 extension do not change the details from the currently approved AFMP. Please refer to Table 3-1 within the AFMP and **Attachment A** that responds to these points.

Yours Sincerely



Martin Howe

Approvals and Compliance Lead

Attachments

Attachment A - Table 3-1; Key Work Activities proposed at each compound

Attachment A - Table 3-1; Key Work Activities proposed at each compound

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
C5	Southern Interchange Compound	<ul style="list-style-type: none"> The Southern Interchange compound would be located to the north of the Hills M2 Motorway and to the west of Pennant Hills Road. The site currently comprises of a number of residential properties. An existing commercial business is also on-site. The vegetation within the site consists of urban natives and exotics. A planted population of the threatened <i>Syzygium paniculatum</i> (Lily Pilly) exist at the south-western end of the compound. The mapped soil type within the area is of the Glenorie formation (High soil erosion hazard; localised impermeable highly plastic subsoils, moderately expansive). 	<ul style="list-style-type: none"> The local area is characterised by low density residential development. In addition to numerous residential receivers, the nearest potentially affected non-residential sensitive receivers include: <ul style="list-style-type: none"> Recreational (Pennant Hills Golf Club). Native Vegetation. Commercial (Carman drive community shopping centre). The site is adjacent to the M2 Motorway and Pennant Hills Road. Pennant Hills Road is subject to heavy traffic flows and congestion along during commuter peak periods and business hours. Pennant Hill Golf Club is to the East of the site and holds a local heritage listing under the Hornsby LEP. 	<p>Establishment (June 2015 – May 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls. Further site investigations. Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Traffic controls; and Installation of gates and internal roads. Local road connection. Site preparation including: <ul style="list-style-type: none"> Demolition of structures; Clearing, grubbing and vegetation removal. Temporary relocation and extension of detention tank. Protection of existing services. Installation of new services (including high voltage (HV) cables and kiosk), drainage and communications. Commencement of construction of minimum 3m high construction noise wall around site boundary. Construction of Pennant Hills Road and M2 Motorway access points. Earthwork activities comprising: <ul style="list-style-type: none"> Piling platform preparation. Piling of shaft footprint. Retaining wall installation along Pennant Hills Road. Construction of internal reinforced, earth wall (8m in height). Cut and fill activities, including terracing up to 10m to reach levels for the site. Preparation of M2 shaft. Preparation of decline tunnel footprint. Site installation involving: <ul style="list-style-type: none"> Foundations and sealing of surfaces. Staff amenity structures and fit out. Workshop structures and fit out. Water treatment plant and water tank including fit out. Installation of fuel and chemical storage activities. Formalisation of on-site car parking. Formalisation of haul roads and 	<p>Establishment</p> <p>The project aims to restrict working hours for site establishment between</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	Site establishment will require clearing of urban native and exotic vegetation.	Refer to Appendix A, Flora & Fauna , Mitigation Measures A164 – A200
						Management of potential contamination from previous commercial land use	Refer to Appendix A – Mitigation Measure, Southern Interchange Compound A2
						Waste Management relating to: <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste 	Refer to Appendix A - Reference: Waste/Hazardous Materials , Mitigation Measures A229 – A232
						Potential for dust emissions associated with surface spoil handling and storage of materials	Refer to Appendix A – Reference: Air Quality , Mitigation Measures, A213 – A225
						Potential noise impacts during site establishment works	Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121 – A127
						It is predicted that approximately 23 sensitive receivers may be highly noise affected during the daytime prior to the installation of the noise walls around the compound assuming a worst case scenario.	
						Uncontrolled Erosion and Sediment run off	Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201– A207
						Spills (e.g. fuel, chemicals etc.)	Refer to Appendix A – Reference: Waste/Hazardous Materials , Mitigation Measures A229 – A232
Light spillage from night works impacts upon surrounding residents	Refer to Appendix A – Reference: Visual Amenity , Mitigation Measures A226 – A228						
Visual Impact of construction site, including hoardings.	Refer to Appendix A – Reference: Visual Amenity , Mitigation Measures A226 – A228						

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<ul style="list-style-type: none"> external connections. o Installation of second construction noise wall 4m in height alongside internal heavy vehicle haul route. o Installation and use of a temporary tower crane • Acoustic shed installation comprising: <ul style="list-style-type: none"> o Foundations, rock bolting and drainage. o Weigh Bridge and wheel wash installation. o Steelwork and installation of wall panels. o Installation of flashing, doors and ancillary structures. o Crane install and fit out of structure. o Ventilation equipment, including fans. • Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> o Fuel storage o Site sealing o Chemical storage o Hazardous material storage o Stockpile/laydown 			
				<p>Operation (January 2016 – June 2020)</p> <ul style="list-style-type: none"> • Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include: <ul style="list-style-type: none"> o Operation of staff amenities, parking and site infrastructure generally. o Deliveries. o Stockpile/laydown. o Removal of spoil. o Shaft excavation and piling o Decline tunnel construction, including cut and cover and temporary shaft activities. o Operation of Water treatment plants (upon commencement of tunnelling activities). o 24 hour tunnelling site o Concrete deliveries o Shotcrete install. o Tunnelling support activities. o Fuel storage (30,000 litres). o Chemical storage. o Storage of plant and equipment not in use. o Operation of tower crane o Landscaping 	<p>Operation 24 hours/7 days per week</p>	<ul style="list-style-type: none"> Management of spoil from tunnelling and shaft excavation Noise and vibration from tunnelling activities, stockpile management and deliveries Potential dust impacts during stockpiling activities and removal of spoil Uncontrolled erosion and sediment run off Spills (e.g. fuel, chemicals etc.) Light spillage from night works. Visual impact of construction site, including hoardings. 	<ul style="list-style-type: none"> Construction Soil and Water Management Plan Spoil Management Strategy Construction Noise and Vibration Management Plan Construction Air Quality Management Plan Construction Soil and Water Management Plan Site Specific Erosion and Sediment Control Plans CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol Construction Soil and Water Management Plan This plan, Section 7.8, "light spill"

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<p><u>Transition to Permanent Operational Facility</u> The Southern Interchange compound will be decommissioned as a construction ancillary facility to become the operational motorway control centre. Decommissioning of the ancillary facility will be in accordance with the CEMP, including the Construction Waste and Resources Management Plan. This will include the installation of the southern ventilation outlet, motorway control centre, substation and operational water treatment plant.</p>			
C6	Wilson Road Compound	<ul style="list-style-type: none"> The Wilson Road compound will be located on the corner of Wilson Road and Pennant Hills Road. The site currently comprises of residential properties. The site contains a small patch of Blue Gum High Forest EEC. The remainder of the vegetation within the site consists of urban natives and exotics. Hollow bearing trees have also been identified on-site. The mapped soil type within the area is of the Glenorie formation (High soil erosion hazard; localised impermeable highly plastic subsoils, moderately expansive). The site is within the locally heritage listed Beecroft Cheltenham Conservation Area. The heritage conservation area is part of a larger landscape of existing roads, houses and vegetation. The area is significant because it demonstrates the dominant impact on suburban fabric of the natural topography and its associated prominent native vegetation, closely integrated into the street patterns and residential 	<ul style="list-style-type: none"> The site is adjacent to Pennant Hills Road. This road is subject to heavy traffic flows and congestion along during commuter peak periods and business hours. The site is within and surrounded by the locally heritage listed Beecroft Cheltenham Conservation Area. The heritage conservation area is part of a larger landscape of existing roads, houses and vegetation. The area is significant because it demonstrates the dominant impact on suburban fabric of the natural topography and its associated prominent native vegetation, closely integrated into the street patterns and residential allotments of the area. In addition to numerous residential receivers, the nearest potentially affected non-residential sensitive receivers include: <ul style="list-style-type: none"> Schools (Mount St Benedict High School and St Agatha's Catholic Primary School) Recreational (Ludovic Blackwood Memorial Sanctuary and Observatory Park) Aged care facilities (Lutanda Manor) Places of worship (Christian City Church Carlingford and St 	<p>Establishment (June 2015 – July 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls; Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Local and Arterial road connections. Installation of boundary fencing, gates and internal roads. Site preparation including: <ul style="list-style-type: none"> Demolition of structures; Clearing, grubbing and vegetation removal. Installation of services (including HV kiosk), drainage and connection on adjoining road reserve. Commencement of construction of approx. 4m high construction noise wall around site. Note hoarding height transitions from 3.2m up to 4m adjacent to residents – see layout drawing in Appendix B. Commencement of the student pedestrian walkway adjacent to shared property boundary. Earthwork activities comprising: <ul style="list-style-type: none"> Cut and fill activities up to 5m to reach levels for the site. Installation of acoustic shed retaining walls and backfill platform. Site installation involving: <ul style="list-style-type: none"> Staff amenity structures and fit out. Workshop structures and fit out. Water treatment plant and water tank including fit out. 	<p>Establishment The project aims to restrict working hours for site establishment between:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	Removal of vegetation Blue Gum High Forest EEC and urban natives and exotics	Refer to Appendix A, Flora & Fauna , Mitigation Measures A164 – A200
						Waste Management relating to: <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste 	Refer to Appendix A Reference: Waste/Hazardous Materials , Mitigation Measures A229 – A232
						Potential for dust emissions associated with surface spoil handling and storage of materials	Refer to Appendix A – Reference: Air Quality , Mitigation Measures, A213 – A225
						Potential noise impacts during site establishment works It is predicted that approximately 20 sensitive receivers may be highly noise affected during the daytime prior to the installation of the noise walls around the compound assuming a worst case scenario.	Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121-A127
						Uncontrolled Erosion and Sediment run off	Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201-A207
						Spills (e.g. fuel, chemicals etc.)	Refer to Appendix A – Reference: Waste/Hazardous Materials , Mitigation Measures A229 – A232
						Light spillage from night works impacts upon surrounding residents	Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
		allotments of the area.	Agatha's Parish).	<ul style="list-style-type: none"> o Installation of fuel and chemical storage activities. o Formalisation of on-site car parking. o Formalisation of haul roads and external connections. • Acoustic shed installation comprising: <ul style="list-style-type: none"> o Foundations, rock bolting and drainage. o Weigh bridge and wheel wash installation. o Steelwork and installation of wall panels. o Installation of flashing, doors and ancillary structures. o Bridge crane install and fit out of structure. o Ventilation equipment, including fans. • Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> o Fuel storage o Site sealing o Chemical storage o Hazardous material storage o Stockpile/laydown 		Visual Impact of construction site, including hoardings.	Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,
				<p>Operation (December 2015 – June 2020)</p> <ul style="list-style-type: none"> • Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include <ul style="list-style-type: none"> o Operation of staff amenities, parking and site infrastructure generally. o Deliveries. o Stockpile/laydown. o Removal of spoil. o Shaft excavation & blasting o 24 hour tunnelling site o Concrete deliveries o Operation of Water treatment plants (upon commencement of tunnelling activities). o Tunnelling support activities. 	Operation 24 hours/7 days per week	Management of general construction waste and spoil from tunnelling and shaft excavation	Construction Soil and Water Management Plan Spoil Management Strategy
						Noise and vibration from shaft excavation (e.g blasting), tunnelling activities, stockpile management and deliveries	Construction Noise and Vibration Management Plan inclusive of Blast Management Strategy
						Potential dust impacts during earthworks, stockpiling activities and removal of spoil	Construction Air Quality Management Plan
						Uncontrolled erosion and sediment run off	Construction Soil and Water Management Plan Site Specific Erosion and Sediment Control Plans

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<ul style="list-style-type: none"> Fuel storage (30,000 litres). Chemical storage. Storage of plant and equipment not in use. Construction of additional facilities: <ul style="list-style-type: none"> Reconfiguration of student pedestrian walkway, boundary fencing, acoustic hoarding, gates and internal roads, and erosion and sediment controls; Realignment of internal services (including water, drainage and electricity); Earthworks; Installation of staff amenities/facilities and water treatment plant; and Landscaping <p><u>Transition to Permanent Operational Facility</u> Construction of permanent operational facilities – with emergency smoke extraction.</p>	<p>The project aims to restrict working hours between:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(works outside these hours will be carried out in accordance with the requirements of the project EPL).</p>	<p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works. Visual impact of construction site, including hoardings.</p>	<p>CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol</p> <p>Construction Soil and Water Management Plan</p> <p>This plan, Section 7.8, "light spill"</p>
C7	Trelawney Street Compound	<ul style="list-style-type: none"> The Trelawney Street compound will be located between Trelawney Street and Loch Maree Avenue on the eastern side of Pennant Hills Road in Thornleigh The site currently comprises of residential and commercial properties. Vegetation within the site is of scattered urban natives and exotics. The mapped soil type within the area is of the Glenorie formation (High soil erosion hazard; localised impermeable highly plastic subsoils, moderately expansive). 	<ul style="list-style-type: none"> Loch Maree Avenue contains locally heritage listed street trees. The site is adjacent to Pennant Hills Road. This road is subject to heavy traffic flows and congestion along during commuter peak periods and business hours. The general area is dominantly a residential zone, however potentially affected non-residential sensitive receivers also include: <ul style="list-style-type: none"> Thornleigh commercial area. Thornleigh industrial area. Recreational (Headen Park, Brickpit Sports Stadium and Thornleigh Golf Centre). Schools (Normanhurst West Community Pre-School and Public School) Road users. Places of worship (Chinese Australian 	<p>Establishment (June 2015 – July 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls; Environmental investigations and testing. Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Traffic controls; and Local and Arterial road connection. Installation of gates and internal roads. Site preparation including: <ul style="list-style-type: none"> Demolition of structures; Clearing, grubbing and vegetation removal. Installation of services (including HV kiosk), drainage and connection on adjoining road reserve. Commencement of construction of 3m, 4m or 5m high construction hoarding around all boundaries. Hoarding along Pennant Hills Road. Earthwork activities comprising: <ul style="list-style-type: none"> Cut and fill activities up to 5m to 	<p>Establishment</p> <p>The project aims to restrict working hours for site establishment between:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Removal of vegetation including urban natives and exotics</p> <p>Management of potential contamination from previous commercial land use</p> <p>Waste Management relating to: <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste </p> <p>Potential for dust emissions associated with surface spoil handling</p> <p>Potential noise impacts during site establishment works</p> <p>It is predicted that approximately 14 sensitive receivers may be highly noise affected during the daytime prior to the installation of the noise walls around the compound assuming a worst case scenario.</p> <p>Uncontrolled Erosion and Sediment runoff</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts</p>	<p>Refer to Appendix A, Flora & Fauna, Mitigation Measures A164 – A200</p> <p>Refer to Appendix A – Mitigation Measure, Trelawney Street Compound A43.</p> <p>Refer to Appendix A - Reference: Waste/Hazardous Materials, Mitigation Measures A229 – A232</p> <p>Refer to Appendix A – Reference: Air Quality, Mitigation Measures, A A213 – A225</p> <p>Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121-A127</p> <p>Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201-A207</p> <p>Refer to Appendix A – Reference: Waste/Hazardous Materials, Mitigation Measures A229 – A232</p> <p>Refer to Appendix A – Reference:</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
			Baptist Church).	<ul style="list-style-type: none"> reach levels for the site. o Box culvert excavation and preparation. o Installation of acoustic shed retaining walls and backfill platform. • Site installation involving: <ul style="list-style-type: none"> o Staff amenity structures and fit out. o Workshop structures and fit out. o Water treatment plant and water tank including fit out. o Installation of fuel and chemical storage activities. o Formalisation of on-site car parking. o Formalisation of haul roads and external connections. • Acoustic shed installation comprising: <ul style="list-style-type: none"> o Foundations, rock bolting and drainage. o Weigh bridge and wheel wash installation. o Steelwork and installation of wall panels. o Installation of flashing, doors and ancillary structures. o Bridge crane install and fit out of structure. o Ventilation equipment, including fans. • Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> o Sealing of site o Fuel storage o Chemical storage o Hazardous material storage 		<p>upon surrounding residents</p> <p>Visual Impact of construction site, including hoardings.</p>	<p>Visual Amenity, Mitigation Measures A226 – A228,</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p>
				<p>Operation</p> <p>(March 2016 – June 2020)</p> <ul style="list-style-type: none"> • Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include <ul style="list-style-type: none"> o Operation of staff amenities, parking and site infrastructure generally. o Deliveries. o Stockpile/laydown. o Removal of spoil. o Shaft excavation & blasting o 24 hour tunnelling site o Concrete deliveries o Tunnelling support activities. o Fuel storage (30,000 litres). o Chemical storage. o Storage of plant and equipment not in use. 	<p>Operation</p> <p>24 hours/7 days per week</p>	<p>Management of spoil from tunnelling and shaft excavation</p> <p>Noise and vibration from shaft excavation (e.g blasting), tunnelling activities, stockpile management and deliveries</p> <p>Potential dust impacts during stockpiling activities and removal of spoil</p> <p>Uncontrolled erosion and sediment run off</p> <p>Clearing of urban natives and exotics</p>	<p>Construction Soil and Water Management Plan</p> <p>Spoil Management Strategy</p> <p>Construction Noise and Vibration Management Plan inclusive of Blast Management Strategy</p> <p>Construction Air Quality Management Plan</p> <p>Construction Soil and Water Management Plan</p> <p>Site Specific Erosion and Sediment Control Plans</p> <p>Site- Specific Clearing Permit</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<ul style="list-style-type: none"> Operation of Water treatment plants (upon commencement of tunnelling activities). Site rehabilitation/ landscaping <p><u>Transition to Permanent Operational Facility</u> Construction of permanent operational facilities – with emergency smoke extraction.</p>		<p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works. Visual impact of construction site, including hoardings.</p>	<p>G40 Clearing and Grubbing Procedure Construction Flora and Fauna Management Plan</p> <p>CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol</p> <p>Construction Soil and Water Management Plan</p> <p>This plan, Section 7.8, "light spill"</p>
C8	Pioneer Avenue Compound	<ul style="list-style-type: none"> Pioneer Avenue compound will be located directly adjacent to the Northern Railway Line on Pioneer Avenue in Thornleigh. The site contains a small patch of Blue Gum High Forest EEC, which is of poor condition. There is a hollow bearing tree within the site. There are also several patches of weeds, exotics and urban natives. The site has a local heritage listing under the Hornsby LEP as it contains the remains of the former maltworks industrial site. The maltworks is considered to be an unusual industry which continues to use an older building layout and style through the present buildings. It was an important industry for the region and employer in the locality. The mapped soil type within the site is of the Glenorie formation (High soil erosion hazard; localised impermeable highly plastic subsoils, moderately expansive). 	<ul style="list-style-type: none"> The site is within the Thornleigh industrial area, with existing industrial and commercial sites to the north, south and west. Other sensitive receivers in the general area include: <ul style="list-style-type: none"> Recreational (Headen Park, Brickpit Sports Stadium and Thornleigh Golf Centre). Schools (Normanhurst West Community Pre-School and Public School) Road users. The Northern Railway Line runs along the eastern boundary of the site. 	<p>Establishment (June 2015 – February 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls; Environmental investigations and testing. Completion of archival recording and test excavations for Malt works structures. Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Traffic controls; Boundary fencing and security. Connections to Pioneer Avenue and Lymoore Avenue. Installation of gates and internal roads. Site preparation including: <ul style="list-style-type: none"> Demolition of all non-retained structures (Germination building and silos retained). Clearing, grubbing and vegetation removal (excluding EEC). Installation of services, drainage and connection on adjoining road reserve. Earthwork activities comprising: <ul style="list-style-type: none"> Cut and fill activities up to 8m to level portions of site at lower levels. Installation of site lighting. Terracing of parking areas. Sealing of areas. Site installation involving: <ul style="list-style-type: none"> Staff amenity structures and fit out. Installation of undercover areas for staff transfer and toolbox 	<p>Establishment</p> <p>The project aims to restrict working hours for site establishment between:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Removal of non EEC vegetation</p> <p>Management of potential contamination from previous commercial land use</p> <p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste <p>Potential for dust emissions associated with surface spoil handling and storage of materials</p> <p>Potential noise impacts during site establishment works</p> <p>It is predicted that no residential properties will be highly noise affected during site establishment works.</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts upon surrounding residents</p> <p>Visual Impact of construction site, including hoardings.</p>	<p>Refer to Appendix A, Flora & Fauna, Mitigation Measures A164 – A200</p> <p>Refer to Appendix A – Mitigation Measure, Pioneer Avenue Compound A15</p> <p>Refer to Appendix A - Reference: Waste/Hazardous Materials, Mitigation Measures A229-A232</p> <p>Refer to Appendix A – Reference: Air Quality, Mitigation Measures, A213 – A225</p> <p>Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121-A127</p> <p>Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201-A207</p> <p>Refer to Appendix A – Reference: Waste/Hazardous Materials, Mitigation Measures A229 – A232</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<ul style="list-style-type: none"> Jersey barrier completion. 			
				<p>Operation (February 2016 – June 2022)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include <ul style="list-style-type: none"> Car park Bus transfer area Amenities Stockpile/laydown First Aid Station Deliveries Storage of plant and equipment not in use. <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of site amenities Site rehabilitation to RMS requirements. Landscaping 	<p>Operation</p> <p>24 hours/ 7 days per week</p>	<ul style="list-style-type: none"> Removal of minor weeds and exotics Waste Management relating to: <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste Potential for dust emissions associated with surface spoil handling Uncontrolled Erosion and Sediment run off Site establishment will require clearing of urban natives and exotics Potential noise impacts during site establishment works Potential dust impacts during site establishment works and dust associated with the storage of materials Uncontrolled Erosion and Sediment run off Spills (e.g. fuel, chemicals etc.) Management of potential contamination from previous land use Light spillage from night works impacts upon surrounding residents Heritage Impacts removal of a number of structures associated with the malt works 	<ul style="list-style-type: none"> Construction Flora and Fauna Management Plan Construction Waste Resource Management Plan Construction Air Quality Management Plan Site Specific Erosion and Sediment Control Plans Site- Specific Clearing Permit G40 Clearing and Grubbing Procedure Construction Flora and Fauna Management Plan Construction Noise and Vibration Management Plan Construction Air Quality Management Plan Construction Soil and Water Management Plan Site Specific Erosion and Sediment Control Plans CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol Construction Soil and Water Management Plan This plan, Section 4.8, "light spill" Construction Heritage Management Plan JCIS Methodology for the archaeological test excavations at the former Malt works (D30).
C9	Northern Interchange	<ul style="list-style-type: none"> The Northern Interchange compound will be located adjacent to the M1 Pacific 	<ul style="list-style-type: none"> The compound will be boarded by residential properties to the east and 	<p>Establishment (June 2015 – May 2016)</p>	<p>Establishment</p> <p>The project aims to restrict working hours</p>	<ul style="list-style-type: none"> Removal of vegetation including Blue Gum High Forest EEC 	<ul style="list-style-type: none"> Refer to Appendix A, Flora & Fauna, Mitigation Measures A164-A200

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
	Compound	<p>Motorway/Pennant Hills Road connector and north of Eastbourne Avenue.</p> <ul style="list-style-type: none"> The area currently comprises vegetated vacant land owned by RMS. Vegetation within the site is dominantly Blue Gum High Forest EEC. The patch size of the community within the compound area is greater than one hectare. However, the patch is in poor conditions within an exotic understory. There are several hollow bearing trees within the site. There are some weed and exotic infestations within the site. The mapped soil type within the site is of the Glenorie formation (High soil erosion hazard; localised impermeable highly plastic subsoils, moderately expansive). 	<p>west of the site. Other non-residential sensitive receivers within the vicinity of the compound include:</p> <ul style="list-style-type: none"> Schools (Abbotsleigh School for Girls, Peter Rabbit Preschool, Normanhurst Boys High School & Saint Leo's Catholic College). Hospital (Hammond Care Neringah Hospital). Aged care facilities (Netherby Aged Care Facility, Thomas and Rosetta Agst Aged Care Facility, Bowden Brae Retirement Village, Greenwood Aged Care & Belvedere Community Aged Care Centre). There will be some patches of Blue Gum High Forest EEC and hollow bearing trees remaining (dominantly to the South of the site) after the compound is established. The M1 Pacific Motorway borders the northern side of the site. Several Heritage listed (local) homes are to the East of the site, with one directly neighbouring the site. 	<ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls. Further site investigations. Nest box installation. Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Traffic and environmental controls; Installation of gates and internal roads. Site preparation including: <ul style="list-style-type: none"> Demolition of structures; Clearing, grubbing and vegetation removal. Protection of existing services. Installation of new services (including HV and kiosk), drainage and communications. Commencement of construction of 3m to 5m high construction noise wall around boundaries closest to properties as per layout Earthwork activities comprising: <ul style="list-style-type: none"> Piling platform preparation. Cut and fill activities up to 8m to reach construction levels. Site installation involving: <ul style="list-style-type: none"> Foundations and sealing of surfaces. Staff amenity structures and fit out. Workshop structures and fit out. Water treatment plant and water tank including fit out. Installation of fuel and chemical storage activities. Formalisation of on-site car parking. Formalisation of haul roads and connection to M1 Motorway, including intersection. Noise shed installation comprising: <ul style="list-style-type: none"> Foundations, rock bolting and drainage. Weigh bridge and wheel wash installation. Steelwork and installation of wall panels. Installation of flashing, doors and ancillary structures. Crane install and fit out of structure. Ventilation equipment, including 	<p>for site establishment between:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste <p>Potential for dust emissions associated with surface spoil handling and storage of materials</p> <p>Potential noise impacts during site establishment works</p> <p>It is predicted that approximately 15 sensitive receivers may be highly noise affected during the daytime prior to the installation of the noise walls around the compound assuming a worst case scenario.</p> <p>Uncontrolled Erosion and Sediment runoff</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts upon surrounding residents</p> <p>Visual Impact of construction site, including hoardings. Removal of vegetation Blue Gum High Forest EEC.</p> <p>Operation Standard construction hours with the exception of School drop off / pick up periods of:</p> <ul style="list-style-type: none"> 8am – 9:30am 2:30pm – 4pm. <p>Until 29 April 2016.</p> <p>Heavy vehicle use of local roads to access the site (15-18 heavy vehicle per week on average). Only the local roads currently in use for site establishment would be used. These include:</p> <ul style="list-style-type: none"> Eastbourne Avenue, Wahroonga Hinemoa Avenue, Wahroonga Havilah Avenue, Wahroonga Hewitt Avenue, Wahroonga, <p>These routes are shown in Appendix C of this document</p>	<p>Refer to Appendix A - Reference: Waste/Hazardous Materials, Mitigation Measures A229-232</p> <p>Refer to Appendix A – Reference: Air Quality, Mitigation Measures, A213 – A225</p> <p>Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121 – A127</p> <p>Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201 - A207</p> <p>Refer to Appendix A – Reference: Waste/Hazardous Materials, Mitigation Measures A229 – A232</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p> <p>The CEMP master document and Sub plans.</p> <p>In relation to haulage routes, the “site establishment” routes (Set 1).as identified in Appendix C of the Traffic Management and Safety Plan apply.</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<p>fans.</p> <ul style="list-style-type: none"> Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> Fuel storage Site sealing Chemical storage Hazardous material storage Stockpile/laydown 			
				<p>Operation (December 2015 – June 2020)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include: <ul style="list-style-type: none"> Operation of staff amenities, parking and site infrastructure generally. Deliveries. Stockpile/laydown. Removal of spoil. Shaft excavation, piling and blasting M1 Portal construction, including cut and cover and decline tunnels. 24 hour tunnelling site. Concrete deliveries Shotcrete install. Operation of Water treatment plants (upon commencement of tunnelling activities). Tunnelling support activities. Fuel storage (30,000 litres). Chemical storage. Storage of plant and equipment not in use. Site rehabilitation/ landscaping <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of staff amenities Site rehabilitation and landscaping 	<p>Operation 24 hours/7 days per week</p>	<p>Management of spoil from tunnelling and shaft excavation</p> <p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste <p>General Construction waste</p> <p>Noise and vibration from shaft excavation (e.g blasting), tunnelling activities, stockpile management and deliveries</p> <p>Potential for dust emissions associated with surface spoil handling</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Site establishment will require clearing of urban natives and exotics</p> <p>Potential noise impacts during site establishment works</p> <p>Potential dust impacts during site establishment works and dust associated with the storage of materials</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts upon surrounding residents</p>	<p>Construction Soil and Water Management Plan</p> <p>Spoil Management Strategy</p> <p>Construction Waste Resource Management Plan</p> <p>Construction Noise and Vibration Management Plan inclusive of Blast Management Strategy</p> <p>Construction Air Quality Management Plan</p> <p>Site Specific Erosion and Sediment Control Plans</p> <p>Site- Specific Clearing Permit</p> <p>G40 Clearing and Grubbing Procedure</p> <p>Construction Flora and Fauna Management Plan</p> <p>Nest Box Management Plan</p> <p>Construction Noise and Vibration Management Plan</p> <p>Construction Air Quality Management Plan</p> <p>Construction Soil and Water Management Plan</p> <p>Site Specific Erosion and Sediment Control Plans</p> <p>CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol</p> <p>Construction Soil and Water Management Plan</p> <p>This plan, Section 4.8, "light spill"</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
						Visual Impact of construction site, including hoardings.	Site Establishment - Community Strategy Sub Plan
C10	Bareena Avenue Compound (Northern Ventilation Compound)	<ul style="list-style-type: none"> The Bareena Avenue Compound would be located on the corner of Bareena Avenue and Woonona Avenue North in Wahroonga. The site is also positioned on the western side of the M1 Pacific Motorway. The site currently comprises of residential properties. Vegetation within the site comprises of urban natives and exotics. Hollow bearing trees have also been identified. There are recordings of the threatened species <i>Syzigium paniculatum</i> within and adjacent to the site. The site is located within the Wahroonga North Heritage Conservation Area. The area is part of a larger landscape of existing roads, houses and vegetation. It is important as a reference site for Hornsby, particularly in relation to the early development of the area. The area has potential to reveal its pre-Victorian development and use through research. The heritage conservation area demonstrates the post 1892 residential development of the area, exhibiting built and landscape qualities that are becoming rare within Hornsby and which are endangered by continuing unsympathetic development. The mapped soil type within the area is of the Lucas Heights formation (Stony soils, low fertility, low available water capacity) 	<ul style="list-style-type: none"> The site is located within and surrounded by the Wahroonga North Heritage Conservation Area. The area is part of a larger landscape of existing roads, houses and vegetation. It is important as a reference site for Hornsby, particularly in relation to the early development of the area. The area has potential to reveal its pre-Victorian development and use through research. The heritage conservation area demonstrates the post 1892 residential development of the area, exhibiting built and landscape qualities that are becoming rare within Hornsby and which are endangered by continuing unsympathetic development. Two heritage properties are located immediately opposite the proposed northern ventilation facility. The site is within a residential area. The M1 Pacific Motorway is to the east of the site. Vegetation surrounding the site comprises of urban natives and exotics. There are recordings of the threatened species <i>Syzigium paniculatum</i> within and adjacent to the site. 	<p>Establishment (October 2015 – May 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls. Nest box installation. Delineation of sensitive areas and temporary fencing. Site Access including: <ul style="list-style-type: none"> Traffic and environmental controls; Installation of gates and internal roads (existing Bareena Avenue road surface will be retained as much as possible to minimise disturbance and retain existing landscape). Site preparation including: <ul style="list-style-type: none"> Demolition of structures; Clearing, grubbing and vegetation removal. Installation of new services including power, drainage and communications. Commencement of construction of 3m-4m high construction hoarding around boundaries Earthwork activities comprising: <ul style="list-style-type: none"> Cut and fill activities up to 5m to reach construction levels. Site installation involving: <ul style="list-style-type: none"> Foundations and sealing of surfaces. Staff amenity structures and fit out. Workshop structures and fit out. Installation of fuel and chemical storage activities. Formalisation of on-site car parking. Formalisation of haul roads and connections to M1 Motorway. Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> Fuel storage Site sealing Chemical storage Hazardous material storage Stockpile/laydown. 	<p>Establishment</p> <ul style="list-style-type: none"> 7am – 6pm Monday Friday 8am – 1pm Saturday No works on Sundays or Public holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	Removal of vegetation	Refer to Appendix A, Flora & Fauna , Mitigation Measures A164 – A200
						Waste Management relating to: <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste 	Refer to Appendix A Reference: Waste/Hazardous Materials , Mitigation Measures A229-A232
						Potential for dust emissions associated with surface spoil handling and storage of materials	Refer to Appendix A – Reference: Air Quality , Mitigation Measures, A213 – A225
						Potential noise impacts during site establishment works	Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A53 A86
						Uncontrolled Erosion and Sediment run off	Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201-A2-7
						Spills (e.g. fuel, chemicals etc.)	Refer to Appendix A – Reference: Waste/Hazardous Materials , Mitigation Measures A229 – A232
						Light spillage from night works impacts upon surrounding residents	Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228 ,
						Visual Impact of construction site, including hoardings.	Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228 ,
						Removal of vegetation urban natives, exotics and potentially the <i>Syzigium paniculatum</i> .	Construction Flora and Fauna Management Plan
						Management of spoil from tunnelling and	Construction Soil and Water
				<p>Operation (February 2016 – June 2020)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved Construction 	<p>Operation</p> <ul style="list-style-type: none"> 7am – 6pm Monday Friday 8am – 1pm 		

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<p>Environmental Management Plan (as per D50). Key activities include:</p> <ul style="list-style-type: none"> Operation of staff amenities, parking and site infrastructure generally. Laydown areas may be used as overflow parking, and additional parking will be available at Pioneer Avenue Compound and Junction Road Compound, with bus services to be provided to site, if required. Deliveries. Stockpile/laydown. Removal of spoil. Portal excavation and piling Access to portal Ventilation facility Building Fit out of tunnel ventilation, mechanical and electrical equipment Fuel storage (30,000 litres). Storage of plant and equipment not in use. Chemical storage. <p><u>Transition to Permanent Operational Facility</u></p> <ul style="list-style-type: none"> Operational ventilation outlet Site rehabilitation and landscaping as per UDLP. 	<p>Saturday</p> <ul style="list-style-type: none"> No works on Sundays or Public holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>shaft excavation</p> <p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste <p>General Construction waste</p> <p>Potential for dust emissions associated with surface spoil handling</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Site establishment will require clearing of urban natives and exotics</p> <p>Potential noise impacts during site establishment works</p> <p>Potential dust impacts during site establishment works and dust associated with the storage of materials</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts upon surrounding residents</p> <p>Visual Impact of construction site, including hoardings.</p>	<p>Management Plan</p> <p>Spoil Management Strategy</p> <p>Construction Waste Resource Management Plan</p> <p>Construction Air Quality Management Plan</p> <p>Site Specific Erosion and Sediment Control Plans</p> <p>Site- Specific Clearing Permit</p> <p>G40 Clearing and Grubbing Procedure</p> <p>Construction Flora and Fauna Management Plan</p> <p>Nest Box Management Plan</p> <p>Construction Noise and Vibration Management Plan</p> <p>Construction Air Quality Management Plan</p> <p>Construction Soil and Water Management Plan</p> <p>Site Specific Erosion and Sediment Control Plans</p> <p>CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol</p> <p>Construction Soil and Water Management Plan</p> <p>This plan, Section 4.8, "light spill"</p> <p>Site Establishment Community Strategy Sub Plan</p>
C11	Junction Road Compound	<ul style="list-style-type: none"> The Junction Road compound would be located on the eastern side of the M1 Pacific Motorway, north of Junction Road. The compound will have an access/egress from/to Coonanbarra Road, as well as directly from/to the M1 Pacific Motorway, 	<ul style="list-style-type: none"> The vegetation surrounding the site comprises of Native vegetation (some of which is poor quality) along with weeds and exotics. The site is positioned within a residential area, with neighbouring residential properties directly to the East. Cockle creek runs into the 	<p>Establishment (January 2016– June 2016)</p> <ul style="list-style-type: none"> Installation of Environmental Controls including: <ul style="list-style-type: none"> Erosion and sediment controls; Environmental investigations and testing. Delineation of sensitive areas and temporary fencing. Site Access including: 	<p>Establishment</p> <ul style="list-style-type: none"> 7am – 6pm Monday Friday 8am – 1pm Saturday No works on Sundays or Public holidays <p>(Some works may need to occur outside</p>	<p>Removal of vegetation</p> <p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste <p>Potential for dust emissions associated with surface spoil handling and storage of materials</p>	<p>Refer to Appendix A, Flora & Fauna, Mitigation Measures A164 – A200</p> <p>Refer to Appendix A – Mitigation Measure, Southern Interchange Compound A2</p> <p>Refer to Appendix A – Reference: Air Quality, Mitigation Measures, A213 – A225</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
		<p>which will significantly reduce heavy vehicle impacts on Coonanbarra Road.</p> <ul style="list-style-type: none"> The site is on vacated vegetated land, part of which is located within the existing road reserve of the M1 Pacific Motorway, north of Junction Road. The vegetation within the site comprises of Native vegetation (some of which is poor quality) along with weeds and exotics. Cockle creek runs through the proposed site. Cockle creek comprises of a small freshwater watercourse system. The mapped soil type within the area is of the Lucas Heights formation (Stony soils, low fertility, low available water capacity) 	<p>site from the South and continues through to the North. Cockle creek comprises of a small freshwater watercourse system.</p> <ul style="list-style-type: none"> The M1 borders the site to the East. There is potential microbat habitat within the cockle creek / Junction road culvert to the south of the site. Carrington Park is a recreational park situated to the North of the site. The mapped soil type within the area is of the Lucas Heights formation (Stony soils, low fertility, low available water capacity) 	<ul style="list-style-type: none"> Traffic controls; Boundary fencing and security. Commencement of construction of 3m high construction hoarding around boundaries Connections to adjoining work areas. Installation of gates and internal roads. Site preparation including: <ul style="list-style-type: none"> Demolition of all non-retained structures Clearing, grubbing and vegetation removal. Installation of services, drainage and connection on adjoining road reserve. Earthwork activities comprising: <ul style="list-style-type: none"> Cut and fill activities up to 5m to reach levels for the site. Temporary diversion of Cockle Creek and installation of crossings. Sealing of areas. Site installation involving: <ul style="list-style-type: none"> Staff amenity structures and fit out. Installation of fuel storage. Fit out, commissioning and install of remaining site infrastructure including <ul style="list-style-type: none"> Fuel storage Site sealing Chemical storage Hazardous material storage Stockpile/laydown. 	<p>of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Potential noise impacts during site establishment works</p> <p>It is predicted that approximately 7 sensitive receivers may be highly noise affected during the daytime prior to the installation of the noise walls around the compound assuming a worst case scenario.</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Light spillage from night works impacts upon surrounding residents</p> <p>Visual Impact of construction site, including hoardings.</p>	<p>Refer to Appendix A - Reference: Noise and Vibration Mitigation Measures, A121-127</p> <p>Refer to Appendix A – Reference Soil and Water Mitigation Measures, A201-A207</p> <p>Refer to Appendix A – Reference: Waste/Hazardous Materials, Mitigation Measures A229 – A232</p> <p>Refer to Appendix A – Reference: Visual Amenity, Mitigation Measures A226 – A228,</p>
				<p>Operation (May 2016 – June 2020)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include: <ul style="list-style-type: none"> Operation of staff amenities, parking and site infrastructure generally. Deliveries. Craneage Storage of plant not in use. Stockpile/laydown. Fuel storage (30,000 litres). Chemical storage. <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of site amenities Site rehabilitation and landscaping. 	<p>Operation</p> <ul style="list-style-type: none"> 7am – 6pm Monday - Friday 8am – 1pm Saturday No works on Sundays or Public holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Removal of native vegetation, weeds and exotics</p> <p>Waste Management relating to:</p> <ul style="list-style-type: none"> Demolition of site buildings Green waste General Construction waste <p>Potential for dust emissions associated with surface spoil handling</p> <p>Potential noise impacts during site establishment works</p> <p>Potential dust impacts during site establishment works and dust associated with the storage of materials</p> <p>Uncontrolled Erosion and Sediment run off</p> <p>Incorrect installation of temporary creek crossing and Cockle Creek realignment.</p>	<p>Site- Specific Clearing Permit</p> <p>G40 Clearing and Grubbing Procedure</p> <p>Construction Flora and Fauna Management Plan</p> <p>Construction Waste Resource Management Plan</p> <p>Construction Air Quality Management Plan</p> <p>Construction Noise and Vibration Management Plan</p> <p>Construction Air Quality Management Plan</p> <p>Construction Soil and Water Management Plan</p> <p>Site Specific Erosion and Sediment</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
						Spills (e.g. fuel, chemicals etc.)	Control Plans CEMP, Appendix 8, Environmental Incident / Emergency Response Protocol Construction Soil and Water Management Plan.
C3	Barclay Road Compound	<ul style="list-style-type: none"> The Barclay Road Compound would be located on the corner on Barclay Road and Perry Street, North Rocks. The site is located within the road reserve, immediately south of the Hills M2 Motorway. The site was previously utilised for construction of the Hills M2 Motorway, and the subsequent M2 Upgrade. The site currently comprises vacant, partially vegetated land. Vegetation on the site comprises urban native / exotic vegetation, and Coastal Shale-Sandstone Forest in poor condition, with some already cleared areas. No sensitive areas, such as threatened species (or associated habitat), threatened ecological communities or hollow-bearing trees are known to occur on the site. No listed or known Aboriginal or non-Aboriginal heritage areas or areas of archaeological sensitivity occur within or immediately adjacent to the site. The mapped soil type within the area is of the Lucas Heights formation 	<ul style="list-style-type: none"> The proposed Barclay Road Compound is located adjacent to the Hills M2 Motorway, Barclay Road, Perry Street, and residential properties on Perry Street. The Muirfield Golf Course is located on the opposite side of Perry Site. The nearest sensitive receivers are residential properties on Perry Street. 	<p>Establishment (Jan 2016 – Mar 2016)</p> <ul style="list-style-type: none"> Installation of environmental controls including: <ul style="list-style-type: none"> further site investigations installation of erosion and sediment controls delineation of sensitive areas (none identified to date) and temporary fencing. Site access including: <ul style="list-style-type: none"> implementation of traffic controls installation of gates and internal roads local road connection Site preparation including: <ul style="list-style-type: none"> clearing, grubbing and vegetation removal protection of existing services installation of new services, drainage and communications commencement of construction of 3m high hoarding around the south-western site boundary Earthwork activities including: <ul style="list-style-type: none"> cut and fill activities, including terracing and partial removal of the existing spoil mound Site installation including: <ul style="list-style-type: none"> stabilisation of surfaces installation and fit out of staff amenities and workshop structures installation of hazardous materials storage 	<p>Establishment</p> <p>The Project aims to restrict working hours for site establishment to:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday No works on Sundays or Public Holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	Site establishment would require clearing of urban native / exotic vegetation, and Coastal Shale-Sandstone Forest in poor condition.	Refer to AFMP Appendix A: Flora and Fauna Mitigation Measures A164 – A200
						Management of spoil from previous use of the site.	Refer to AFMP Appendix A: Waste/Hazardous Materials Mitigation Measures A229 – A232
						Waste management relating to: <ul style="list-style-type: none"> green waste construction waste with potentially contaminated material in it (asbestos containing material). general construction waste 	Refer CEMP B6: Construction Soil and Water Management Plan (CSWMP) Mitigation Measures HS4 – HS6.
						Potential for dust emissions associated with site establishment works and storage of materials.	Refer to AFMP Appendix A: Air Quality Mitigation Measures A213 – A225
						Potential noise impacts during site establishment works.	Refer to AFMP Appendix A: Noise and Vibration Mitigation Measures A121 – A127
						Increased traffic due to heavy and light vehicles access to and egress from the ancillary facility.	Refer to AFMP Appendix A: Traffic and Access Mitigation Measures A155-A163
						Uncontrolled erosion and sediment run off.	Refer to AFMP Appendix A: Soil and Water Mitigation Measures A201-A207
						Spills (e.g. fuel, chemicals etc.).	Refer to AFMP Appendix A: Waste/Hazardous Materials Mitigation Measures A229-A232

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
		(Stony soils, low fertility, low available water capacity). <ul style="list-style-type: none"> A spoil mound, associated with construction of the Hills M2 Motorway, occurs on the north-eastern portion of the site. 				Light spillage from night works impacting upon surrounding residents.	Refer to AFMP Appendix A: Visual Amenity, Mitigation Measures A226 – A228
						Visual impact of ancillary facility, including hoarding.	Refer to AFMP Appendix A: Visual Amenity, Mitigation Measures A226 – A228
				<p>Operation (Feb 2016 - June 2022)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved CEMP (as per D50). Key activities include: <ul style="list-style-type: none"> operation of staff amenities, parking and site infrastructure generally deliveries stockpile / laydown fuel storage (10,000 litres) chemical storage storage of plant and equipment <p>Laydown, storage and carpark areas would be interchangeable throughout operation of the site.</p> <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of site amenities Site rehabilitation and landscaping. 	<p>Operation</p> <p>The Project aims for site operation working hours to be:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday No works on Sundays or Public Holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Noise and vibration from site activities and deliveries.</p> <p>Increased traffic due to heavy and light vehicles access to and egress from the ancillary facility.</p> <p>Spills (e.g. fuel, chemicals etc.).</p> <p>Light spillage from operating the facility out of hours.</p> <p>Visual impact of construction site, including hoardings.</p>	<p>Construction Noise and Vibration Management Plan (CNVMP)</p> <p>Traffic Management and Safety Plan (TMSP)</p> <p>CEMP Construction Soil and Water Management Plan (CSWMP)</p> <p>AFMP Section 7.8, “Light Spill”</p> <p>Community Communication Strategy (CCS)</p>
	Pearce’s Corner Compound	<ul style="list-style-type: none"> The Pearce’s Corner Compound will be located at the junction of Pennant Hills Road and Pacific Highway at Wahroonga. The surrounding area is predominantly residential, and is situated close to three heavily trafficked roadways: Pennant Hills Road, Pacific Highway 	<ul style="list-style-type: none"> The compound is bordered by Pennant Hills Road to the east, Russell Avenue to the south and residential properties to the north and the west which are in close proximity to the compound. Non-residential sensitive receivers identified nearby include St Paul’s Anglican Church at 2 Pacific 	<p>Establishment (Feb 2016 – Sept 2016)</p> <ul style="list-style-type: none"> The site will be established as shown in Stage 1 site layout in App. B of this plan. The compound will transition to the Stage 2 site layout (App. B) as road widening works progress. Installation of environmental controls including: 	<p>Establishment</p> <p>The Project aims to restrict working hours for site establishment to:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday No works on 	<p>Site establishment would require clearing of urban native / exotic vegetation.</p> <p>Management of spoil from previous use of the site.</p> <p>Waste management relating to:</p> <ul style="list-style-type: none"> green waste construction waste with potentially contaminated 	<p>Refer to AFMP Appendix A: Flora and Fauna Mitigation Measures A164-A200</p> <p>Refer to AFMP Appendix A: Waste/Hazardous Materials Mitigation Measures A229-A232</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
		<p>and the M1 Pacific Motorway.</p> <ul style="list-style-type: none"> The compound site is located on properties acquired by RMS to provide for the widening of Pennant Hills Road between Russell Avenue and the Pacific Highway at Wahroonga. Vegetation on the site comprises urban native / exotic vegetation. No sensitive areas, such as threatened species (or associated habitat), threatened ecological communities or hollow-bearing trees are known to occur on the site. No listed or known Aboriginal heritage areas or areas of archaeological sensitivity occur within or immediately adjacent to the site. The EIS states that one heritage item, the garden at 1 Pacific Highway (Hornsby LEP Ref: I762), would be fully and directly impacted from surface works as part of the widening of Pennant Hills Road and associated service relocations. As part of these works, the Canary Island Palms, which form part of the garden at 1 Pacific Highway, have been identified as requiring relocation. The EIS has concluded that impacts to this item are likely to be significant. 	<p>Highway, as well as Peter Rabbit Community Preschool on Isis Street and Anula Place Recreation Park.</p>	<ul style="list-style-type: none"> installation of erosion and sediment controls delineation of sensitive areas and temporary fencing. Site access including: <ul style="list-style-type: none"> implementation of traffic controls installation of gates and internal roads Site preparation including: <ul style="list-style-type: none"> protection of existing services installation of new services, drainage and communications commencement of construction of 3 and 4m high hoarding around the north-western site boundary as indicated in the site layout Stage 1 in App B. Earthwork activities including: <ul style="list-style-type: none"> cut and fill activities for site levelling and terracing; stabilising surfaces; establishment of laydown areas; & establishing parking areas. Site installation including: <ul style="list-style-type: none"> installation and fit out of staff amenities, installation of hazardous materials storage shed, and general storage sheds. 	<p>Sundays or Public Holidays (Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<ul style="list-style-type: none"> material in it (asbestos containing material). <ul style="list-style-type: none"> general construction waste 	<p>Refer CEMP B6: Construction Soil and Water Management Plan (CSWMP) Mitigation Measures HS4 – HS6.</p>
						<p>Potential for dust emissions associated with site establishment works and storage of materials.</p>	<p>Refer to AFMP Appendix A: Air Quality Mitigation Measures A213-A225</p>
						<p>Potential noise impacts during site establishment works.</p>	<p>Refer to AFMP Appendix A: Noise and Vibration Mitigation Measures A121-A127</p>
						<p>Increased traffic due to heavy and light vehicles access to and egress from the ancillary facility.</p>	<p>Refer to AFMP Appendix A: Traffic and Access Mitigation Measures A155-A163</p>
						<p>Uncontrolled erosion and sediment run off.</p>	<p>Refer to AFMP Appendix A: Soil and Water Mitigation Measures A201-A207</p>
						<p>Spills (e.g. fuel, chemicals etc.).</p>	<p>Refer to AFMP Appendix A: Waste/Hazardous Materials Mitigation Measures 229-A232</p>
						<p>Light spillage from night works impacting upon surrounding residents.</p>	<p>Refer to AFMP Appendix A: Visual Amenity, Mitigation Measures A226 – A228</p>
						<p>Visual impact of ancillary facility, including hoarding.</p>	<p>Refer to AFMP Appendix A: Visual Amenity, Mitigation Measures A226 – A228</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
				<p>Operation (Feb 2016 - June 2020)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved CEMP (as per D50). Key activities include: <ul style="list-style-type: none"> operation of staff amenities, parking and site infrastructure generally deliveries stockpile / laydown fuel storage (10,000 litres) chemical storage storage of plant and equipment <p>Laydown, storage and carpark areas would be interchangeable throughout operation of the site.</p> <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of site amenities. Site rehabilitation and landscaping. 	<p>Operation</p> <p>The Project aims for site operation working hours to be:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday No works on Sundays or Public Holidays <p>(Some works may need to occur outside of standard construction hours. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Noise and vibration from site activities and deliveries.</p> <p>Increased traffic due to heavy and light vehicles access to and egress from the ancillary facility.</p> <p>Spills (e.g. fuel, chemicals etc.).</p> <p>Light spillage from operating the facility out of hours.</p> <p>Visual impact of construction site, including hoardings.</p>	<p>Construction Noise and Vibration Management Plan (CNVMP)</p> <p>Traffic Management and Safety Plan (TMSP)</p> <p>CEMP</p> <p>Construction Soil and Water Management Plan (CSWMP)</p> <p>AFMP Section 7.8, "Light Spill"</p> <p>Community Communication Strategy (CCS)</p>
C12	Mt Kuring-Gai Batch Plant	<ul style="list-style-type: none"> The batching plant will be located at 5 Beaumont Road, Mount Kuring-Gai. The site is owned by Hornsby Shire Council. The site is currently used by HSC for green waste management and street sweeper waste management. The site currently comprises some hardstand and some partially vegetated land. Vegetation on the site comprises Bloodwood-Scribbly Gum Woodland mainly in the south-western corner with pockets of noxious weeds and exotics primarily on the northern boundary of the site 	<ul style="list-style-type: none"> The proposed batching plant location is adjacent to the Pacific Highway and Beaumont Roads to the east and north. A commercial premise is located approximately 30 metres to the west of the batching plant location. Berowra Valley National Park is located directly to the south of the batching plant location. The nearest residential receivers are located on the Pacific Highway, approximately 550 metres to the south of the batching plant location. 	<p>Establishment (June 2016 –August 2016)</p> <ul style="list-style-type: none"> Installation of environmental controls including: installation of erosion and sediment controls delineation of any sensitive areas (including habitat tree) and temporary fencing. Site access including: implementation of traffic controls installation of gates and delineation to Council areas. local road connection Site preparation including: clearing, grubbing and vegetation removal protection of existing services installation of new services, drainage and communications Earthwork activities including: cut and fill rock breaking grade reshaping for drainage. Site installation including: stabilisation of surfaces Piling for batch plant foundations 	<p>Establishment</p> <p>The project will operate under standard construction hours for site establishment:</p> <ul style="list-style-type: none"> 7am – 6pm Monday to Friday 8am – 1pm Saturday No works on Sundays or Public Holidays <p>(Note; some works may need to occur outside of standard construction hours due to safety or road network restrictions. These works will be carried out in accordance with the requirements of the project EPL).</p>	<p>Site establishment will require clearing of native and exotic vegetation.</p> <p>Management of spoil from previous use of the site and from minor earthworks for drainage reshaping.</p> <p>Waste management relating to: green waste general construction waste</p> <p>Potential for dust emissions associated with site establishment works and storage of materials.</p> <p>Potential minor noise impacts during site establishment works.</p> <p>Traffic</p>	<p>FFMP</p> <p>WRMP</p> <p>WRMP</p> <p>AQMP</p> <p>CNVMP</p> <p>TMSP and site specific TMP</p>

No.	Site Name	Existing Site Characteristics	Surrounding Environmental Characteristics	Key Work Activities (& Indicative Operational Period)	Hours of Operation	Key Potential Environmental Impacts	Key Environmental Controls (refer to the following documents)
		<ul style="list-style-type: none"> One hollow bearing tree identified on the south-western boundary of the site No sensitive areas, such as threatened species (or associated habitat), threatened ecological communities are known to occur on the site. No listed or known Aboriginal or non-Aboriginal heritage areas or areas of archaeological sensitivity occur within or immediately adjacent to the site. 		<ul style="list-style-type: none"> installation and fit out of staff amenities and office structures installation of hazardous materials storage installation of batching equipment, silo's etc. 		<p>Uncontrolled erosion and sediment run off</p> <p>Spills (e.g. fuel, chemicals etc.).</p> <p>Light spillage / sky glow from night works impacts upon surrounding residents.</p>	<p>SWMP</p> <p>CEMP SWMP</p> <p>Attachment A of this document</p>
				<p>Operation (August 2016 – December 2019)</p> <ul style="list-style-type: none"> Operation of the site in accordance with the approved Construction Environmental Management Plan (as per D50). Key activities include: <ul style="list-style-type: none"> Concrete batching operations operation of staff amenities, parking concrete agi truck movements deliveries raw material stockpiles fuel storage chemical storage storage of plant and equipment not in use. <p>Decommissioning</p> <ul style="list-style-type: none"> Removal of site amenities. Site rehabilitation and landscaping. 	<p>Operation</p> <p>The batching plant will be operated on a 24 hours basis for up to 7 days per week dependent on concrete demand from the NorthConnex project.</p>	<p>Noise and vibration from site activities and haulage.</p> <p>Dust</p> <p>Traffic</p> <p>Spills (e.g. fuel, chemicals etc.)</p> <p>Run-off of cementitious material and chemicals</p> <p>Light spillage from night works impacts upon surrounding residents.</p> <p>Noise and vibration from site activities and haulage.</p>	<p>CNVMP / Attachment A of this document/ Attachment C</p> <p>AQMP / Attachment A of this document</p> <p>TMSP</p> <p>CEMP SWMP</p> <p>SWMP</p> <p>Attachment A of this document</p> <p>CNVMP / Attachment A of this document/ Attachment C</p>