

Environmental Assessment Review Checklist

Background:

Development in NSW is assessed in accordance with the provisions of the *Environmental Planning and Assessment Act 1979* (EP&A Act) and the *Environmental Planning and Assessment Regulation 2000* (EP&A Regulation). Part 5 of the EP&A Act provides for control of 'activities' that do not require approval or development consent under Part 4 of the EP&A Act, ensuring that public authorities fully consider environmental issues before they undertake or approve activities that do not require development consent.

Under Part 5 of the EP&A Act, a determining authority is defined as:

'a Minister or public authority and, in relation to any activity, means the Minister or public authority by or on whose behalf the activity is or is to be carried out or any Minister or public authority whose approval is required in order to enable the activity to be carried out.'

Shoalhaven Water is a Local Water Utility under the Water Management Act 2000 and a Business Unit of Shoalhaven City Council. Shoalhaven Water is therefore the proponent and determining authority for proposals carried out under their direction, under Section 110B of the EP&A Act.

Purpose:

This document has been developed to assist Shoalhaven Water (SW) in determining what level of environmental assessment is required for any given proposed works, and should a Review of Environmental Factors (REF) be required to be completed (development permitted without consent), the checklist provides prompts as to environmental factors that should be considered, including specialist input where required.

The checklist has been prepared to assist / guide Shoalhaven Water in the assessment of potential environmental impacts associated with proposed works. GHD note that the checklist is not however intended to replace the need to complete an environmental assessment.

Responsibility:

This environmental checklist shall be completed in consultation with a Shoalhaven City Council (SCC) Environmental Advisor. The Project Manager and Environmental Advisor must sign off on completion of this checklist. It is the responsibility of SW / SCC to periodically update this Checklist Template document to reflect any changes in legislative requirements and regulations. Also SCC / SW must ensure that all environmental requirements and considerations are addressed prior to undertaking activities or works that may affect the environment.

Procedure:

This *Environmental Management Checklist* consists of the following three parts, to be completed in order as required:

Part A – Proposal location and brief description of the works

Part B – Legislative considerations

Part C – Environmental assessment considerations

Final completion – Sign-off

Part A – Proposal location and description of proposed works

Date: 20/06/2024

Completed by: Alex Pozzer

Project Name	Water Mains Replacement – Separable Portion 5: Albert Street	Location(s):	Albert Street, Berry
Date of proposed work	TBC		
Summary description of proposed works	The objective of this engagement is to replace water mains that have been identified by Shoalhaven Water Asset Management team. This desktop REF covers approximately 460m of a water reticulation main along Albert Street, Berry to be installed.		

Site Location Plan



Part B – Legislative considerations

D Date: 20/06/2024

Completed by: Alex Pozzer

Step 1 – Exempt Development

Under section 76 of the Act, exempt development is development of a specified class or description that is of minimal environmental impact and may be carried out without the need for development consent under Part 4 of the Act or for assessment under Part 5 of the Act.

1.1 Does the proposal satisfy the definition of exempt development in an environmental planning instrument (refer to guidance notes below)? Yes₁ No₂

₁ Complete Section 1.2 and 1.3.

₂ Proceed to Part B Step 2.

Guidance Note: *State Environmental Planning Policy (Infrastructure) 2007 (ISEPP)* - Refer to the following regarding development exemptions:

- Sewage Systems – refer to requirements under Clause 107 of ISEPP
- Water Supply Systems – refer to requirements under Clause 127 of ISEPP
- For works not associated with sewage systems or water supply systems, refer to general exempt development codes in *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*

1.2 Is the proposal located on land which is critical habitat, part of a wilderness area or contain a state listed heritage item? Yes₅ No₃

₃ Complete Section 1.3 below.

1.3 Is the proposal structurally adequate and meet any relevant deemed-to-satisfy provisions of the Building Code of Australia? Yes₄ No₅

₄ Provide further detail below with regards to the exemption. No further assessment is required.

₅ Provide further detail below with regards to the relevant legislation and proceed to Part C for environmental assessment considerations.

Further details regarding proposal exemption (If applicable)

Relevant legislation:	Relevant Clause:
Description / relevance to proposal:	

Step 2 – Development without Consent	Not required if development deemed to be exempt (refer to Step 1)
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ISEPP includes provisions which permit certain developments to be undertaken without development consent, thereby enabling it to be assessed under Part 5 of the EP&A Act. In the case of development without consent, the determining authority needs to be satisfied that the potential environmental impacts associated with the construction and operation of the proposal have been assessed to the fullest extent possible. A Review of Environmental Factors (REF) is required if the determining authority considers that the proposal is unlikely to have a ‘significant’ impact on the environment. If a determining authority decides the proposal would be likely to significantly affect the environment, it must obtain and consider an Environmental Impact Statement (EIS).

2.1	Does the proposal satisfy the definition of development permitted without consent (refer to guidance notes below)?	<input checked="" type="checkbox"/> Yes ⁶	<input type="checkbox"/> No ⁷	<input type="checkbox"/> NA
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⁶ Complete Section 2.2 and 2.3 below.

⁷ Additional planning approval pathways may need to be considered. Consult Council Planner or external consultant.

Guidance Note: *State Environmental Planning Policy (Infrastructure) 2007 (ISEPP)* - Refer to the following regarding development permissibility:

- Sewage Systems – refer to requirements under Clause 106 of ISEPP
- Water Supply Systems – refer to requirements under Clause 125 of ISEPP
- For other works not associated with sewage systems or water supply systems, refer to specific activities under Part 3 of ISEPP or provisions set out in the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

2.2	Is the proposal likely to significantly affect the environment?	<input type="checkbox"/> Yes ⁷	<input checked="" type="checkbox"/> No ⁸
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⁸ Complete Section 2.3 below.

2.3	Is the proposal to be carried out on land that is critical habitat, or is the proposal likely to significantly affect a threatened species, population or ecological community or its habitat?	<input type="checkbox"/> Yes ⁷	<input checked="" type="checkbox"/> No ⁹
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⁹ Provide further detail below with regards to the relevant legislation and proceed to Part C for environmental assessment considerations.

Further details regarding development without consent (If applicable)	
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Relevant legislation: State Environmental Planning Policy	Relevant Clause: 106
Description / relevance to proposal:	
Subclause 1), (a): <i>is carried out by or on behalf of a public authority</i>	

Part C – Environmental Assessment Considerations

Date: 20/06/2024

Completed by: Alex Pozzer

Aspect	Ref.	Consideration	Y/N	Information to be considered	Further actions
Land-use	LU1	What is the current zoned land use of the area of proposed works and what are the nearby land-uses that may be impacted by the proposal?	Y	Local environmental plan (LEP). Topographic maps and site inspections. Identification of sensitive land uses and proximity to the proposal including residential areas, hospitals, aged care facilities, child care centres, schools, etc.	Construction will be taking place within Councils Road Reserve which is zoned as both RE2 – Low Density Residential, and E1 – Local Centre. Surrounding land is RE2 – Low Density Residential, E1 – Local Centre R1 – General Residential, SP2 – Infrastructure (Place of Public Worship, and Educational Establishment), C3 – Environmental Management, RU1 – Rural Production. Noting these works are occurring within the road reserve, there will be minimal impact to residences and other premises. It should also be noted that there is a pre-school located along Albert Street (24 Albert Street), which needs to be considered as part of the planning/design of the works (suggested that additional dust & sound protection be in place in areas close by). Refer to attachment A for map.
	LU2	Will the activities be required to be undertaken within land reserved under the NPW Act (NPWS)?	N	NSW Office of Environment and Heritage (OEH) REF template to be considered for completion – consult with NPWS.	Multiple heritage sites are located adjacent to the alignment (not within Councils road reserve where the main is being constructed) – additional dilapidation records are to be taken of specific heritage locations. Refer to attachment B for map.
	LU3	Is the proposal to be undertaken within or near a National Park, Marine Park, travelling stock route, state forest or conservation area?	N	Specific assessment requirements to be determined based on the location of the proposal on a case by case basis. For works within land reserved under the NPWS Act, refer to LU2 above.	N/A
	LU4	Will the works impact on or be in the vicinity of other services?	Y	A Dial Before You Dig must be undertaken prior to any works commencing in order to locate buried services. Consultation with representative service owners / providers should be undertaken in the design phase of the proposal.	DBYD to be conducted by Contractor where excavation is required. Caution is to be taken when excavation near existing services is occurring.
Soil and geology	SG1	Will the works require excavation? Will the works result in permanent changes to surface slope or topography?	Y	<ul style="list-style-type: none"> Extent of excavation. Proximity to sensitive receivers (including waterways). Duration of the works. Consider if earthworks will affect other structures or prevent right of access. Consideration of Aboriginal heritage impacts (refer to AH1 – AH5). 	Works will include excavations along certain sections to insert the new pipe. Where applicable, appropriate sediment control measures are to be implemented.

Aspect	Ref.	Consideration	Y/N	Information to be considered	Further actions
				Depending on the area of ground that will be disturbed an Erosion and Sediment Control Plan or a Soil and Water Management Plan may be required to be included in the Construction Environmental management Plan (CEMP). Information regarding which is applicable and the requirements can be found in the Blue Book - <i>Erosion and sediment control - Managing Urban Stormwater: Soils and Construction</i> (Landcom, 2004) (the Blue Book).	
	SG2	Are there acid sulfate soils within or immediately adjacent to the boundaries of the work area? And could the works result in the disturbance of acid sulfate soils?	N	<p>Acid sulfate soils (ASS) risk maps - http://www.environment.nsw.gov.au/acidsulfatesoil/riskmaps.htm</p> <p>https://datasets.seed.nsw.gov.au/dataset/acid-sulfate-soils-risk0196c</p> <p>If Acid Sulfate Soils will or may be disturbed an Acid Sulfate Soil Management Plan may be required to be prepared prior to construction in accordance with the Acid Sulfate Soil Manual (Acid Sulfate Soils Management Advisory Committee, 1998) - http://www.planning.nsw.gov.au/rdaguidelines/documents/NSW%20Acid%20Sulfate%20Soils%20Assessment%20Guidelines.pdf</p> <p>This plan is not required as part of the REF but should be mentioned as a requirement.</p>	<p>Land Classified as <i>Class 5 Soil</i>, and as such are not typically found in this area –</p> <p><i>“Works within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres Australian Height Datum and by which the watertable is likely to be lowered below 1 metre Australian Height Datum on adjacent Class 1, 2, 3 or 4 land.”</i></p> <p>Where excavation is required, an Acid Sulphate management plan is required.</p> <p>Refer to Attachment B for ASS map.</p>
	SG3	What are the soil and geology characteristics of the area to be impacted and what implications might this have on the works? i.e. are the soils highly erodible?	N	Relevant geological maps https://resourcesandgeoscience.nsw.gov.au/miners-and-explorers/geoscience-information/products-and-data/maps/geological-maps	Minor risk of erosion where open trench excavations occur.
	SG4	Are the works located within an area known to have elevated soil salinity?	N	https://datasets.seed.nsw.gov.au/anzlic_dataset/hydrogeological-landscapes-nsw-act/resource/529b86e3-3889-4d07-9398-32e6c3d86e83	Based on Environment NSW data, no salting evidence found nearby.
	SG5	Are there any known or potential areas of contamination in the area to be disturbed?	N	<p>EPA contaminated lands register - http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx</p> <p>Historical land uses (historical aerial photos)</p> <p>Licensed premises (Environment Protection Licenses) in the vicinity of the works - http://www.epa.nsw.gov.au/prpoeoapp/</p>	Based on Shoalhaven City Council GIS mapping, the site and surrounding land is not contaminated
Surface water and groundwater	SGW1	Will the proposal require the ground disturbance or vegetation removal within 40 m of any waterway / watercourse?	N	<p>Consideration of a controlled activity approval (NSW Office of Water) - http://www.water.nsw.gov.au/Water-Licensing/Approvals/default.aspx</p> <p>Pursuant to Clause 38 of the Water Management (General) Regulation 2004, public authorities are exempt from the requirements of Section 91 of the Water Management Act 2000.</p>	<p>Renewing existing pipe.</p> <p>Not anticipated to be within 40m of any waterway</p>
	SGW2	Could the works impact upon a drinking water catchment area?	N	<p>Refer to specific requirements of the drinking water authority with regards to restriction of certain activities and necessary approvals and permits.</p> <p>Sydney Catchment Authority - http://www.sca.nsw.gov.au/water/supply/system</p>	
	SGW3	Will pipe flushing activities result in potable water being discharged to	Potential	Sensitivities of receiving waters to be considered. Consideration to be given to de-chlorination of discharge waters if possible, depending on volumes and	Appropriate sanitation to be conducted to ensure water is non-hazardous and able to

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		a waterway?	y	chlorine concentrations. Other factors such as pH and suspended solids should also be considered when assessing impact on receiving waters.	be discharged without impact.
	SGW4	Will the project impact on local surface or groundwater quantity, availability or amenity?	N	Must be a consideration in an Erosion Control Management Plan (if this is required for the water protection). Construction Dewatering Licence (Office of Water) should be consideration (if required for large quantities).	
	SGW5	Will the groundwater table be intercepted in any way?	Y	If ground water is intercepted through construction or investigative works (i.e. borehole drilling and or installation of piezometer), a groundwater licence should be considered. http://www.water.nsw.gov.au/water-licensing/about-licences Application for a groundwater licence: http://www.water.nsw.gov.au/_data/assets/pdf_file/0007/547108/form_licence_wa03_groundwater_licence.pdf	Minimal groundwater to be encountered. Anticipated to be under the groundwater license amount.
	SGW6	Could the proposal impact on any existing bores?	N	http://www.water.nsw.gov.au/realtime-data/groundwater	
	SGW6	Is the proposal located within a 1/100 year flood area? Will the proposal be impacted by or impact upon flood prone areas?	Y	LEP Maps – Flood zoning Consideration be given to impacts on the proposal to exacerbate flooding in a flood event. For larger scale projects, flood modelling may need to be considered. For all proposals within a flood prone area, flood management and response should be addressed in the CEMP.	Historic flood data suggests some areas occupied by pipe alignment are within flood prone areas (including launch/receival manhole). Weather should be monitored and appropriate flood management responses to be addressed in CEMP. Refer to Attachment C for Historic flood mapping.
Ecology	E1	Could the works affect any <i>Environment Protection and Biodiversity Conservation Act 1999</i> listed threatened species, ecological community or migratory species? Does the proposal require impact to any EPBC matters?	N	Approval under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) may be required for certain actions or activities. Refer to the link below for a list of EPBC approval considerations: http://www.environment.gov.au/epbc/do-you-need-approval Department of Environment Protected Matters Search tool: http://www.environment.gov.au/topics/about-us/legislation/environment-protection-and-biodiversity-conservation-act/protected	
	E2	Could the works affect any <i>Threatened Species Conservation Act (1995)</i> listed threatened species, populations or ecological communities?	N	Office of Environment and Heritage Wildlife Atlas database http://www.environment.nsw.gov.au/atlaspublicapp/UI_Modules/ATLAS_/AtlasSearch.aspx For impact on such species, populations or ecological communities, refer to the <i>Threatened Species Assessment Guidelines (The assessment of significance)</i> - http://www.environment.nsw.gov.au/resources/threatenedspecies/tsaguide07393.pdf	

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	E3	Will the proposal require the removal of any native vegetation?	N	<ul style="list-style-type: none"> The total area of plants or vegetation communities to be cleared or modified and the species. Whether the vegetation provides important habitat for native species including threatened species (e.g. hollow-bearing trees, roosting sites etc.), and if so the area, condition and value of the habitat Whether an Endangered Ecological Community (EEC) may be affected and if so the area, condition and value of the community. The likely response of the species, population or vegetation community to the type of disturbance proposed. An Assessment of Significance (seven part test) in accordance with S.5A of the EP&A Act is required for any threatened species, population, ecological community or their habitats related to the site. This must be appended. Figures clearly showing the area of disturbance including access roads, construction corridors and mapped flora and fauna details. 	
	E4	Is the proposal going to impact on any potential fauna habitat e.g. hollow bearing trees?	N	Impact on potential fauna habitat, in particular threatened habitat, is to be considered in the assessment.	
	E5	Are there any crevices or other locations (such as bridges and culverts) for potential bat habitat likely to be disturbed by the proposal?	N	Impacts on bats and potential bat roostings to be considered in the assessment.	
	E6	Will the proposal disturb any areas of noxious weeds?	N	Appropriate weed management and disposal is to be undertaken as per Department of Primary Industries' guidelines. For weed prevalence and management requirements, refer to the following: http://weeds.dpi.nsw.gov.au/	Not anticipated. If so, appropriate management to be undertaken
	E7	Do the works require the potential impact on fish passage?	N	Should the proposal involve dredging, reclamation, temporary blocking of creeks and any other activity potentially obstructing fish passage, the Minister for Primary Industries should be notified in accordance with Section 199 and 218 of the Fisheries Management Act 1994.	
	E8	Will the works impact on any potential koala habitat?	N	<p><i>State Environmental Planning Policy 44 Koala Habitat Protection</i> (SEPP 44) aims to encourage the 'proper conservation and management of areas of natural vegetation that provide habitat for Koalas to ensure a permanent free-living population over their present range and reverse the current trend of Koala population decline'. Schedule 1 of SEPP 44 lists the local government areas (LGA) to which SEPP 44 applies.</p> <p>It should be noted that SEPP 44 does not apply to Part 5 activities, however where possible, the works should be undertaken with consideration to the SEPP 44 objectives.</p> <p>http://www.legislation.nsw.gov.au/inforcepdf/1995-5.pdf?id=b7eb6f0e-5ebf-11dd-8fae-00144f4fe975</p>	
	E9	Is there any important vegetation or habitat (i.e. SEPP 14 Urban Bushland, SEPP 14 Wetlands,	N	<p>SEPP 14: http://www.legislation.nsw.gov.au/maintop/view/inforce/epi+532+1985+cd+0+N</p> <p>SEPP 26:</p>	

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Aspect	Ref.	Consideration	Y/N	Information to be considered	Further actions
		SEPP 26 Littoral Rainforest) within or adjacent to the work area?		http://www.legislation.nsw.gov.au/maintop/view/inforce/epi+111+1988+cd+0+N	
	E10	Could the works impact on any aquatic flora or habitat (i.e. seagrasses, mangroves)?	N	NSW DPI is responsible for the management of fish and marine vegetation, including mangroves, under the Fisheries Management Act 1994 (FM Act). Any development or activity that may harm mangroves must be referred to NSW DPI for approval. DPI Mangroves Fact Sheet: http://www.dpi.nsw.gov.au/data/assets/pdf_file/0020/236234/mangroves.pdf DPI Seagrass Fact Sheet: http://www.dpi.nsw.gov.au/data/assets/pdf_file/0019/203149/seagrasses-primefact-629.pdf	
Noise and vibration	NV1	Are there residential properties or other sensitive land uses or areas that may be affected by noise from the proposal during construction? (i.e. schools, nursing homes, residential areas or native fauna populations)?	Y	Consider the likely impacts on the identified receivers, taking into consideration hours of operation, distance, surrounding land use, existing background noise etc.	Works to be undertaken between allowable construction hours stated by the NSW Government https://www.environment.nsw.gov.au/questions/regulations-for-noisy-construction
	NV2	Will any receivers be affected by noise for greater than three weeks?	N	The assessment of construction noise impacts must be carried out in accordance with the <i>Interim Construction Noise Guidelines</i> (DECC 2009). If sensitive receivers will be impacted for greater than 3 weeks a quantitative assessment is required. http://www.epa.nsw.gov.au/resources/noise/09265cng.pdf	
	NV3	Are there sensitive land uses or areas that may be affected by noise from the proposal during operation?	N	The assessment of operational noise impacts must be in accordance with the <i>NSW Industrial Noise Policy</i> (DECC, 1999). http://www.environment.nsw.gov.au/resources/noise/ind_noise.pdf	
	NV4	Will the works be undertaken during standard working hours? <ul style="list-style-type: none"> • Monday – Friday: 7am to 6pm • Saturday: 8am to 1pm • Sunday and public holidays: no work 	Y	For works to be undertaken outside of the normal construction working hours, refer to the <i>Interim Construction Noise Guidelines</i> (DECC 2009) for the approval and consultation process. http://www.epa.nsw.gov.au/resources/noise/09265cng.pdf	Works will occur during allowed times, including (if applicable during time of works) COVID-19 working time amendments.
	NV5	Will the works result in vibration being experienced by any surrounding properties or	Y	Potential impacts from vibration during construction and/or operation must be quantified. Refer to <i>Assessing Vibration: a technical guideline</i> (DEC, 2006)	No major effects of vibration as a result of the required works (under boring,

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Aspect	Ref.	Consideration	Y/N	Information to be considered	Further actions
		infrastructure?		http://www.environment.nsw.gov.au/resources/noise/vibrationguide0643.pdf	excavating)
Air quality and energy	AE1	Are the works located in an area or adjacent to land uses that may be highly sensitive to dust, odours, or emissions? (e.g. schools, hospitals, nursing homes)	N	Consider the likely impacts on the identified receivers, taking into consideration distance, surrounding land use, existing background air quality etc.	
	AE2	Is the existing environment characterised by poor air quality (i.e. industrial / agricultural land use)?	N	Consideration to the existing air quality in the vicinity of the proposal is to be included in the assessment.	
	AE3	Could the works generate odours (during construction or operation)?	Y	Mitigation measures to be addressed in the REF and CEMP for odour minimisation and control.	
	AE4	Could the works result in dust generation?	Y	Mitigation measures to be addressed in the REF and CEMP for dust minimisation and control.	Applicable if excavation works are required.
	AE5	Will the works involve the use of fuel-driven heavy machinery or equipment?	Y	Consideration regarding the operation of plant and machinery to be considered in the assessment. Minimise air quality impacts where possible.	
	AE6	Have energy use considerations been included in the project design?	N	Energy usage and savings to be considered in the assessment.	
Non-Aboriginal heritage	NAH1	<p>Are there any heritage items listed on the following registers within or in the vicinity of the work area (see note 1):</p> <ul style="list-style-type: none"> Local government register NSW heritage database (includes section 170 and local items) Commonwealth EPBC heritage list 	Y	<p>Items of state or local heritage significance listed on the State register, a government agency Section 170 register or in a Councils Local Environment Plan can be searched for on the State Heritage Register located at:</p> <p>http://www.environment.nsw.gov.au/heritageapp/heritagesearch.aspx</p> <p>Consider the likely impacts on any identified items or places of non-Aboriginal heritage significance, taking into consideration distance and proposed activities.</p> <p>An application to the Heritage Council may be required if disturbance or excavation of any land in NSW that is likely to contain archaeological remains. There are two types of applications, depending on whether the site is listed on the State Heritage Register.</p> <p>Section 60 form – required to disturb or excavate sites listed on the State Heritage Register or to which an interim heritage order (IHO) applies: http://www.environment.nsw.gov.au/resources/heritagebranch/heritage/s60applicationform.pdf</p> <p>S140 Archaeological Permit & S144 Permit Variation Form – required to disturb or excavate sites not listed on the State Heritage Register http://www.environment.nsw.gov.au/resources/heritagebranch/heritage/S140-S144Frm2013.pdf</p>	<p>Works within road reserve.</p> <p>No impacts to any structures</p>

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Aboriginal heritage	AH1	Will the works result in ground disturbance?	Potentially	A due diligence assessment to assess the likelihood of Aboriginal heritage impacts must be carried out - refer to the Code of Practice to ensure all requirements are met. The minimum requirements for a level 1 due diligence assessment is outlined in the Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW (OEH 2010). http://www.environment.nsw.gov.au/resources/cultureheritage/ddcop/10798ddcop.pdf	
	AH2	Are there any previously identified Aboriginal items or places in the vicinity of the proposal?	Y	Undertake a basic search of the Aboriginal Heritage Information Management System: https://www.environment.nsw.gov.au/awssapp/Login.aspx Location of previously identified places / items to be considered in the assessment.	Aboriginal heritage investigations undertaken via AHIMS search (as seen in Attachment D). Due diligence to be undertaken if excavation is required.
	AH3	Will the works occur in the location of one or more of these landscape features and is on land not previously disturbed? <ul style="list-style-type: none"> • Within 200 m of waters. • Located within a sand dune system. • Located on a ridge top, ridge line or headland. • Located within 200 m below or above a cliff face. • Within 20m of or in a cave, rock shelter or a cave mouth. 	N	These items are addressed in the Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW (OEH 2010) and should be considered / documented in the assessment.	
	AH4	Would the proposal require the removal of mature trees?	N	Check to ensure that the trees do not contain scarring or markings that may indicate Aboriginal activity on the past. http://www.environment.nsw.gov.au/resources/cultureheritage/ScarredTreeManual.pdf	Designers to confirm removal of trees beforehand
	AH5	Is further investigation required to determine potential impacts on items or places of potential Aboriginal heritage significance?	N	Refer to the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW http://www.environment.nsw.gov.au/resources/cultureheritage/20110263ACHguide.pdf	
Visual amenity	VA1	Are the works visible from residential properties or other land uses that may be sensitive to visual impacts?	N	Affected residents/businesses/land owners must be consulted with and issues considered during the project design phase.	

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	VA2	Are the works located in areas of high scenic value?	N	Affected residents/businesses/land owners must be consulted with and issues considered during the project design phase.	
	VA3	Will the works involve night work requiring lighting?	N	Notification must be given to local residences prior works being undertaken.	
	VA4	Is the proposal likely to cause impacts on the visual or scenic landscape?	N	Description of the extent of the nature of the impact is required. Consider impacts in the assessment.	Visual impacts during construction only
Traffic and access	TA1	Is the proposal likely to affect any state, regional or local roadways and or road reserves?	N	For impact on State and regional roadways and road reserves, consultation may be required with NSW Roads and Maritime Services to determine approval and permit requirements. Similarly, for local roadways, the local council may need to be consulted with regards to road opening permits and road occupancy licenses and or any other approvals required for potential impacts on local roadways. Consider a traffic management plan as part of the CEMP.	
	TA2	Is the proposal likely to interrupt traffic movement on the surrounding road networks?	N	Refer to above.	
	TA3	Will the works disrupt access to private properties?	Potentially	Notification must be given to local residences prior works being undertaken. Control measures to be detailed in the CEMP.	Potential for driveways to be blocked temporarily prior to notification to landowners
	TA4	Are the works located in an area that may be highly sensitive to movement of vehicles or machinery to and from the work site (i.e. schools, quiet streets)?	N	Notification must be given to local residences prior works being undertaken. Control measures to be detailed in the CEMP.	
Social and Economic	SE1	Is the proposal located within or near an item that might be of high social value to the community?	Y	Consideration to be given to the location of items such as local landmarks, memorials, parks, cemeteries, places of worship etc.	Expecting zero to minimal impact as works are in road reserve
	SE2	Is the nature of the proposal going to influence access or visibility businesses, farms or tourist attractions?	Y	Potential impacts as a result of the proposal on businesses, farms and tourist attraction are to be considered in the assessment.	Will be excavators on the street and temporary visual impacts due to construction works
	SE3	Is the nature of the proposal likely to impact the number of available on-street car parking?	Y	Potential impacts as a result of the proposal on on-street parking are to be considered in the assessment.	
Waste	W1	Is the proposal likely to generate non-hazardous waste?	Potentially	All waste generated as a result of the proposal is to be managed and disposed in accordance with the Waste Classification Guidelines (EPA, 2014): http://www.epa.nsw.gov.au/resources/wasteregulation/140796-classify-waste.pdf	Appropriate waste management strategies to be implemented in CEMP where required.

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Aspect	Ref.	Consideration	Y/N	Information to be considered	Further actions
				The REF should estimate the main types of waste that may be generated and specify options or requirements for handling and disposal, with consideration given to the EPA's <i>Waste Less, Recycle More Initiative</i> : http://www.epa.nsw.gov.au/wastestrategy/waste-less-recycle-more.htm	
	W2	Is the proposal likely to generate hazardous waste?	N	All waste generated as a result of the proposal is to be managed and disposed in accordance with the <i>Waste Classification Guidelines</i> (EPA, 2014): http://www.epa.nsw.gov.au/resources/wasteregulation/140796-classify-waste.pdf	In the event excavation occurs, the hazardous material is to be disposed of and handled appropriately, depending on the hazardous material.
	W3	Is the proposal likely to generate waste asbestos material?	Y	For management and disposal requirements, refer to the NSW WorkCover <i>Code of Practice; How to manage and control asbestos in the workplace (2011)</i> . http://www.workcover.nsw.gov.au/_data/assets/pdf_file/0015/15216/how-to-manage-control-asbestos-workplace-code-of-practice-3560.pdf	Small portions of asbestos material to be generated with connections to asbestos-cement mains. Works also being undertaken adjacent to asbestos-cement mains. Asbestos/contamination management to be documented in CEMP and relevant safety documentation.
	W4	Is the proposal likely to generate acid sulfate soils or potential acid sulfate soils that may require on-site treatment and or off-site disposal?	N	Management of acid sulfate soils is to be undertaken in accordance with the Acid Sulfate Soils Assessment Guidelines (Acid Sulfate Soils Management Advisory Committee, 1998) and the Waste Classification Guidelines (Part 4): Acid Sulfate Soils (EPA, 2014): http://www.planning.nsw.gov.au/rdaguidelines/documents/NSW%20Acid%20Sulfate%20Soils%20Assessment%20Guidelines.pdf http://www.epa.nsw.gov.au/resources/wasteregulation/140798-acid-sulfate-soils.pdf Consider the need to undertake intrusive field investigation to determine the presence and strength of acid sulfate soils on the proposal site.	Acid Sulphate Soil Management plan to included in CEMP where excavations in Potential Acid Sulphate Soil (PASS) is required.
	W5	Is the proposal likely to generate liquid waste (groundwater extraction or otherwise) they will require management and disposal?	N	The use of on-site treatment and reuse on site is to be considered. All waste materials are to be managed and disposed in accordance with the NSW Waste Classification Guidelines (EPA, 2014): http://www.epa.nsw.gov.au/resources/wasteregulation/140796-classify-waste.pdf	
Cumulative impact	CI1	Will there be a combination of impacts from other projects in the vicinity (e.g. traffic impacts from the proposal and residential development works combining to result in an overall significant impact)?	N	To be considered in the assessment	

Final Completion – Sign off

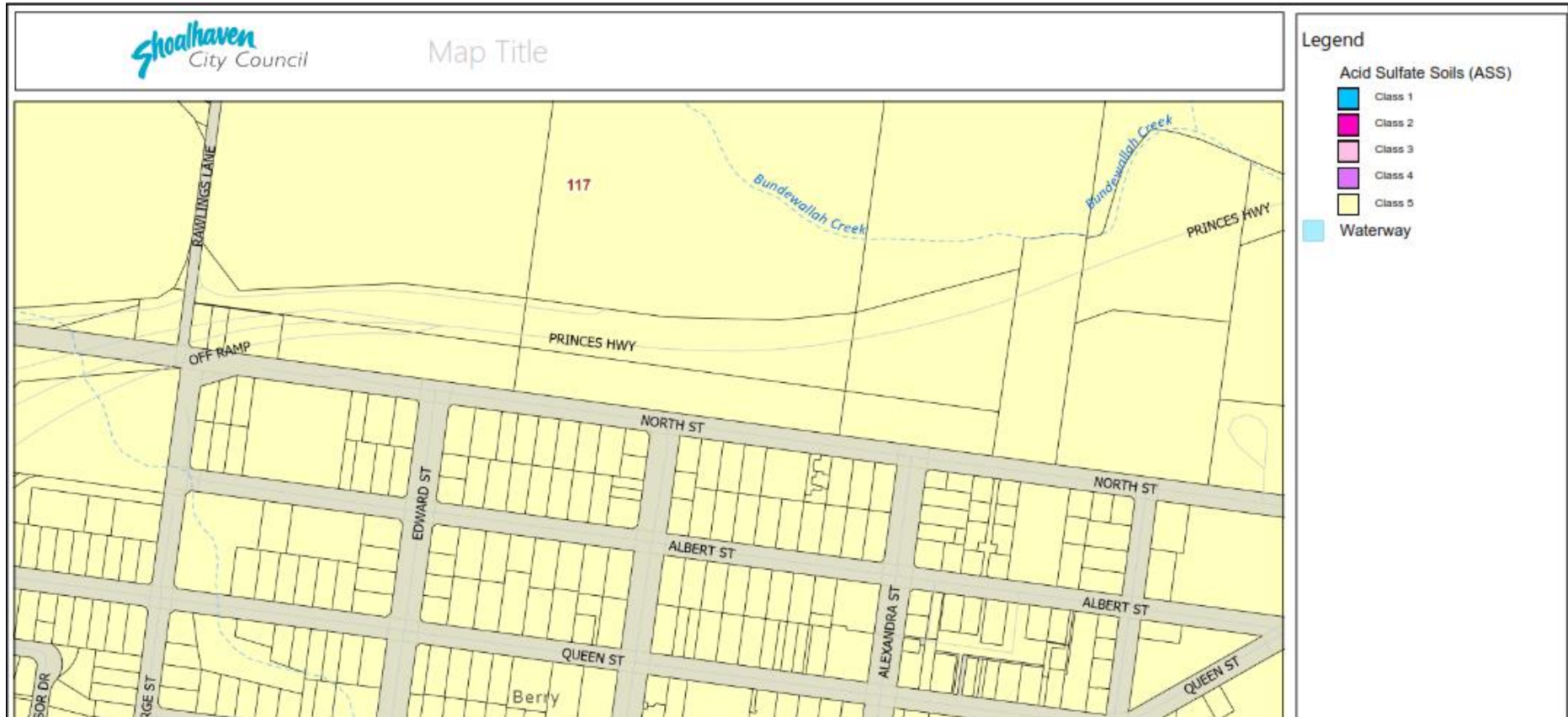
- Part A
- Part B
- Part C

Name	Signature	Position	Completion Date
Joshua Clugston		Engineering Officer	17/01/2022

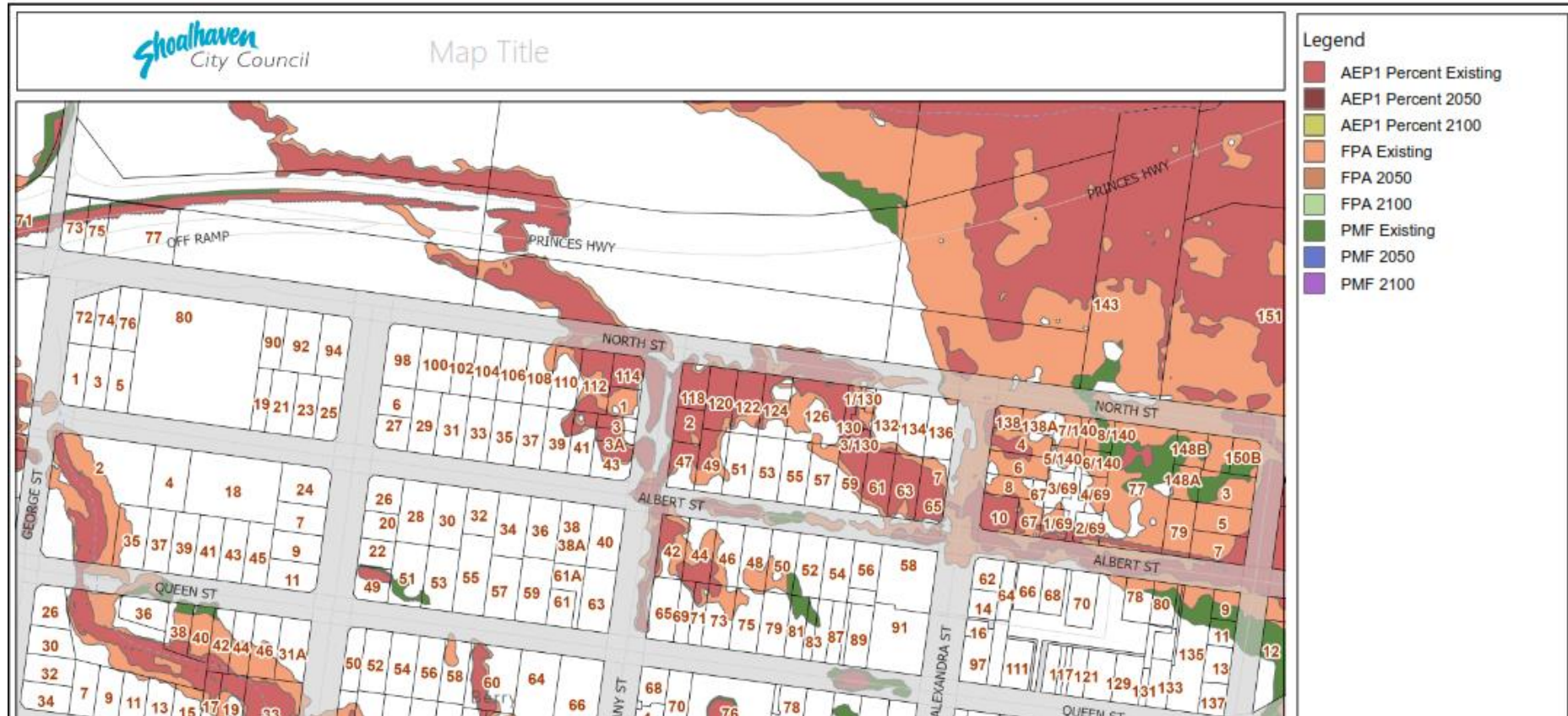
Attachment A: Zoning Map



Attachment B: Potential Acid Sulphate Soils Mapping



Attachment C: Flood Planning Area



Attachment D: AHIMS Search Results



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

5	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *