

Environmental Assessment Form – Level 3



Sewer Vacuum Pot Refurbishment Project – 2023 V2

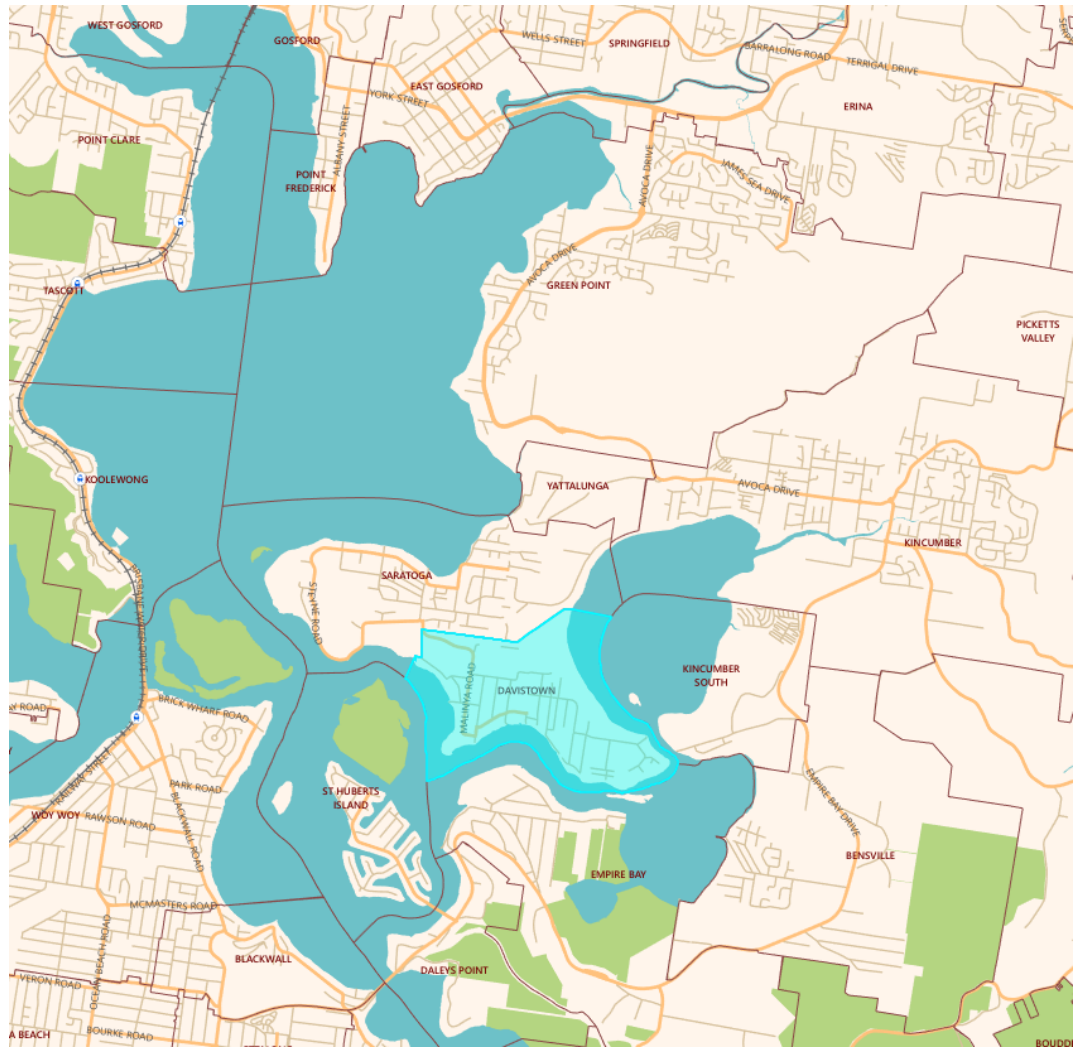
This form is an Environmental Impact Assessment under Part 5 of the EP&A Act 1979 and S228 of the EP&A Reg (2000). This form is to be completed by an Assessing Officer in accordance Council's Environmental Assessment Guideline.

Section A: Work Activity

The activity is permissible without consent under Part 5 of the Planning and Assessment Act 2979 and CI 2.126 (6) of SEPP Transport and Infrastructure being "Development for the purpose of sewage reticulation systems may be carried out without consent on any land in by a public authority".

Section B: Nature and Scope

Project Title	Sewer Vacuum Pot Refurbishment Project - Davistown 2251
Proponent Details	<p>The works are to be undertaken by Central Coast Council (CCC) Water and sewer Maintenance Service Section</p> <p>Contact person:</p> 
Location Address	The works are to be undertaken across the suburb of Davistown within the Central Coast LGA
Location Map	



Site Zoning

Other Zone - Type Below

Multiple land use zones

Detailed Description of the Work Activity

Central Coast Council is required to undertake refurbishment works within sewer vacuum system at Davistown. The project involves the renewal of the sewer assets and installation of new control equipment within 3m of the current system location. Methods for installation are listed below:

- Letter box drop will be undertaken to inform residents of upcoming works
- Take pre-condition photos of site around the vacuum pot and intended pillar location.
- Pressure wash inside of vacuum collection pot, with washed down material to be evacuated via vacuum sewer system.
- Place plastic sheeting on ground, neighbouring the area for the intended trench.
- Hand-excavate the trench from the edge of the existing sewer pot to the intended location of the pillar – typically within 2 metres of the collection pot. This may be up to 5 meters if a collection pot is in the middle of a driveway or other logistical obstacle.
 - The trench is typically 500 millimetres wide and 500 millimetres deep. It is to accommodate air hoses and an electrical monitoring line between the sewer pot and the pillar.

- Where a particular surface finish was in place (grass, decorative pebbles, etc), remove this material intact, and keep aside on plastic sheeting for later reinstatement.
- Where a concrete/hard surface is in place in the area proposed for the trench, under boring by hand may be used if this concrete/hard surface is 500 millimetres or less in length. The extent of the under bore would have to remain no further than 500-600 millimetres in length. The cross section of the under bore is going to remain well within the previously referred 500 millimetres wide and 500 millimetres deep dimensions. This would all be done from a single point at the edge of the concrete slab.
- Where concrete/hard surface in the location of the proposed trench is longer than 500 millimetres (for example, a driveway), the concrete may need to be cut/removed and reinstated. The concrete/hard surface would be cut, and the trench dug in line with the previous trench dimensions. All procedures would continue, ie, removed soil etc be contained on plastic sheeting for assessment and later return to the trench opening if suitable. The top 50-100 millimetres of the trench may be reinstated with road base, ahead of new concrete/hard surface being poured for a permanent concrete/hard surface restoration. The original removed concrete/hard surface would be disposed of, along with any minor volume of top trench material that was replaced with road base. The concrete/hard surface would receive a temporary restoration on the day to permit use by the resident (road base). The permanent concrete would then be installed in the following weeks, where only the temporary road base to the depth of the concrete/hard surface would be removed and replaced with concrete/hard surface and requires steel reinforcing within the concrete.
- All material moved from the trench is to be placed on the plastic sheeting to ensure it can be contained if required, and not contribute to any siltation/wash off of any material that may have otherwise ended up in lawn, gardens, or hard surfaces.
- Core drill the wall of the existing vacuum collection pot, through to the trench that has just been dug. This is to run hose and cable from the sewer collection pot to the new pillar.
- Install the pillar at end of the trench, with hoses/cable running up into the pillar.
- Seal the penetration of the collection pot where the cables and hoses exit the sewer pot.
- Back fill the trench with same material that was taken from the hand excavation process.
- Reinststate any surface material that was initially put aside.



Figure 1: Proposed disturbance footprint (Red). Not including south of Brisbane Waters

Divisional valve works:

- Identify valves to be exposed/repaired/replaced. Note valve location varies between road pavement and road verge.
- Inform relevant residents of works and impact to their service if required.
- Isolate the valve by closing upstream service valves or pump station.
- Take pre-condition photos of site around the sewer service valve or approximate area if not clearly visible.
- Utilise suitable locating method to pinpoint excavation area, e.g. prodding the ground for valve cover, removing surface material or using a metal detector.
- Place plastic sheeting on ground, neighbouring the area for the intended excavation.
- Hand-excavate the valve,
 - Valves are located on the vacuum main, typically 0.7-1.2m below ground,
 - Excavation to be approx. 1.5m deep and approx. 1.5m in diameter,
- Inaccuracies with the drawings or ground level changes due to time may result in larger excavations, additional depth and width i.e. 2m deep by 2m diameter.
- All material moved from the excavation is to be placed on the plastic sheeting to ensure it can be contained if required, and also not contribute to any siltation/wash off of any material that may have otherwise ended up in lawn, gardens or hard surfaces.
- Perform work on the valve which may involve;
 - Reveal
 - Locate valve/valve cover,
 - Reinststate/align valve stem and conduit,
 - Confirm operation of the valve and mark the surface for future reference,
 - Repair
 - Repair valve by removing and replacing components of the valve whilst in place on vacuum main.
 - Replace
 - Remove valve by making two cuts in the vacuum main on one side of the valve.
 - Remove valve and dispose, keeping the cut sections of vacuum main.

- Replace with new service valve and existing vacuum main components using suitable repair components.
- Back fill the trench with same material that was taken from the hand excavation process.
- Reinstate any surface material that was initially put aside.
- Ensure service valve cover is in place on the surface.
- Remove isolations.
- Confirm vacuum at downstream vacuum pots.



Figure 2: Proposed disturbance footprint (Red cross, blue circles) for divisional valves.

Detailed Description of the Existing Environment

The Davistown suburb is approximately 7km south of Gosford, within a peninsular comprising of Saratoga, Brisbane Waters and Yattalunga to the north, Kincumber to the east and foreshore reserve with Brisbane Waters bounding the east and south. The areas of impact have historical disturbance in the form of residential and retail, roads, foot paths and various other infrastructure (water reticulation, sewer reticulation, wharves, and recreational areas).

The vegetation within the disturbed areas is primarily exotic turf, garden beds and planted trees. Some areas of proposed impact are within concrete paths and driveways.

Soils across the subject area consist of Woy Woy Soil Landscape, the Mangrove Creek Soil Landscape, Wyong Soil Landscape, and Erina Soil Landscape. Soils are approximately >200cm in depth. Ground water is typically high and reached at approx. 200cm depth.

There are many Aboriginal and Non-Aboriginal heritage sites within the subject area. Aboriginal heritage site include undisturbed and disturbed middens, open sites, shell and PAD's. European heritage sites include buildings and wharves.

Some area of Davistown have wetlands mapped under SEPP Resilience and Hazards. These are unlikely to be impacted by the proposed works. Some subject sites are located within the Buffer area for SEPP wetland.

**Reasons for
undertaking the
work activity**

Vacuum sewerage systems are used where ground conditions make it difficult to install a traditional gravity system or where there is an overriding environmental issue.

Installed in the early 1990's the Davistown & St Hubert's Island sewerage systems uses air pressure to transport wastewater from the collection pits (generally located in a front yard) to a central collection tank

Both systems have had declining system performance over the last number of years. This has been seen across day to day with operators being called out to fix individual issues and during wet weather events when large sections of the system are offline.

Project aims to refurbish both vacuum sewer systems to improve the reliability and resilience of the systems. This includes replacing parts in existing sewer pots and installing "pillars" adjacent to these pots to improve operation and maintainability. The pillars will allow the controller relocated out of the sewer pot to be above ground.

Council experiences a high number of reactive callouts across the two largest vacuum sewer systems at Davistown & St Hubert's Island. Resulting in a reduced level of service to customers and a high cost to operate and maintain. This service level further is eroded during wet weather events where stormwater enters the system, overloading it and causing it to crash.

The improvements seek to reduce the number of reactive callouts across both systems as well as improving the resilience to wet weather events.

Improvements include replacing parts in existing sewer pots and replacing exiting vent lines with pillars "pillars" adjacent to these pots to improve operation and maintainability. The pillars will allow for pot controllers to be relocated from inside the pot to above ground. Above areas where water can pool and enter parts.

Divisional valves allow for the isolation of vacuum mains and vacuum pots in order to undertake maintenance activities or in the event of failures to prevent overflows.

Valves in the Davistown system have been identified to be non-operational or are unable to be located due to build up of vegetation or structures resulting in the loss of this capability. In order to ensure the system operates at its design capacity, the non-operational divisional valves need to be identified, uncovered, repaired or replaced.

Section C: Environmental Impacts and Control Measures

Air

Dust	
1. Details of impacts	3. Control measures
<p>Minor impacts from dust generated through excavations and stockpiling of materials. This may affect residents, contractors, and staff.</p>	<ul style="list-style-type: none"> Sediment and erosion controls are to be installed where required, in accordance with Council's 'Erosion and Sediment Control' field guide and the Blue Book to mitigate runoff. Appropriate usage of PPE by contractors during works required. Works are to be undertaken in favourable weather conditions. Watering down of the site is to occur as a dust suppression method. Adjacent Residents will be notified of the works prior to commencement.
2. Impacts without controls	4. Impacts with controls
<p>Insignificant: No or minimal dust generated.</p>	<p>Insignificant: No or minimal dust generated.</p>

Odours	
1. Details of impacts	3. Control measures
<p>Minor fumes generated as a result of machinery and vehicles on-site or driveway rectification works.</p>	<ul style="list-style-type: none"> Appropriate usage of PPE by contractors during works as required. Ensure all vehicles and machinery used during construction are to be maintained to industry standards to ensure they will produce minimal fumes and emissions. All equipment, machinery and vehicles are to be turned off when not in use. Adjacent residents will be notified of the works prior to commencement.
2. Impacts without controls	4. Impacts with controls
<p>Minor: Odours generated. Limited to duration of works.</p>	<p>Minor: Odours generated. Limited to duration of works.</p>

Water

Stormwater	
1. Details of impacts	3. Control measures
<ul style="list-style-type: none"> There are several drainage pits and open drainage culverts located on-site. Minor excavations will be undertaken onsite with small individual stockpiles of materials adjacent to the vac pot location 	<ul style="list-style-type: none"> Sediment and erosion controls are to be installed where required, in accordance with Council's 'Erosion and Sediment Control' field guide, CEMP and the Blue Book to mitigate runoff.

<ul style="list-style-type: none"> • There is potential for unconsolidated sediment / materials to infiltrate stormwater drains on-site. • • There is potential for hazardous substances or chemicals to enter stormwater drains and pits if leakages or spillages occur from vehicles and/or equipment. 	<ul style="list-style-type: none"> • A sediment and erosion control plan will be included in the Construction Environmental Management Plan (CEMP) provided by the Contractor. • All excavation areas are to be filled as soon as possible to reduce the risk of sediment movement. • If sediment stockpiles are required, they are not to be located near stormwater drains or culverts and are to be correctly surrounded by sedimentation fencing. • Do not undertake works during heavy rain or wind events. • Refuelling or maintenance of machinery, vehicles or equipment is not to occur on-site. • Spill kits to be kept on site with plant at all times. • Concrete cutting will be undertaken away from drain or other stormwater. • Concrete wash out areas will be used to ensure no waste water enters waters
<p>2. Impacts without controls</p>	<p>4. Impacts with controls</p>
<p>Minor: Stormwater will potentially contain sediment or pollutants.</p>	<p>Insignificant: Stormwater will potentially contain sediment but will not leave the site.</p>

Groundwater	
<p>1. Details of impacts</p> <p>The site is in close proximity to Brisbane Waters. Areas of the site can be considered as low lying.</p>	<p>3. Control measures</p> <ul style="list-style-type: none"> • If groundwater is encountered, works are to Cease, and a ground water management plan is to be created and implemented. • Any groundwater is to be extracted, tested, and clarified prior to release to the environment via stormwater drain or dissipation to a vegetated area. A silt buster or storage tank is to be used for this process.
<p>2. Impacts without controls</p>	<p>4. Impacts with controls</p>
<p>Insignificant: Groundwater will be intercepted but not impacted.</p>	<p>Insignificant: Groundwater will be intercepted but not impacted.</p>

Water Bodies	
<p>1. Details of impacts</p> <p>Stormwater drains and gutters lead directly to Brisbane Waters.</p> <p>There is potential for soil/sediment (or turbid water) to enter the waterway.</p>	<p>3. Control measures</p> <ul style="list-style-type: none"> • Sediment and erosion controls are to be installed where required, in accordance with Council's 'Erosion and Sediment Control' field guide, CEMP and the Blue Book to mitigate runoff.

<p>There is potential for hazardous materials and/or chemicals to enter the waterway.</p>	<ul style="list-style-type: none"> • Appropriate sediment control measures are to be erected as required prior to commencing the work and maintained until the site has been stabilised and the risk of erosion and sediment movement from the site is minimal. • Sediment stockpiles are not to be located near the waterbody or stormwater drains/pits. Stockpiles and spoil are to be correctly surrounded by sedimentation fencing. • All excavation sites are to be rectified to original condition as soon as possible. • Refuelling or maintenance of machinery, vehicles or equipment is not to occur on-site. • Spill Kits are to be available on site at all times during works and all Contractors are to be trained in Spill Kit use.
<p>2. Impacts without controls</p>	<p>4. Impacts with controls</p>
<p>Insignificant: Works will be carried out adjacent to a water body.</p>	<p>Positive: Water bodies will be improved/rehabilitated.</p>

Soil

<p style="text-align: center;">Soil Erosion and Disturbance</p>	
<p>1. Details of impacts</p>	<p>3. Control measures</p>
<p>Excavations are planned to be manual excavations adjacent to each sewer pot. Each excavation will be 500m wide x 500mm deep, typically up to 2m in length.</p> <p>57 Divisional valve excavations proposed to be approx. 1.5m deep x 1.5m diameter.</p> <p>Surface may be destabilised from the increase in foot, vehicle, and machinery traffic.</p> <p>There is potential for any disturbed or unconsolidated soils/materials to erode and move off site whilst.</p> <ul style="list-style-type: none"> • Excavation work is performed • The topsoil is disturbed/exposed 	<ul style="list-style-type: none"> • The minimum area required will be disturbed • Sites will be stabilised progressively • Excavated material will be handled as per the AHIP
<p>2. Impacts without controls</p>	<p>4. Impacts with controls</p>
<p>Minor: Soils will be disturbed during works.</p>	<p>Minor: Soils will be disturbed during works.</p>

<p style="text-align: center;">Acid Sulfate Soils</p>	
<p>1. Details of impacts</p>	<p>3. Control measures</p>
<p>Acid Sulphate Soils (ASS) are mapped as Class 2 on the site i.e., works below the ground surface where the water table is likely to be lowered. (Geocortex 2018). Works not proposed to be >2m in depth.</p>	<ul style="list-style-type: none"> • If suspected ASS is identified (e.g., Black ooze sulphuric smell or dark gluey soils) works will Cease and soils will be tested.

<p>The site has experienced extensive disruption as a result of road, pathway, and utility construction. It is unlikely that works will disrupt Acid Sulphate Soils.</p> <p>Some sites have been identified with high probability of occurrence for acid sulfate soils. On-site testing and soil neutralisation will be undertaken during excavation works. Sites include: 34 Morton Cr, 100-106 Malinya Rd, 54-56 Pine Ave, 24, 38 and 98 Kincumber Cr.</p>	<ul style="list-style-type: none"> If required, an ASS management plan will be created and implemented
<p>2. Impacts without controls</p> <p>Insignificant: Acid sulfate soils will be present but not disturbed.</p>	<p>4. Impacts with controls</p> <p>Insignificant: Acid sulfate soils will be present but not disturbed.</p>

<p>Land Contamination – Not Applicable</p> <p>No history of land contamination Geocortex – 24/02/2023</p>	<p>Comment</p>
------------------------------------------------------------------------------------------------------------------	----------------

Biodiversity

Native Animals (Fauna)	
<p>1. Details of impacts</p> <p>Minor disturbance of residential fauna habitat e.g., lawns, garden beds and planted trees. Trees will not be impacted by the works.</p>	<p>3. Control measures</p> <p>Any fauna identified will be allowed to leave the site unharmed</p>
<p>2. Impacts without controls</p> <p>Insignificant: Fauna may be present on site but not disturbed.</p>	<p>4. Impacts with controls</p> <p>Insignificant: Fauna may be present on site but not disturbed.</p>

Native Vegetation (Flora)	
<p>1. Details of impacts</p> <p>Intermittent and minor trimming of disturbed native vegetation may occur</p>	<p>3. Control measures</p> <ul style="list-style-type: none"> No tree removal or damage to root zones will occur
<p>2. Impacts without controls</p> <p>Minor: Native vegetation will be pruned or cleared.</p>	<p>4. Impacts with controls</p> <p>Minor: Native vegetation will be pruned or cleared.</p>

<p>Aquatic Ecology – Not Applicable</p> <p>Works are outside of the tidal and aquatic environment</p>	<p>Comment</p>
--------------------------------------------------------------------------------------------------------------	----------------

<p>Threatened Species – Not Applicable</p> <p>No threatened species, populations or endangered ecological communities are present within the impact area. Geocortex 27/02/2023 has mapped EEC communities Coastal Swamp Oak (Casuarina glauca) Forest of NSW and SE</p>	<p>Comment</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------

QLD EEC: Swamp Oak Floodplain Forest of the NSW NC, SB and SEC Bioregions EEC (Green), Subtropical and Temperate Coastal Saltmarsh VEC: Coastal Saltmarsh in the NSW NC, SB and SEC Bioregions EEC (Brown) and Swamp Sclerophyll Forest on Coastal Floodplains of the NSW NC, SB and SEC Bioregions EEC (Yellow) over some of the impact's areas. A pre works inspection has been undertaken with CCC Environmental Officer during the ACHAR process, the highly disturbed nature of these sites excludes the areas for disturbance from the scientific determination of these communities. No test of significance has been undertaken.

Bushstone curlews are know to breed within the reserves of the Davistown suburb. No vac pots are located within bushland areas and it is considered unlikely these species ould be impacted by the works. Non-with-standing, controls have been included for works within the breeding season. Bush stone-curlews breed from June to December and are territorial during the breeding season. The mating pair is monogamous and will stay together for the year. The clutch size is two eggs, which are laid on the open ground with little preparation

Controls for inclusion

- Works will strictly be located within the identified disturbance areas.
- Works will not impact threatened fauna, EEC or Key Habitat for Threatened Species.
- There will be no removal of large, established trees or significant habitat as part of the works.
- If any threatened species of flora or fauna are in the site footprint during construction, works are to **Cease** immediately until the site is assessed and cleared by appropriately qualified personnel such as a Council Ecologist.
- Any accidental damage to the vegetation is to be communicated to the Environmental Reporting team immediately.



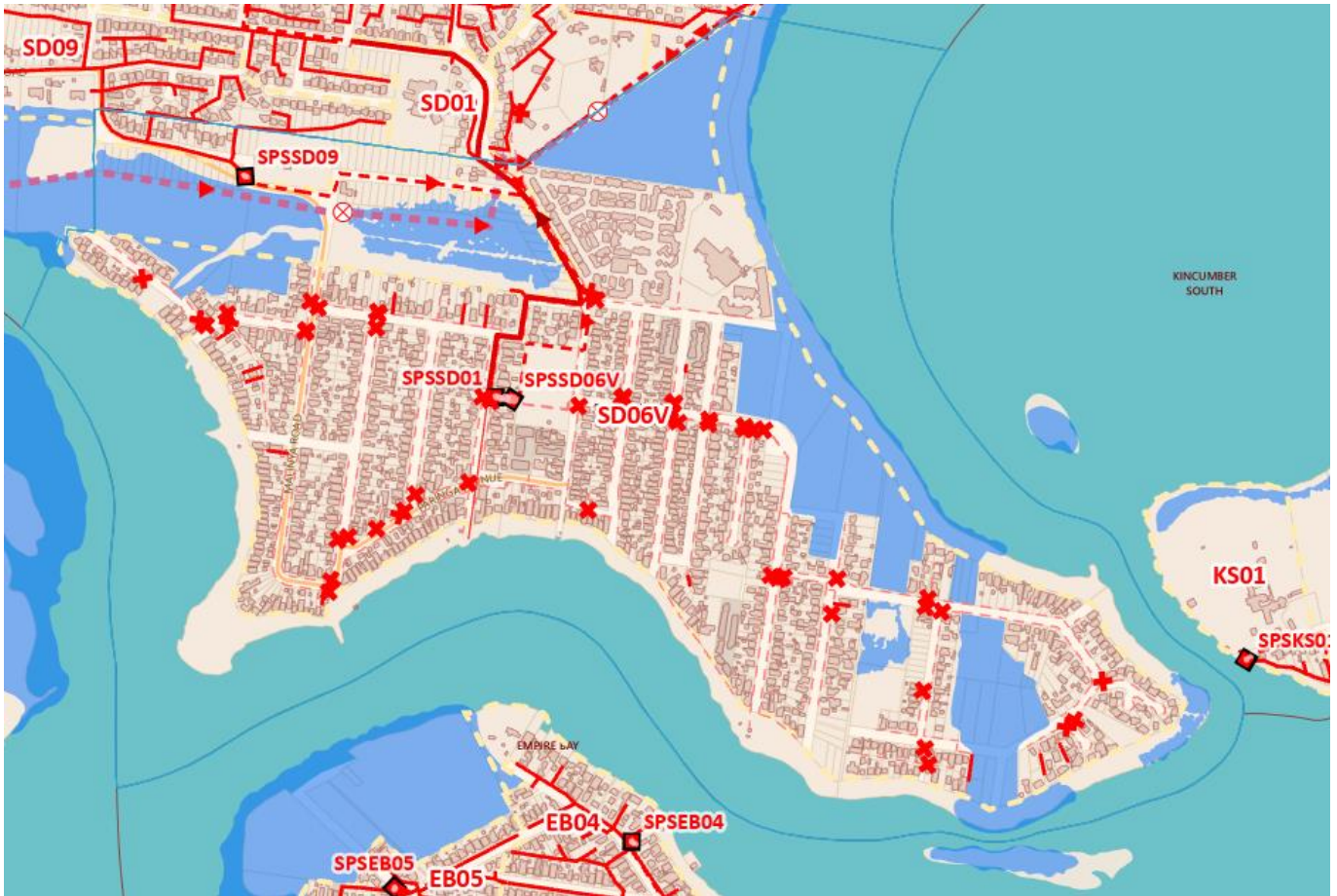
- If works are to be undertaken between June-December a site walk over will be undertaken within the area to be disturbed on entry to each location. The walk over will slowly walk over any ground surface with the potential to be trampled, have materials set down or be excavated. The walk over is to search for any eggs which could potentially be Bush Stone Curlews. If eggs or Curlews are suspected all works will **Cease** and Environmental Reporting contacted.



Bushstone curlew eggs and individuals

Weeds & Pests	
1. Details of impacts	3. Control measures
Due to the proximity of residential property and vegetation, there may be several weed species on-site.	<ul style="list-style-type: none"> • If present on-site and disturbance is expected, weed control and removal is to be in accordance with DPI’s NSW Weed Control Handbook for each weed species. Non-chemical control options to be used where possible if viable. • If weeds with a high biosecurity risk are identified, notify a Council biosecurity/weeds officer immediately. • Machinery, vehicles, and equipment are to be inspected prior to entry /exit to site to remove the risk of weed spread/dispersal.
2. Impacts without controls	4. Impacts with controls
Minor: Weeds or pests will be disturbed.	Minor: Weeds or pests will be disturbed.

Conservation Areas & Corridors – Not Applicable	Comment
There are no conservation areas mapped on Geocortex. Located nearby is coastal wetlands mapped under SEPP resilience and hazards (Blue mapped below). These are protected sensitive vegetation types. If any impact is expected all works are to Cease and Environmental Reporting to be contacted.	



Heritage

Aboriginal Heritage

1. Details of impacts

Davistown is rich in Aboriginal Heritage and houses a range of sites and places protected under the *National Parks and Wildlife Act 1974*. During the environmental assessment process, it was identified nine sites could potentially be damaged by the proposed works. During the proposed excavation works there is a potential for harm to Aboriginal heritage as buried objects may be uncovered, damaged or moved.

AHIMS Search Date: 13/07/2022
AHIMS Search ID: 700128

3. Control measures

- An Aboriginal Heritage Impact Permit (AHIP) has been issued to manage potential harm to Aboriginal objects. All actions on the land must be carried out in accordance with the AHIP 5143, including standard conditions such as:
- Suitable notification with Registered Aboriginal Parties (RAPs),
- Engagement of suitably qualified and competent archaeologists,
- Salvage excavation methodology,
- Responsibilities around human remain discoveries,
- Process for Aboriginal heritage object discoveries and subsequent RAP community collection opportunities,
- Aboriginal heritage object analysis and reporting,

2. Impacts without controls

Potentially Significant: An Item or Place of Aboriginal heritage significance will potentially be harmed.

4. Impacts with controls

Other: Type in space below.

Impact with controls has been assessed as Potentially Significant: An Item or Place of Aboriginal heritage significance will potentially be harmed. Any potential harm will be via the controls detailed in the AHIP, therefore reducing the overall likelihood and consequence.

Local & State Heritage	
<p>1. Details of impacts</p> <p>The Central Coast Local Environmental Plan has been reviewed identifying 7 items (Table 1). Of these 4 have the potential to be impacted by the works and have been inspected by CCC Heritage Officer Peta James (08/03/2023).</p> <p>There is no expected impact to the below sites The items have been reviewed against the NSW Heritage register 27/02/2023 https://www.hms.heritage.nsw.gov.au/App/Item/SearchHeritageItems?_ga=2.165972984.714120821.1658117920-344545924.1656901875</p>	<p>3. Control measures</p> <ul style="list-style-type: none"> No exemption is required for this project in relation to the below Heritage items located in the Davistown suburb. If the project scope of disturbance footprint changes within the addresses tabulated in Table 1 contact Environmental reporting
<p>2. Impacts without controls</p> <p>Minor: An Item or Place of heritage significance is known within the locality.</p>	<p>4. Impacts with controls</p> <p>Insignificant: No Item or Place of heritage significance is known within the locality.</p>

Table 1: Listed heritage items within and around the disturbance footprint and assessment of proposed impacts

Suburb	Item name	Address	Property description	Significance	Item #	Assessment of impacts	Notes
Davistown	Central Wharf, plaque, and shelter	End of Davistown Road, adjacent to Illoura Reserve	Adjacent to Lot 7328, DP 1166009	Local	115	Nil No impacts expected	
Davistown	House	19 Davistown Road	Lot 9, DP 7356	Local	116	Building only No impacts expected https://www.hms.heritage.nsw.gov.au/App/Item/ViewItem?itemId=1620421	If change of scope, contact Environmental reporting
Davistown	House, "Emoh-ruo et al"	8 Lenora Avenue	Lot 1, DP 945028	Local	117	Building only No impacts expected https://www.hms.heritage.nsw.gov.au/App/Item/ViewItem?itemId=1620428	If change of scope, contact Environmental reporting
Davistown	Davistown Store	1 McCauley Street	Lot 1, DP 12932	Local	118	Site and building Inspection undertaken – no impacts expected https://www.hms.heritage.nsw.gov.au/App/Item/ViewItem?itemId=1620030	If change of scope, contact Environmental reporting
Davistown	Davistown Progress Hall	5 McCauley Street	Lot 3, DP 12932	Local	119	Building only No impacts expected https://www.hms.heritage.nsw.gov.au/App/Item/ViewItem?itemId=1620419	If change of scope, contact Environmental reporting
Davistown	Scandrett's boat shed and wharf	End of Mirreen Avenue, adjacent	Adjacent to Lot 7037, DP 1075591	Local	120	Nil No impacts expected	

		to Illoura Reserve					
Davistown	Davistown Baths	Off Pine Avenue (foreshore reserve)	Lot 7034, DP 1125784	Local	121	Nil No impacts expected	



Miscellaneous

Waste & Stockpiles	
1. Details of impacts	3. Control measures
<p>Materials will be stockpiled adjacent to excavations. Stockpiles will be small and individual for each site. No contaminated materials are expected. Excavations are expected to contain Aboriginal heritage items and will be handled in accordance with the AHIP</p>	<ul style="list-style-type: none"> • Materials will be reused onsite where practical • Materials will be stockpiled within 2m of excavations • Materials will be stockpiled for the shortest duration possible • If materials are required to be left overnight, they will be covered, and sediment controls installed • All waste to be disposed will be taken to a facility licenced to accept the classification • All controls within the ACHAR and AHIP will be implemented • Excavations will be stabilised ASAP
2. Impacts without controls	4. Impacts with controls
<p>Insignificant: Incidental waste & stockpiles.</p>	<p>Insignificant: Incidental waste & stockpiles.</p>

Community Disturbance & Visual	
1. Details of impacts	3. Control measures
<p>Pedestrians and vehicles may be temporarily unable to use nature strips during construction. Minor inconvenience to residents, pedestrians, and vehicles for the duration of works</p>	<ul style="list-style-type: none"> • Prior to construction Council will be responsible for engaging with all relevant stakeholders and neighbours nearby the works. • Place a "Notice of Works" at each active work location. Social media advertisement will also be used to advise community of project and small disruptions. • Provision of safe pedestrian access ways around the construction. • After the end of the asset's useful life, it will incur maintenance or replacement costs, this will be planned and budgeted for. • Works will be undertaken during usual construction hours being: <ul style="list-style-type: none"> ○ 7am-5pm Monday to Friday ○ 8am-12pm Saturday
2. Impacts without controls	4. Impacts with controls
<p>Minor: The community will be moderately disturbed during works or for short term periods.</p>	<p>Positive: The community will benefit, be enhanced or supported.</p>

Economic

1. Details of impacts	3. Control measures
Project funded via Water & Sewer Capital Expenditure. Impact will be a reduction in ongoing maintenance and operational costs.	<ul style="list-style-type: none"> Project has initiated via competitive tender process Proposed works to increase robustness of sewer system
2. Impacts without controls	4. Impacts with controls
Insignificant: Funds allocated.	Positive: Cost savings.

Environmental Hazards	
1. Details of impacts	3. Control measures
All sites are within the flood zone (Geocortex - 1% flooding).	<ul style="list-style-type: none"> The proposed works will not exacerbate the risk or impact of environmental hazards to the surrounding areas. Monitor weather forecasts and only carry out work in suitable conditions.
2. Impacts without controls	4. Impacts with controls
Minor	Minor

Noise & Vibration	
1. Details of impacts	3. Control measures
Minor impacts from noise and vibration of plant and machinery during working hours	<ul style="list-style-type: none"> Noise will be minimised by using standard operation hours (Monday to Friday 7am-5pm & Saturday 8am – 12pm, excluding public holidays) to reduce impact on surrounding public and neighbours. Residents will be notified prior to works commencing. Appropriate PPE to be worn by all relevant personnel.
2. Impacts without controls	4. Impacts with controls
Minor: Noise and/or vibration will be generated during works and will impact nearby receivers.	Insignificant: Incidental noise and/or vibration will be generated occasionally during business hours.

Chemicals	
1. Details of impacts	3. Control measures
Chemicals will be handled, stored, and transported for the project.	<ul style="list-style-type: none"> All chemicals and materials are to be used and stored according to their instructional requirements. Spill kits to be kept on site for duration of works, and no refuelling is to take place on site. SWMS and SDS to be kept on site for duration of works.

2. Impacts without controls	4. Impacts with controls
Insignificant: HC&DG will be stored and handled during works.	Positive: Storage and handling of HC&DG will be reduced.

Climate Change – Not relevant to this project	Comment

Cumulative or Additional Impacts	
1. Details of impacts	3. Control measures
<p>An assessment of the sewer system of Davistown has been undertaken from a general environmental and water quality perspective.</p> <p>Due to the negative impact on water quality and protected vegetation which results from sewer discharges during significant rainfall events. It is expected the impact of the works will have a positive environmental net benefit.</p>	<ul style="list-style-type: none"> Undertake works in accordance with the designs, procedures, and specifications
2. Impacts without controls	4. Impacts with controls
Potentially Significant	Minor

Section D: Factors for Consideration

a) Any environmental impact on the community

The environmental impact will be improved within the Davistown community. Sewer discharges and reduced service during rainfall events have become more frequent in the recent years. While there may be short term and intermittent during works. The long-term benefits to both the community and the environment by far out way the minor short-term inconveniences.

b) Any transformation of a locality

The area of works is highly disturbed with a range of infrastructure, residential dwelling, and open space. The disturbance footprint of each pot and installation of new control equipment within 3m of the current system location will be minor. Plastic sheeting will be used to ensure stockpiled material will not impact substrate. Each excavation will be reinstated to it previous condition.

In some cases, the current vac pot location has been buried under minor landscape feature e.g., driveways, bird baths or garden beds. In these instances, the disturbance will be minimised and reinstated post works.

c) Any environmental impact on the ecosystems of the locality

There are no impacts expected to or within the ecosystems of the Davistown locality. As previously mentioned, the areas are highly disturbed with little or no natural habitat for fauna usage. Aquatic ecosystems could potentially be impacted if adequate erosion and sediment control measures are not installed and maintained. Providing, all controls within the document are implemented, the impact on local ecosystems will be minimal.

d) Any reduction of the aesthetic, recreational, scientific, or other environmental quality or value of a locality

Minor short-term impacts associated with the construction phase of the project are expected. If the above controls are implemented by staff and contractor there is no expected reduction the quality or value of the locality.

Conversely, the project will decrease sewer discharge into Brisbane waters and ensure sewer usage is maintained during significant rain events. The general net benefit to the environment is positive.

e) Any effect on a locality, place or building having aesthetic anthropological, archaeological, architectural, cultural, historical, scientific, or social significance or other special value for present or future generations

European heritage

The Central Coast Local Environmental Plan has been reviewed identifying 7 items (Table 1). Of these 4 have the potential to be impacted by the works and have been inspected by CCC Heritage Officer Peta James (08/03/2023).

There is no expected impact to the below sites

The items have been reviewed against the NSW Heritage register 27/02/2023

Aboriginal Heritage

f) Any impact on the habitat of protected animals (within the meaning of *Biodiversity Conservation Act 2016*)

No impact to the habitat of protected fauna is expected under this proposal. The activity proposes minimal impact to highly disturbed areas. No bushland, open spaces or trees will be impacted.

g) Any endangering of any species of animal, plant, or other form of life, whether living on land, in water or in the air

No endangering of any species of animal, plant, or other form of life, whether living on land, in water or in the air is expected. The impacts are minor within highly disturbed areas. Any fauna which may utilise the site will have able time to traverse the site unharmed.

h) Any long-term effects on the environment

The small scale of the proposed activity and controls within this document will ensure minor and short-term effects on the environment. Add (AHIP) in response

i) Any degradation of the quality of the environment

The above assessment has considered the impacts the environment. A summary of the assessment considers the overall impacts to be minor and short term. There will be no long-term impacts to the quality of the environment.

j) Any risk to the safety of the environment

Minor risk to the safety of the environment for the duration of the project. The sites will be stabilised to prior condition on completion.

k) Any reduction in the range of beneficial uses of the environment

No reduction is expected to the beneficial uses or and of beneficial use of the environment

l) Any pollution of the environment

The project is expected to reduce occurrences of pollution to Brisbane Waters which occur as sewer discharges during significant rain events. No pollution is likely to occur during or post construction.

m) Any environmental problems associated with the disposal of waste

All waste will be re-used onsite and managed in accordance with the AHIP requirements

n) Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply

No increased demand on finite resources

o) Any cumulative environmental effect with other existing or likely future activities

No impact to existing or future land uses

p) Any impact on coastal processes and coastal hazards, including those under projected climate change conditions

Nil

Section E: Additional Information

<p>Date of site inspection (and attendees)</p>	<p>Multiple</p> <ul style="list-style-type: none"> • CCC – Phil Thuaux, Joanne Mack • Biosis – Charlotte Allen (Consultant Archaeologist) and Crystal Garabedian (Archaeologist) • Registered Aboriginal Parties (RAP) <ul style="list-style-type: none"> ○ GuriNgai - Tracey Howie ○ Darkinjung – Matthew Syron and Jacob Cain ○ Local knowledge holder (Yuin/GuriNgai) - Phil Pullbrooke
<p>Who is the relevant land owner/asset manager?</p>	<p>Multiple asset owners including Council and private residences</p>
<p>Concurrences, approvals, licences and/or permits</p>	<p>Aboriginal Heritage Impact Permit</p>
<p>Consultation</p>	<p>As per phase 1 of the refurb project, letter box drops to be made to all impacted residents across the community. With details and Council contact numbers should stakeholders want additional information.</p>
<p>Other relevant information</p>	<p>NA</p>
<p>Replacement Planting</p>	<p>NA</p>
<p>Project Handover</p>	<p>Project will have site kick off meeting with contractor and Council stakeholders. Agenda for the meeting to communicate the program of works together with identified control measures</p>

Section F: Authorisation

I have assessed the routine work activity in accordance with this Level 2 EA Form and the Environmental Assessment Guideline. The work activity meets the Level 2 EA criteria and has been assessed to have a minor environmental impact.

Register this EA in CCC's corporate record keeping system and use the Precip 'Environmental Assessment – Level 2 – Project Name – Date'. 4Task this EA for approval to an Authorising Officer via a workflow. Ensure that the control measures committed to in this EA are feasible and effectively communicated to those persons who will be undertaking the work activity.

Assessing Officer	Position	Section	Date
Joanne Mack	Environmental Management Coordinator	Environmental Reporting and Emergency Management	21/11/2024

I have reviewed the Environmental Assessment for the work activity and concur with the Environmental Assessment that the work activity is for minor works and will have a minor environmental impact. The activity is approved to proceed in accordance with the control measures committed to within this EA.

Authorising Officer	Position	Section	Date
---------------------	----------	---------	------

Authoriser's Checklist (Optional)

Mairin Ireland Environmental Management Coordinator 10 March 2023

REF Determination Checklist (Optional)

Appendix 1: Threatened Species Assessment

Threatened Species Assessment

Appendix 2: Bulk Fisheries Permit Checklist

Bulk Fisheries Checklist

Appendix 3: Construction Environmental Management Plan

Construction Environmental Management Plan

This document will be created once AHIP has been granted and any conditions included

Introduction

This Construction Environmental Management Plan is to be read in conjunction with the **Name of the Environmental Assessment** and **any other relevant reports, management plans or permits**.

Responsibilities

- **Position Title – Summary of responsibilities (e.g. undertake induction, daily inspections etc.**
- **Position Title – Summary of responsibilities (e.g. undertake induction, daily inspections etc.**
- **Position Title – Summary of responsibilities (e.g. undertake induction, daily inspections etc.**

Licences and Approvals

Discuss any other relevant licences and approvals required for the project (e.g. Fisheries Permit, Acid Sulfate Soil Management Plan etc.) Include relevant document reference numbers.

Advice and Incident Management

For environmental and heritage enquiries during business hours, contact Council's Environmental Reporting Unit. For all environmental and heritage incidents, **Cease** works and contact the Occurrence Hotline on 4350 5789. They will provide advice regarding if any further reporting is required to the NSW Environment Protection Authority, Fisheries or the Office of Environment and Heritage.

Induction, Training and Inspections

- Workers will be inducted with the content of this CEMP at the commencement of works.
- A copy of this CEMP, the Environmental Assessment and the **other relevant document name** will be made available on site.
- Inspections for compliance with this CEMP will be undertaken by **name of responsible person/group** at a frequency of **when? Timing?**.

Environmental Control Measures & Inspection Checklist

Item completed or complied with	Item requires further action or to be done at later date	Non-conformance	Other custom category

Inspected by	Name & Title	Date of inspection	Date
---------------------	--------------	---------------------------	------

Air Quality	
•	Result
•	Result

Water	
•	Result
•	Result

Soil	
•	Result
•	Result

Biodiversity	
•	Result
•	Result

Waste and Energy	
•	Result
•	Result

Socio-Economic

•	Result
•	Result

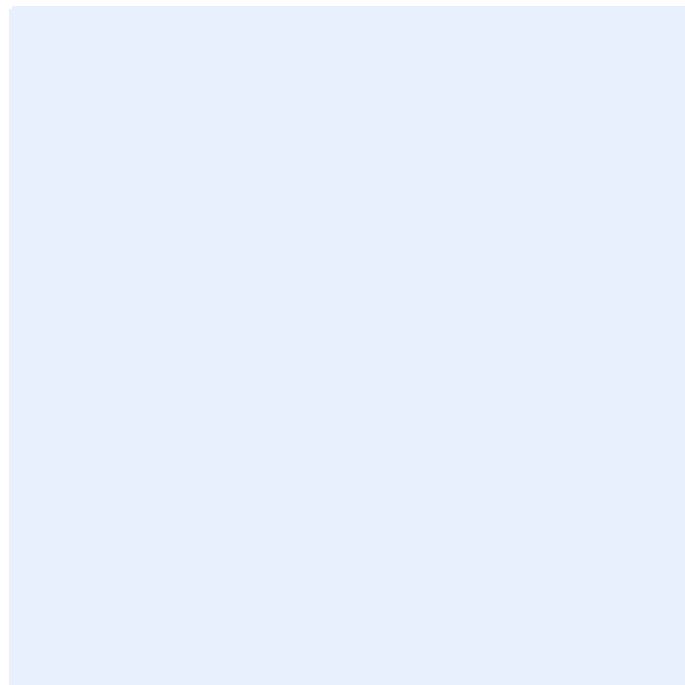
Miscellaneous

•	Result
•	Result

Additional Comments & Control Measures

Type here

Site Map/CEMP Diagram



Appendix 4: Stockpile Site Management Plan

Stockpile Site Management Plan