

MARITIME CONSTRUCTIONS



Cullen Bay - Maintenance Dredging



Emergency Response Plan

Project Name : Cullen Bay - Maintenance Dredging
Project Location : Cullen Bay, Darwin, NT
Client : SMC Marine
Contract No : MANDORAH-WC-030
Internal No. : DP0214

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1 References

Reference in this Emergency Response Plan is made to the latest revision of the following documents:

Client and/or Contract specific procedures, documents, standards

- SMC-DOC-PLN-0002 Dredge and Spoil Disposal Management Plan (Rev 3)

Maritime Constructions specific procedures, documents, standards

- DP0214_ERP Emergency Response Plan – This Document
- MC-IMS 1_Rev2 Integrated Management System Manual

Australian Legislation

- Work Health and Safety Act 2011
- Environment Protection Act 2019
- National Codes of Practice

All other Standards referred to in the Tender.

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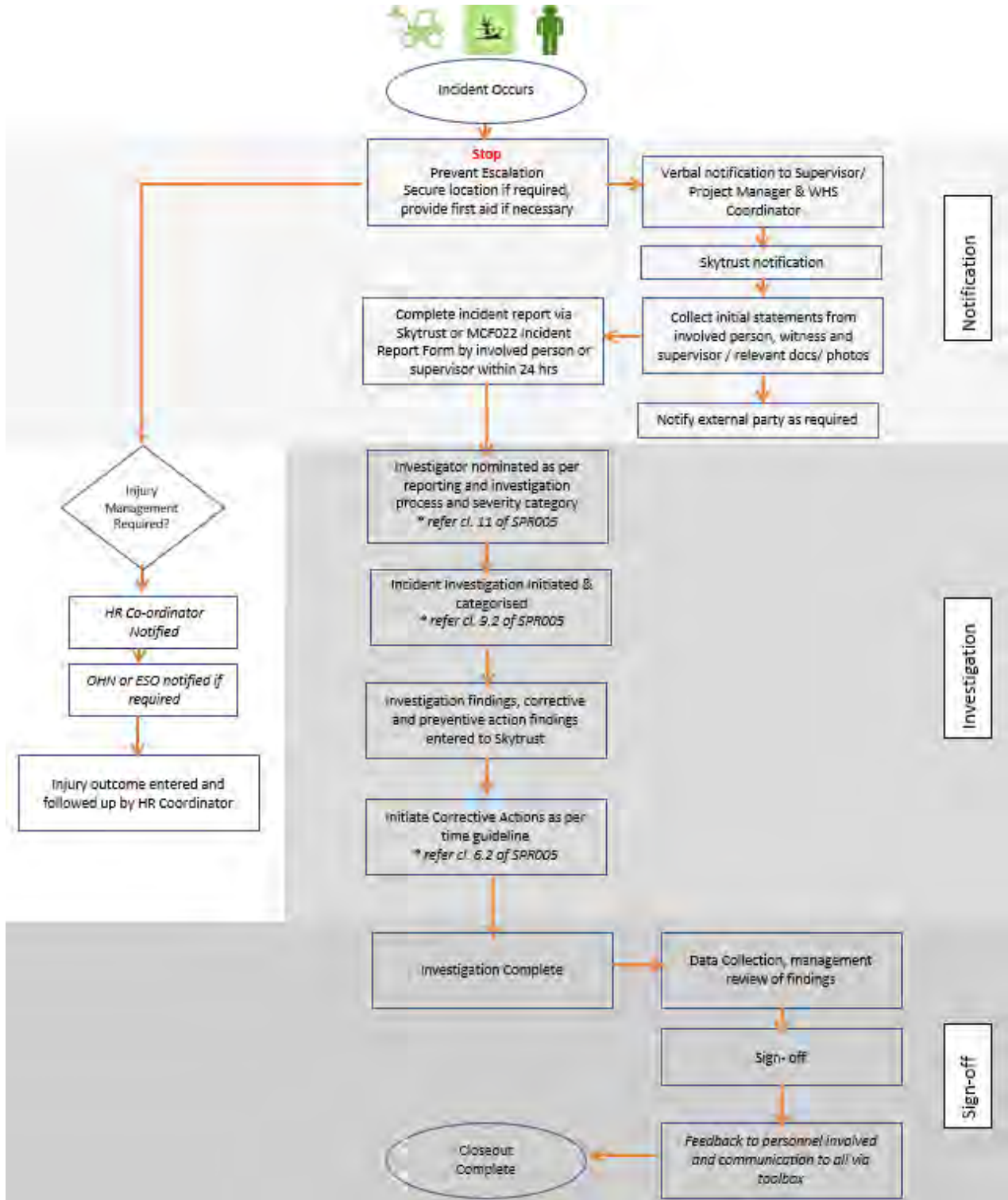
2 Definitions & Abbreviations

TERM	DEFINITION
CONTRACT	DP0214
PROJECT	Cullen Bay - Maintenance Dredging
WORKS	Dredging Works for the PROJECT

ABBREVIATION	WRITTEN IN FULL
DMP	Dredging Management Plan
EPA	Environmental Protection Authority
IMS	Integrated Management System
ITP	Inspection and Test Plan
SWMS	Safe Work Method Statement
MC	Maritime Constructions Pty Ltd
MCDP	MC Dredging & Port Development Pty Ltd
WHS	Work Health and Safety
PMP	Project Management Plan
QA	Quality Assurance
QC	Quality Control
WQMP	Water Quality Management Plan
SES	State Emergency Services

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3 Emergency Response Flow Chart



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4 Emergency Organization

4.1 Emergency Controller

The Emergency Controller (EC) will be the shift Supervisor at the time of the emergency.

If the shift Supervisor is not present:

- Immediate person identifying the emergency is to make radio communications to alert all site personnel

4.2 Muster Points

- Land:
 - **Cullen Bay Lock – Parking Area**
- Marine:
 - 'A-frame' of Ngurunderi (Dredge)



Figure 1 – Land-based muster point near the Cullen Bay car park.

If there is a need for an alternative assembly location this will be determined by the Emergency Controller.

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4.3 Routes from discharge site to muster point

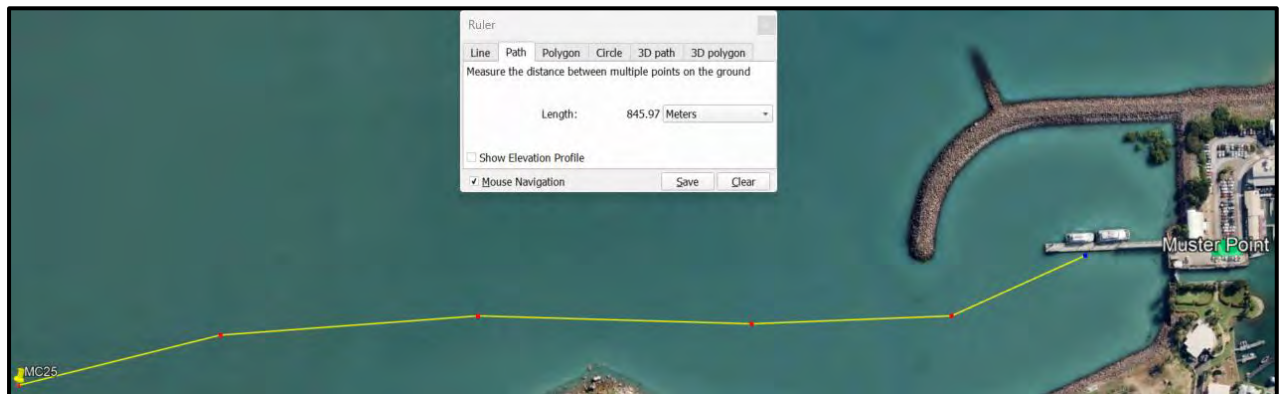


Figure 2 – Route from discharge area to muster point (~850m)

4.4 Emergency Responses

Specific responses to those emergencies assessed as having the highest potential level of risk are identified in the following pages. These responses should be read in conjunction with the responsibilities identified for Emergency Control Organization personnel in Part 3.

4.5 Terminating Emergency Response

The Emergency Controller is the only person who can give the **All Clear** declaration, and then only after consultation with the relevant Emergency Services.

5 EMERGENCY PERSONNEL DUTIES

5.1 Emergency Controller (EC) Duties

On hearing or being notified of an emergency:

- Proceed to the site of the emergency,
- Ascertain the nature and scope of the emergency,
- Ensure the appropriate response is initiated,
- Ensure that the emergency services have been notified and given location details,
- Coordinate site personnel and monitor the response to the emergency,
- Establish communication with emergency services personnel on site.

5.2 Workgroup Duties

On being notified of an emergency:

- Stop work and make your area safe,
- Ensure all persons in designated area are accounted for,
- Proceed to nearest muster point via safest evacuation route,
- Report to the Emergency Controller,
- Assist the Emergency Controller as required.

6 EMERGENCY PROCEDURES

6.1 FIRE

In the event of localised fire at site facility

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The EC shall:

- Upon notification of a fire at the site facility sound alarm and proceed to the nearest muster point and ascertain the personnel at the facility the location of the fire and current wind conditions,
- If safe to do extinguish the fire
- Notify the Fire Service (M/CFS) by calling 000 and advise them of the location of the fire and follow their advice to stay or go,
- Take a roll call to account for all employees and visitors,
- Commence an evacuation of the site if necessary and coordinate the evacuation,
- Notify the all clear once the emergency has passed on advice from Emergency Services Personnel.

All other staff shall:

- On becoming aware of a fire, advise the **EC** of the location and details of the fire,
- Assist any person in immediate danger,
- Commence evacuation of occupants to the Muster point (or alternative evacuation point if directed there by the EC).
- Report to the Chief Warden when the zone has been evacuated.

Vessel fire

- Upon identifying a fire sound alarm and account for personnel on the vessel
- Notify the Supervisor and communicate the details of the emergency, assess the fire and danger to life/vessel (Upon assessment the decision needs to be made to contact emergency services)
- If safe to do so extinguish the fire and notify the Supervisor if/when successful
- If assessed as too dangerous, master and crew are to abandon the vessel using an alternative vessel (tender boat/anchor barge) to move away to a safe area (Site facility/alternative dredge/shore)
- Notify Supervisor of the safe location and follow instructions as directed.

6.2 MEDICAL EMERGENCY

In the event of a medical emergency,

- Assess the response required, Minor Emergency or Major Emergency warranting escalation.
- Utilise radio communications stating Minor Emergency First Aid assistance required or Major Emergency, Emergency Services required. Ensure this is communicated to the Supervisor by yourself or secondary party.
- **MINOR EMERGENCY:**
 - Notify the nearest First Aid person to attend to the injured party, stating the extent of the injury and an assessment of the first aid required.
 - Upon treatment first aider is to assess the need for Emergency Services
- **MAJOR EMERGENCY:**
 - Contact Emergency Services, Notify the nearest First Aid person to attend to the injured party, stating the extent of the injury and an assessment of the aid required. Provide details and meet the ambulance at the boat ramp/land-based muster point or closest and most easily accessible area for the ambulance to get to
- **MAJOR EMERGENCY ISOLATED AREA, Poor Weather conditions.**
 - These factors are critical to timely treatment to the injured party. Supervisor is to assess the requirement to escalate the retrieval of the injured person to the State Emergency Services (SES).
 - Provide Critical information of area and the conditions will need to be communicated to the SES. Weather conditions encountered, Nature of the injury and the retrieval equipment on site (e.g. emergency stretcher etc.) ability of the work group to utilise the Emergency equipment

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available to respond and move the injured party if safe to do so, to the muster point or to the safest accessible area where an ambulance can access quickly.

- Follow instructions given by the emergency services.
- First Aid personnel shall on becoming aware of a medical emergency, collect the closest first aid kit and attend to the injured person,
- If an ambulance is required, contact Emergency Services on 000. *You will be required to provide, your name, exact location, a contact phone number and provide details of the emergency,*
- **DO NOT HANG UP** until told to do so,
- Arrange for a person to meet the ambulance at the nearest intersection or entrance, to direct the Emergency Personnel to where the injured person is located,
- If an ambulance has been called, alert the EC of details and which hospital the injured person was taken to. The closest Hospital to the Cullen Bay facilities is Royal Darwin Hospital - 105 Rocklands Dr, Tiwi NT 0810. (Refer to Figure 03 and see more details in attachment 01).
- EC will contact next of kin and advise them of patient’s location.

Note If the incident requires medical treatment, contact the HR Manager immediately for advice.

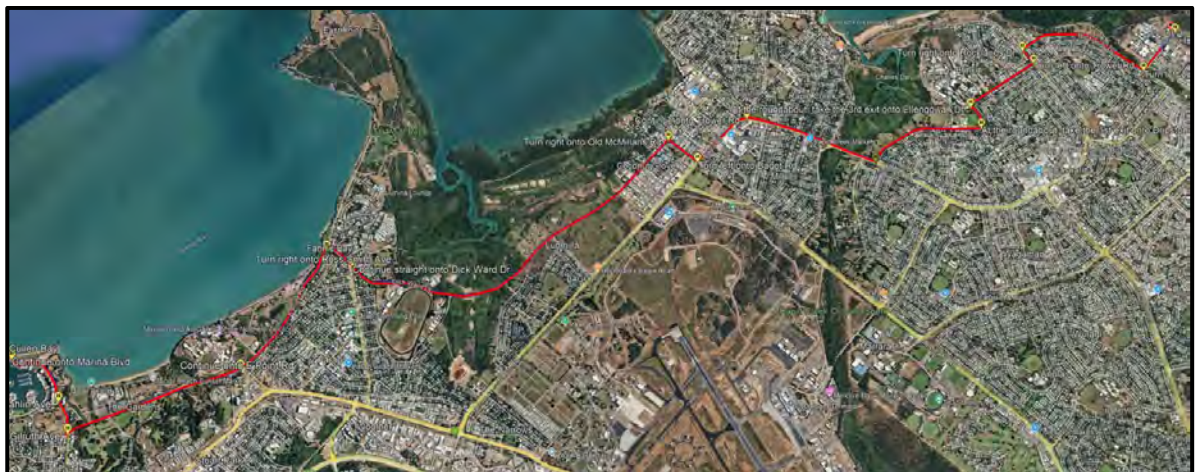


Figure 03 - Fastest route from Cullen Bay Facilities to Royal Darwin Hospital

6.3 HAZARDOUS MATERIALS RELEASE OR GAS LEAK

The EC shall:

- On receipt of a call advising of a hazardous materials spill assess the extent of the spill and determine if external assistance is required to contain it. Seek further advice from the IMS Manager or Project Manager if necessary,
- Should external assistance be required EC will notify the CFS by calling 000 and any other relevant Authorities (e.g. EPA) and provide them with as much information about the hazardous material or gas leak as possible, such as spill containment information on Material Safety Data Sheets,
- Isolate the area affected and ensure people remain upwind,
- If appropriate, commence an evacuation of the affected area and adjacent buildings/properties and coordinate the evacuation,
- If the primary muster point is unsuitable, nominate an appropriate assembly area,
- Notify the all clear once the emergency has passed and on advice from Emergency Services Personnel.

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6.4 ARMED INTRUDER/THREATENING BEHAVIOUR

The EC shall:

- On receipt of a call advising of an armed and dangerous intruder, remain calm and do not do or say anything that may encourage irrational behaviour,
- If possible, notify the Police by dialling 000,
- Note carefully any instructions given by the Police,
- Establish communications with external Emergency Control Personnel if possible,
- Initiate procedures to advise all persons to stay out of sight of the intruder, to remain in their work areas (if safe to do so) until advised otherwise by Emergency Services personnel or Emergency Control personnel,
- Notify the all clear once the emergency has passed, on advice from Emergency Services Personnel.

6.5 STORM / FLOOD / EARTHQUAKE

The Emergency Controller shall:

- On receipt of a call meet at the Site Office to determine best actions to take,
- Notify the NT Fire and Rescue Service & SES and advise them of the nature of the emergency.

Depending on the nature of the emergency:

- If the threat is an earthquake, stay away from any drop off or overhanging stone,
- If the threat is Floodwater meet at muster point and then once all persons are accounted for head to higher ground,
- Establish communications with emergency services,
- Notify the all clear once the emergency has passed, on advice from Emergency Services Personnel.

6.6 FLOODING/SINKING VESSEL

The EC shall:

- Proceed to the site of emergency and assess if assistance is required
- If assistance is required, call for assistance from emergency services (000), sea rescue and/or any MC personnel/vessels, account for all personnel and abandon vessel
- If no assistance is required, round up crew to vessel muster point, account for all crew (head count), isolate area of flooding, and activate pumps
- Contact emergency services and abandon ship if flooding is not controllable
- Notify the all clear once the emergency has passed, on advice from Emergency Services Personnel

6.7 PREDICTED POOR WEATHER CONDITIONS

The Site Supervisor Shall

- Refer to Rough Weather contingency

6.7.1 ROUGH WEATHER CONTINGENCY

Due the sand bar, the entire marina is considered as a safe area, however, in the event where upcoming weather is extremely severe, in which the safety dredging operations are compromised, the rough weather contingency plan shall be to moor the dredge into the **Weather Standby Position** shown in Figure 4, using the port, starboard, stern and storm anchors:

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Figure 4 - Weather mooring locations at Cullen Bay Marina

6.8 PERSONNEL OVERBOARD

- Shout, “MAN OVERBOARD” to get Master or other crew members attention and keep sight of person overboard,
- Throw life buoy if possible,
- Other crew member(s) to mobilize tender vessel and retrieve man overboard.
- All crew to be briefed on evacuation plan,
- Employees to wear PFD type 1, high visibility tops as part of uniform and be equipped with all relevant PPE,
- Visitors/ Service Technicians to be signed in and equipped with relevant PPE and accompanied at all times by MC crew member,
- Only those persons who are holders of Certificates of Competency are to crew the appropriate class of vessel.
- No one to commence work unless vessel induction is carried out.

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7 Emergency Contacts Chart

Project Name: Cullen Bay – Maintenance Dredging

Emergencies

Fire / Police / Ambulance– 000 (112 – By mobile)
 NT Fire Station – (08) 8999 3473
 NT Police Station – 131 444
 Royal Darwin Hospital (08) 8922 8888
 Ambulance Service - 1300 360 455
 Exotic Animal Disease– 1800 675 888

Department of Environment, Parks and Water Security
 (08)8899 5511 (Offices)
 or
 Radio channel 12 (All hours)

EPA
 All hours 1800 623 445

Australian Maritime Safety Authority
 1800 627 484

Client / Principal

Daniel Abbott-Wightman
SMC Marine
 0488 400 273

Contractor

Simon Spencer
Project Manager
 Maritime Constructions Pty Ltd
 0499 777 297

Brad Watts
Project Supervisor/First Aid Officer
 Maritime Constructions PtyLtd
 0428 862 502

Natalie Boots
QHSE Manager
 Maritime Constructions Pty Ltd
 0499 161 688

Simon Spencer
Environmental Manager
 Maritime Constructions Pty Ltd
 0499 777 297

Jennifer Eger
HR Manager (acting)
 Maritime Constructions Pty Ltd
 0438 841 438


Authorities

Kon Vatskalis
 City of Darwin council Rep
 (08) 8930 0300

NT Emergency Services
 132 500

Bureau of Meteorology
 Weather Forecast
 1300 754 389

NT Safe Work
 1800 019 115



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8 Attachments

8.1 Route to Royal Darwin Hospital

Cullen Bay 825

- Take Marina Blvd to Gilruth Ave - 3 min (1.3 km)
- Head north towards Marina Blvd - 120 m
- Continue onto Marina Blvd
- Go through 1 roundabout 800 m
- At the roundabout, continue straight onto Kahlin Ave - 350 m
- Continue on Gilruth Ave. Take E Point Rd, Dick Ward Dr, Trower Rd, Lakeside Dr and Rocklands Dr to Florey Ave in Tiwi - 17 min (14.5 km)
- At the roundabout, take the 1st exit onto Gilruth Ave - 1.8 km
- Continue onto E Point Rd - 1.5 km
- Turn right onto Ross Smith Ave - 350 m
- Continue straight onto Dick Ward Dr - 4.1 km
- Turn right onto Old McMillans Rd - 400 m
- Turn left onto Bagot Rd - 750 m
- Continue onto Trower Rd - 1.4 km
- Turn left onto Lakeside Dr - 1.3 km
- At the roundabout, take the 1st exit onto Dripstone Rd - 290 m
- At the roundabout, take the 3rd exit onto Ellengowan Dr
- Go through 1 roundabout - 950 m
- Turn left onto Trower Rd - 190 m
- Turn right onto Rocklands Dr - 1.5 km
- Continue on Florey Ave to your destination - 1 min (400 m)
- Turn left onto Florey Ave - 290 m
- Turn left
- Destination will be on the left - 88 m

Royal Darwin Hospital - 105 Rocklands Dr, Tiwi NT 0810

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ROYAL DARWIN HOSPITAL CAMPUS

FREE CAR PARKING

- Up to 15 mins Emergency Drop Off

- 7am to 5pm - Patient & Visitor Parking Only
Every day Up to 4 Hours
- Outside these hours - General Free Parking

- General Free Parking

- + Emergency Department Entry & Drop Off
- ♿ Disabled Parking
Valid disabled permit displayed
- 🏍 Motorcycles
- 🚌 Bus Stop
- 🚕 Taxi
- 🚲 Public Bike Racks 🚲 Staff Bike Racks
- Covered Walkways

Penalties will apply for non-compliance in accordance with by-laws.

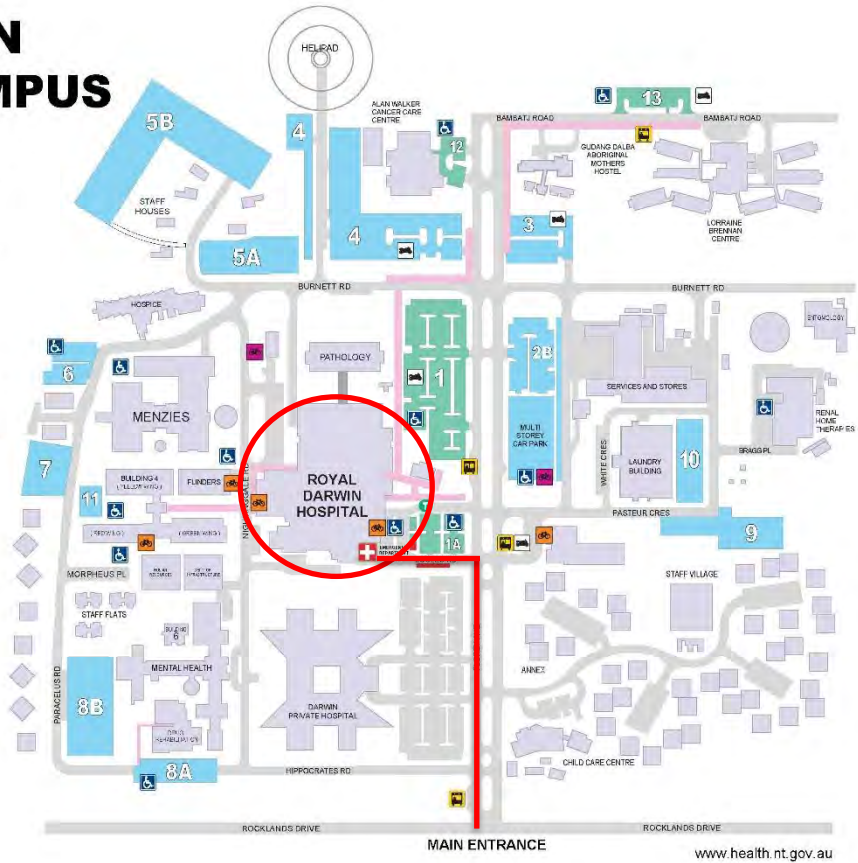


Figure 5: Royal Darwin Hospital Campus Map