Climate Impact Assessment

CEN-3032-25

20-03-2025

Central Park Improvements Programme

Project details

Assessment author

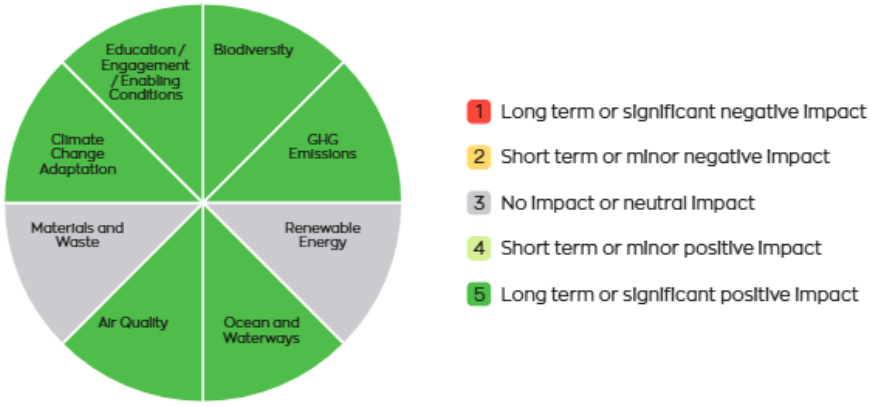
Liza Oxford

Project summary

A Sustainable Drainage System (SuDS) has been installed in Central Park to reduce flooding in the park and surrounding catchment. The scheme, which is a model nature-based solution could be replicated across the city.

The scheme consists of new drainage channels down Coronation Avenue, two attenuation ponds and hydrobrakes to control the flow of water from the ponds.

Summary of assessment



-

Assessment scores

Biodiversity

Score

(5) Long lasting or extensive positive impact

Score justification

The project will provide a nature based solution to alleviate flood risks at the bottom of the park. The scheme

includes extensive planting and landscaping to fulfil and exceed the Biodiversity Net Gain (BNG) targets.

Mitigatory measures applied:

The creation of two attenuation ponds and swales to slow the flow of water running down Coronation Avenue and off the fields have been created to both mitigate and adapt to our changing climate.

GHG Emissions

Score

(5) Long lasting or extensive positive impact

Score justification

Very little canopy cover has been removed to create the alleviation ponds, New trees are being planted where there were no trees previously.

Mitigatory measures applied:

Planting more trees
Landscaping and planting

Renewable Energy

Score

(3) No impact or neutral impact

Score justification

The project will have no impact.

Ocean and Waterways

Score

(5) Long lasting or extensive positive impact

Score justification

The water will be captured in alleviation ponds and will reduce the flooding and sewer overflows that have previously occurred in the area.

Air Quality

Score

(5) Long lasting or extensive positive impact

Score justification

The project includes increasing vegetation and ground cover, planting trees and landscaping to contribute to better air quality in the park.

Materials and Waste

Score

(3) No impact or neutral impact

Score justification

The project will have no impact.

Climate Change Adaptation

Score

(5) Long lasting or extensive positive impact

Score justification

This project will lead to long term management of flood risk in the Barn Park area. There are built in systems to the scheme that can help to mitigate such as a hydro brake system to further slow the over flow of water

Education / Engagement / Enabling Conditions

Score

(5) Long lasting or extensive positive impact

Score justification

We already work with schools, residents, community groups and volunteers in the park. Educational and awareness raising walks and volunteering days are a regular activity.