

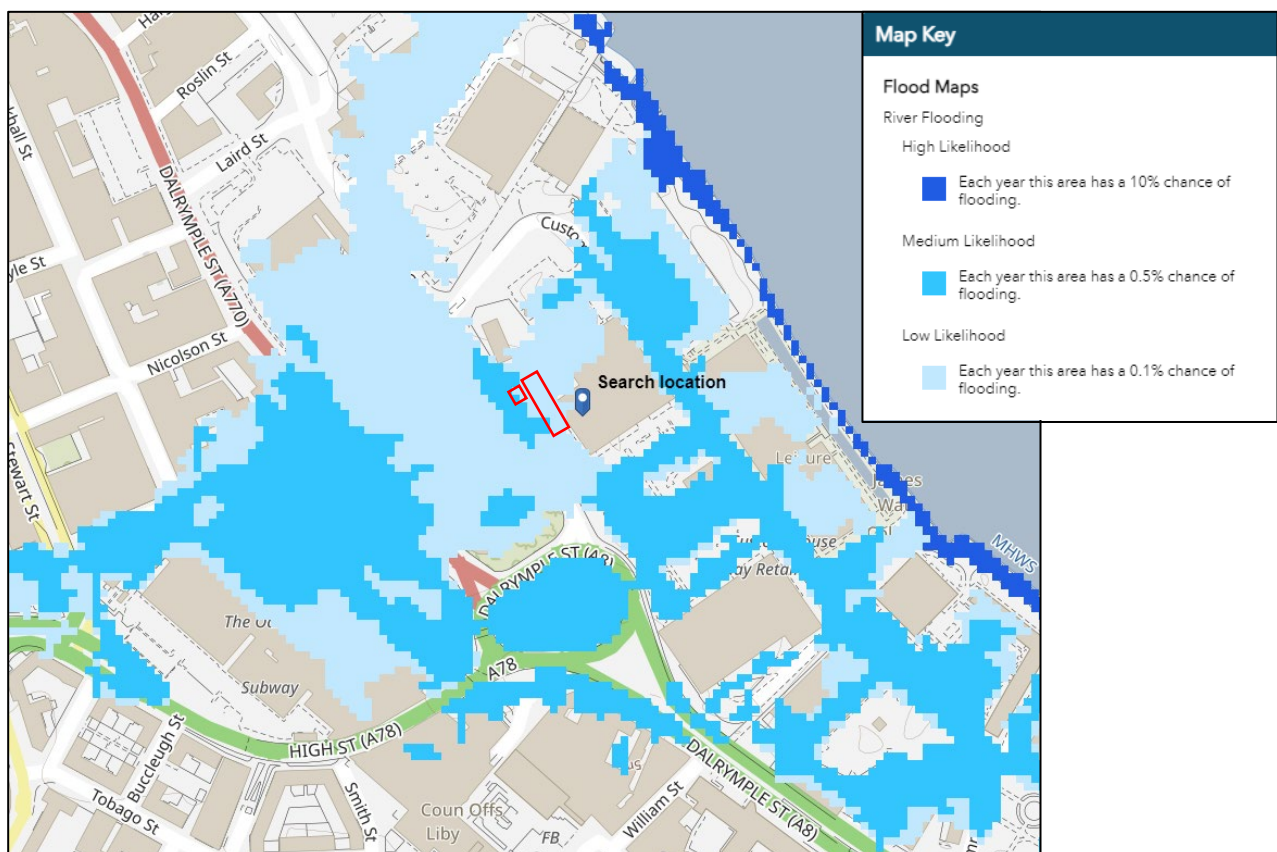
Flood Risk Assessment

Introduction

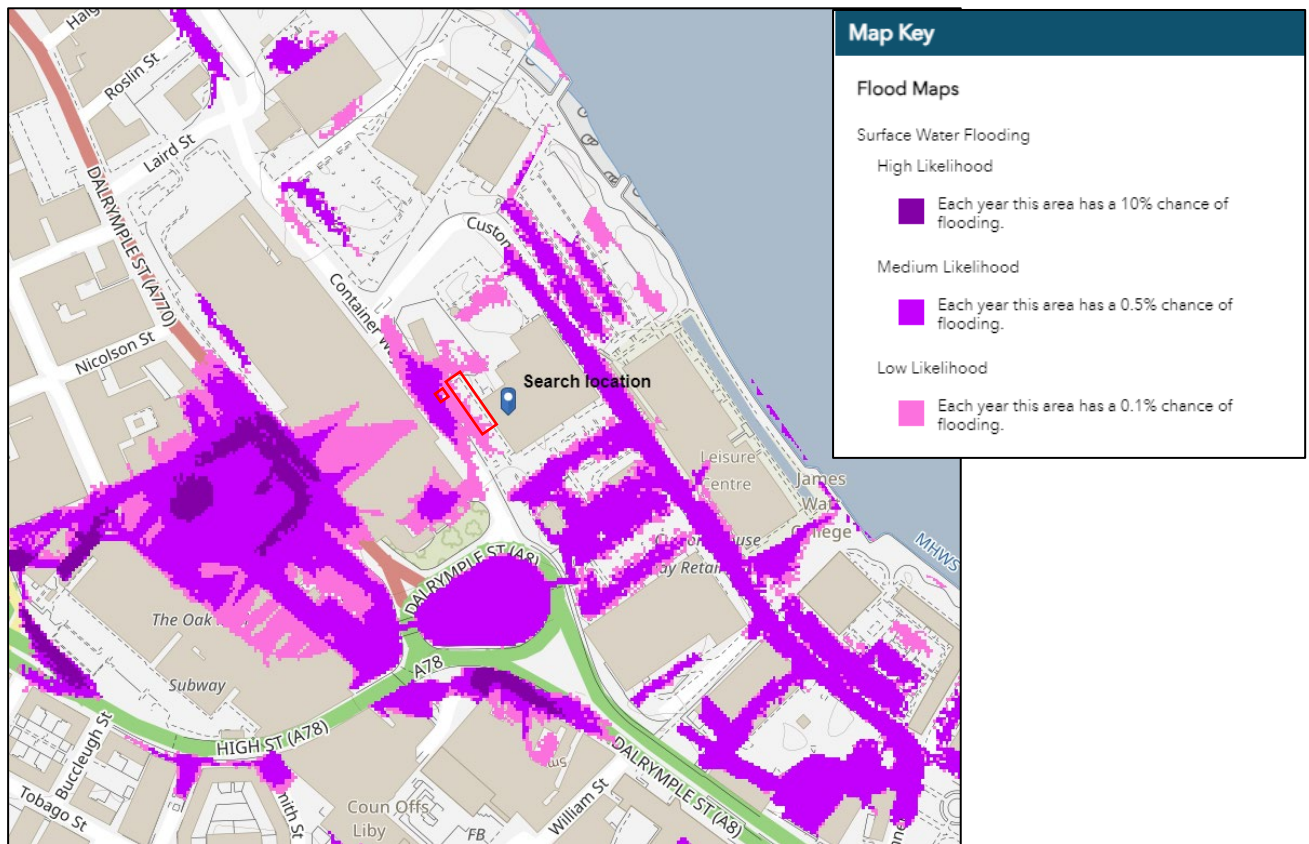
The EV Network are proposing to install 5 ultra rapid electric vehicle charging stations at Waterfront Retail Park, Custom House Way, Greenock PA15 1EG.

The Site

The Scottish Environment Protection Agency Flood Map highlights the site as being within an area with low likelihood of River Flooding with areas of medium likelihood nearby. Site is shown with a red box.



The site also has some small sections of Low Likelihood areas for Surface Water Flooding with most of the site not susceptible to Surface Water Flooding



The site is not impacted by Coastal Flooding.

Flood Risk Assessment

The proposed installation will not have any impact on the hydrodynamic regime which currently exists on the site and the surrounding area. There will be a small amount of concrete installed for the foundations of the units and the associated electrical equipment such as the substation, however this will not have any significant impact on the surface runoff associated with the site. The existing parking spaces are already hardstanding with a mixture of paving and concrete used across the site and this will not be changed. The drainage which already occurs on the site will continue to operate as normal and will not be affected by the development. Given the scale of the development is small and the change to surface materials is very minor, there will be no impact on the existing hydrodynamic regime and therefore no increase in flood risk to the surrounding area.

In addition, the proposed infrastructure is raised off the ground to increase flood resistance. Equipment in the feeder pillar is at least 350mm above ground level as dictated by DNO installation guidelines. Further to this, there are many safety features built into the chargers

which mean they would shut down in the event of a flood to protect the equipment. We are also able to remotely shut down the chargers in the event of an emergency or a developing flood situation.

Conclusion

The ultra-rapid chargers proposed at Waterfront Retail Park provide customers with a safe and efficient charge and also mean that customers do not have to spend extra time waiting for their vehicle to charge and are able to quickly continue their journey. The proposed site does not increase the flood risk in the surrounding area. The equipment has a certain level of built in flood protection and various safety measures installed as standard which means the equipment is protected in the event of a flood. Considering the information provided in this report, Waterfront Retail Park is a suitable location for the charging stations.