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Objectives

Welcome to Scottish Water's information event about plans for the waste water treatment works and the infrastructure in Ardersier.

The objectives of the session are:

- To provide information on the planned work
- To gather feedback from the community

We have information on:

- What we need to do and why
- The four elements of the work
- What happens next

We want to hear your views on:

- How we manage the extra traffic during the projects
- How we minimise the impact on the community during the work
- How we minimise the impact on the environment during the work
- How we make sure we leave all areas we are working in the same, or better, condition than before we started

We want to continue to speak and listen to you throughout the project and will post regular updates on our dedicated webpage: www.scottishwater.co.uk/ardersier



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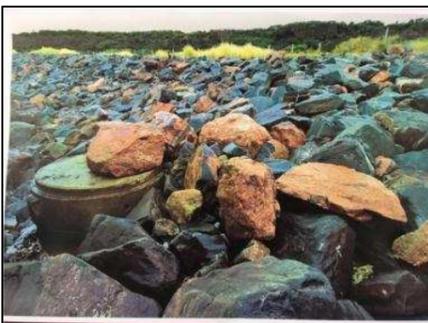
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Planned upgrade to your waste water system in Ardersier

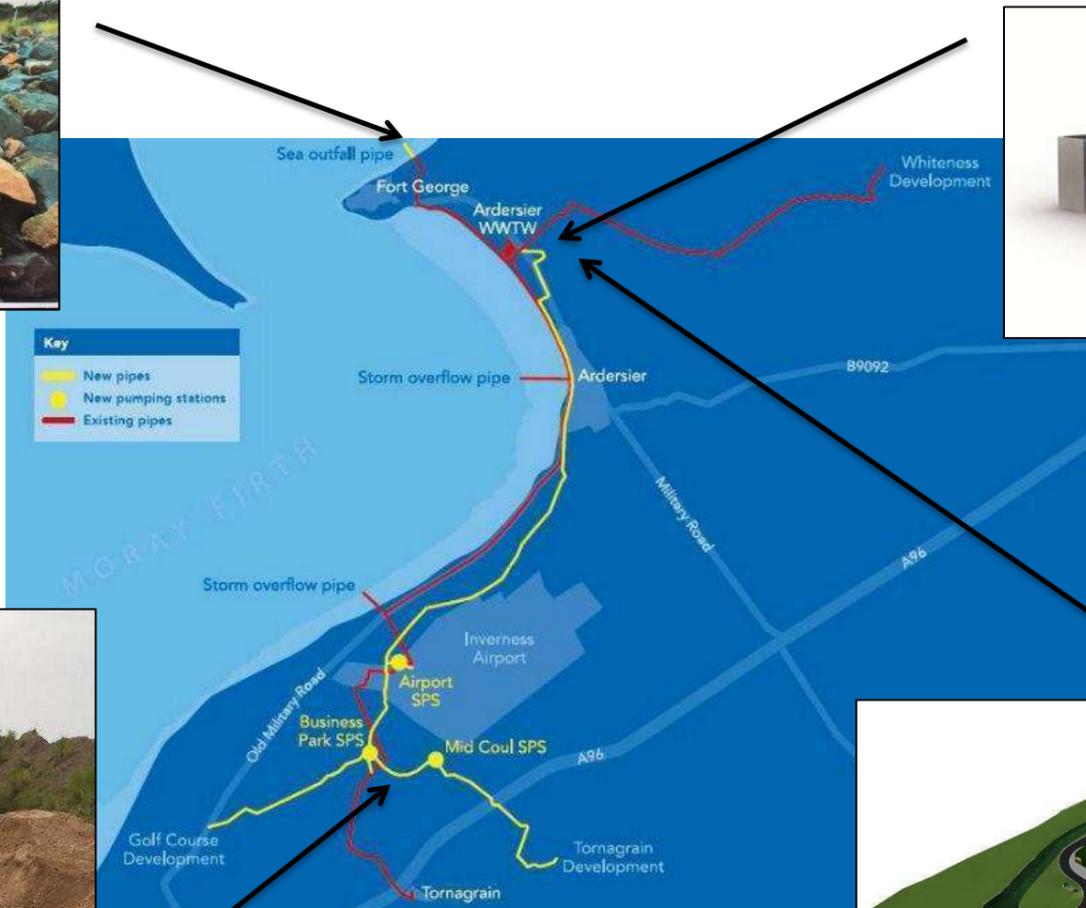
Scottish Water is planning improvements to our essential infrastructure in the Ardersier area. There are four elements to this project:

Element	Driver
Installation of UV at the existing works	To protect and improve the environment of the Moray Firth and bottlenose dolphin habitat
Extension of the existing sea outfall pipe by 300 metres	
Upgrade of the waste water treatment works	To support economic growth planned for the A96 corridor.
Installation of the new sewer pipelines	

Extension of outfall



UV installation at WWTW



New pipelines

Upgrade of WWTW



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Why are these works necessary in Ardersier?

The options were considered in the 2010 Environmental Impact Assessment.

Allanfearn waste water treatment works and Nairn waste water treatment works are not suitable.

- Allanfearn is operating near to capacity
- The Allanfearn site is very constrained for expansion
- Nairn waste water treatment works is too far away
- Longer pipelines and more pumping would be required to both sites.

Ardersier is where our existing waste water treatment works for the area is located. All of the waste water from the area (including the existing Tornagrain village and Inverness Airport) is currently transferred to and treated at this works.

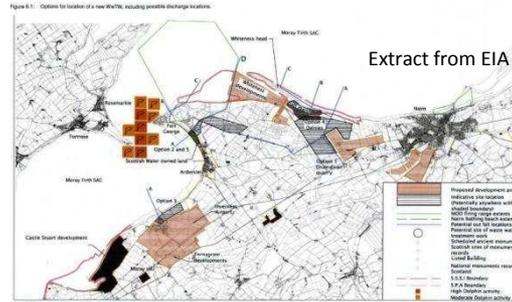
The planning application submitted in 2010 included wide consultation and a full Environmental Statement. Planning permission was granted in 2011.

A96 Drainage Strategy – Consultation Completed 2011

Information

Key Supporting Documents:

- Highland Council - SEA
- Scottish Water – EIA
- Biwater A96 Options Study 2007



New Sites Considered:

1. Blackcastle/Drumdivan Quarry
2. Ardersier WWTW (area)
3. Inverness Airport Industrial Estate or Fisherton Area
4. Delnies Area – west of Nairn and north of B9092 road
5. Ardersier WWTW with outfall locations as options 1 & 4

**Assessment Outcome:
Ardersier WWTW**

Allanfearn:

Inverness & North Kessock Catchment

1. Significant Growth within the catchment - including Ness Castle, Gateway Developments linked to this PFI catchment and limited space to expand the plant.



2. Site is constrained with railway, sea and Allanfearn Barrows – a scheduled ancient monument.
3. Existing capacity is limited with periodic dosing of chemicals to maintain compliance.
4. Sludge treatment centre – increasing sludge import/ liquors load
5. PFI Contract scheduled to expire in 2021 – commercial challenges
6. Additional pumping head and distance to A96 developments



Ardersier:



Ardersier Catchment

1. Principal development sites are within the existing WWTW catchment
2. Scottish Water owns sufficient land to support phased expansion of the works to meet development demands.
3. Planning approved following full EIA in 2011
4. Connection already made for Whiteness
5. Final Effluent Quality & Standards improvements 2017 to extend the outfall and install UV treatment.
6. Phase 1 growth planned to which will address the need for complex planned capital maintenance on the current single stream treatment process.
7. New Airport rising mains will reduce CSO spills into bay at Ardersier.

Nairn:



Nairn Catchment

1. Distance from A96 developments .
2. Bathing Water sensitivity
3. Existing capacity is limited and needed to support development in existing catchment.
4. Site access via caravan park, next to the bathing beach car park and golf course

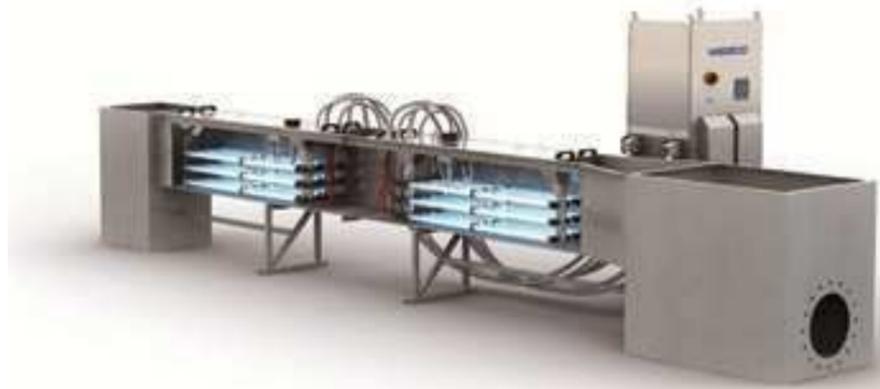


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UV Installation

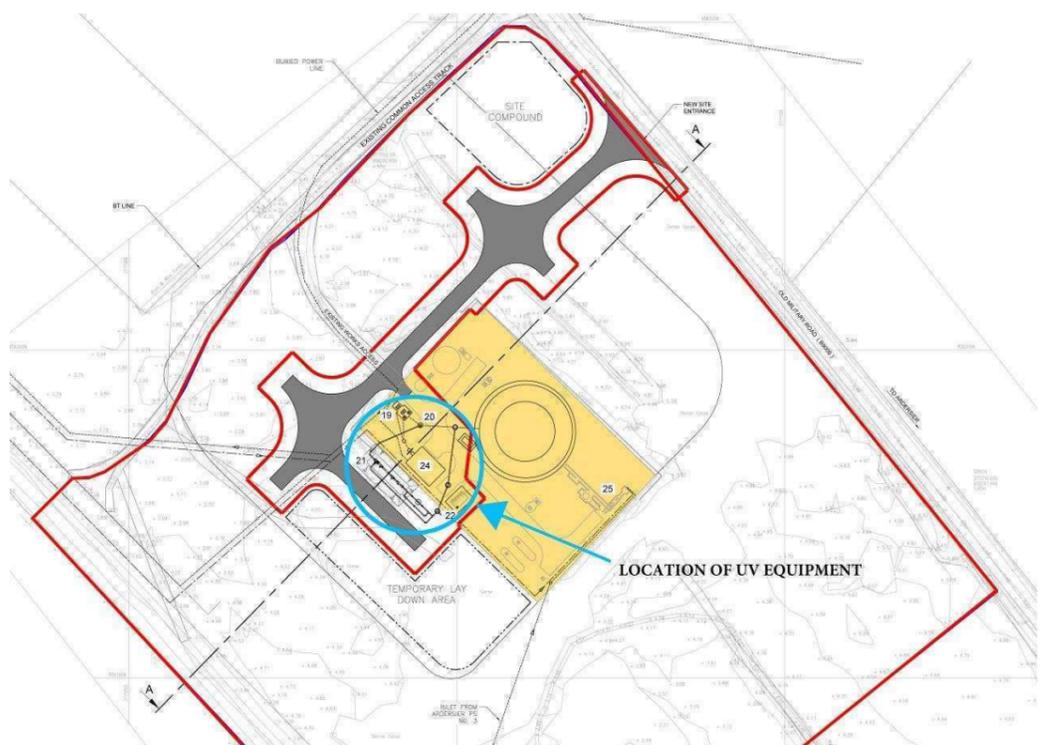
We are installing a new UV treatment facility at the existing treatment works. This will help protect dolphins in the Moray Firth by improving the disinfection of the waste water before it is returned to the environment.



The UV equipment will look similar to this but will be mainly below ground.

The programme for the UV project is planned to commence in late August/early September 2016 and be completed by March 2017.

The UV facility is located to the west boundary of the existing works, within Scottish Water-owned land.





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Growth upgrade of waste water treatment works

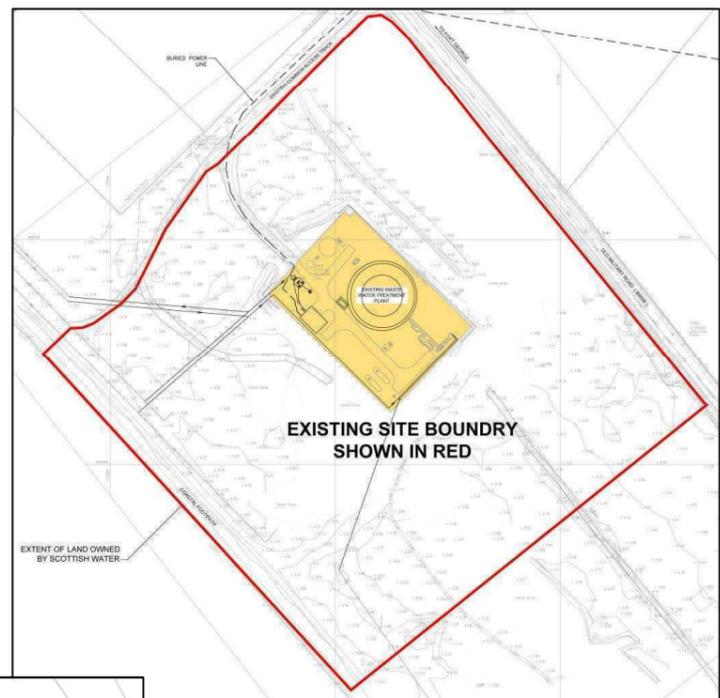
We are upgrading the existing waste water treatment works to ensure it has capacity to support the planned growth within the local area including Tornagrain and Inverness Airport. All work to upgrade and increase the capacity of the existing waste water treatment works will be carried out on land owned by Scottish Water.

Our existing site is shown to the right.

The boundary is shown in red. The existing works area is highlighted in orange.

Our proposed site is shown below. The boundary has not changed. The dark green areas depict bunding and landscaped areas proposed to help blend the works sensitively into its local surroundings.

We plan to start this project in Spring 2017 and complete by May 2018.



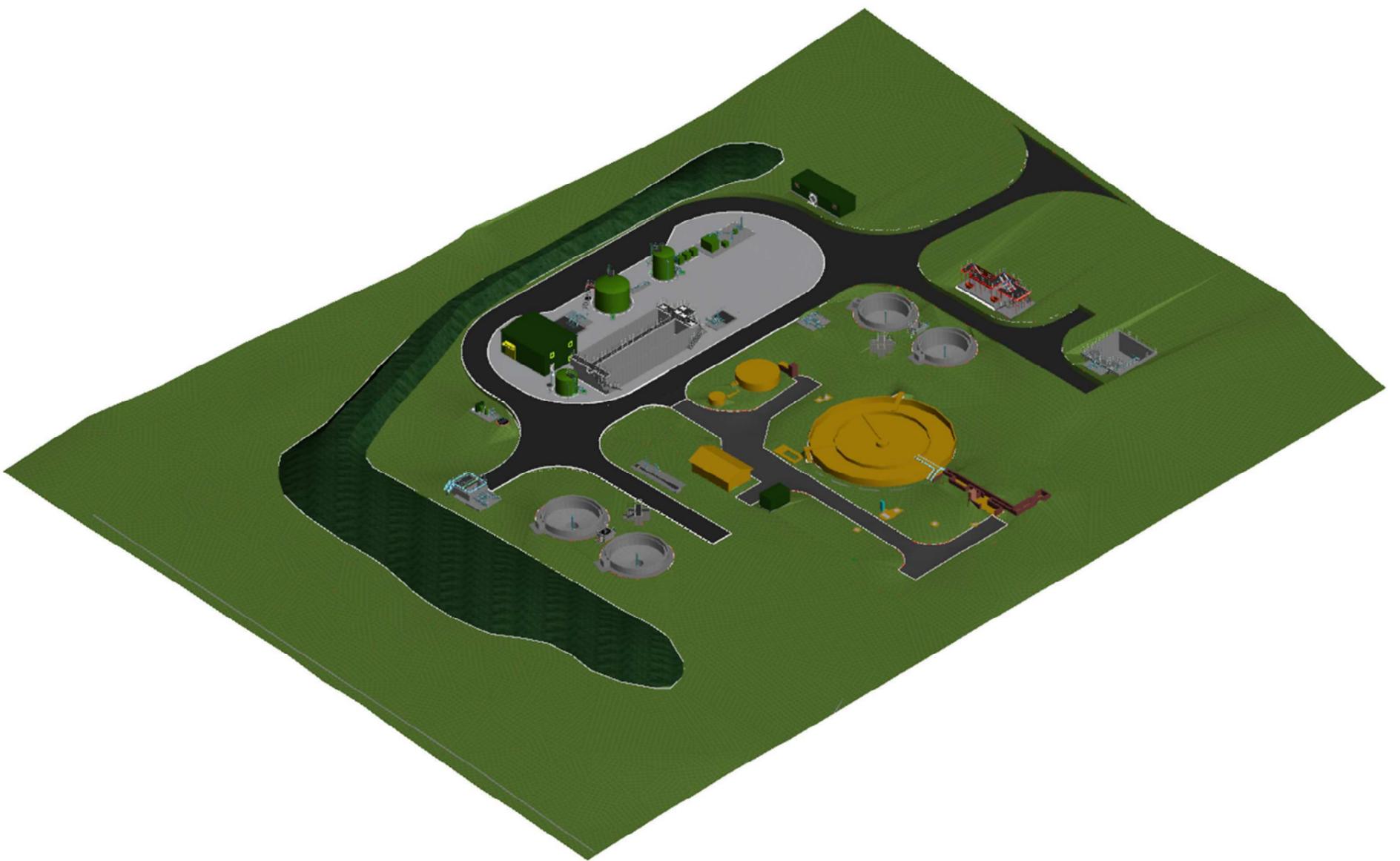


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Growth upgrade of waste water treatment works

3D model of the proposed site



As part of the original planning application at the Ardersier site, an environmental impact assessment was carried out which includes assessments of how the works would be undertaken. A copy of this is available at www.scottishwater.co.uk/ardersier.

The current odour management plan for the existing Ardersier waste water treatment works can also be seen found on this webpage.

As our design progresses we may need to submit amendments to our current planning application. We will keep the community updated with any changes.



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Extension of the sea outfall pipe

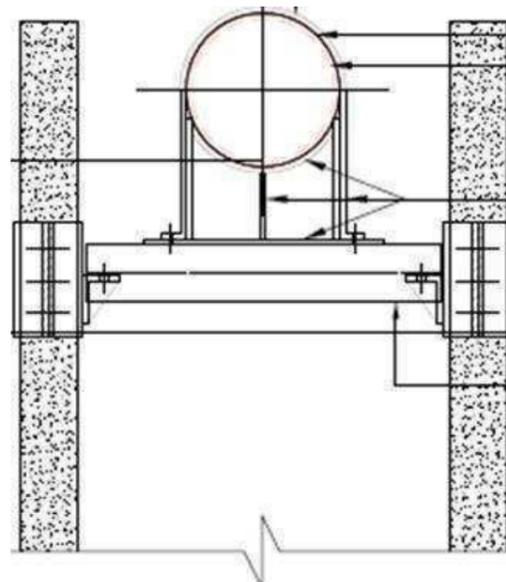
We are extending the outfall pipe with a new, longer outfall pipe. This will take the treated final effluent from the upgraded waste water treatment works further out to sea (by 300 meters) into deeper water.

The new outfall into the Moray Firth will replace the existing discharge from the existing manhole on the foreshore which has suffered storm damage, as shown to the right.



The design of the outfall is still underway. To ensure the outfall isn't damaged by future storm conditions it will need to be secured to the seabed.

We may need to apply for further planning permission for the outfall.





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Installation of new pipework

We are constructing a new underground pipeline to provide the necessary waste water infrastructure to support the planned growth along the A96 corridor, in particular to support the proposed creation of Tornagrain New Town.



The pipeline has been designed to follow the same route as existing pipework through Ardersier where possible.

The route of the pipeline carries along the coastal path. This work will be carried out in sections with diversions in place to allow use of the path.



Pipeline construction



Pipeline after reinstatement



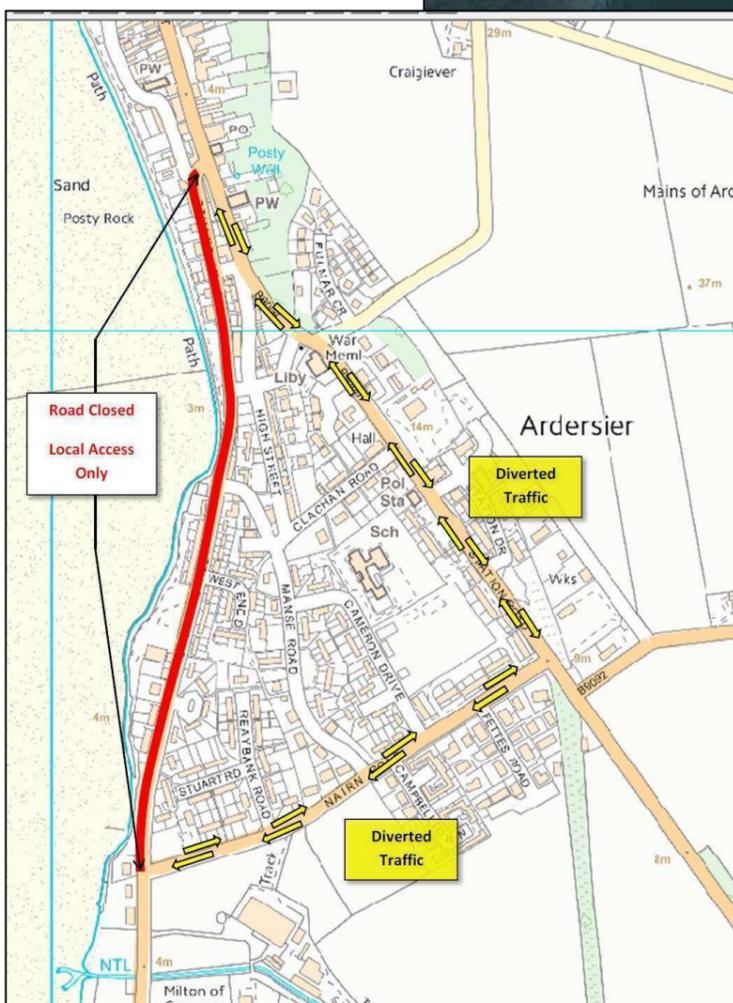
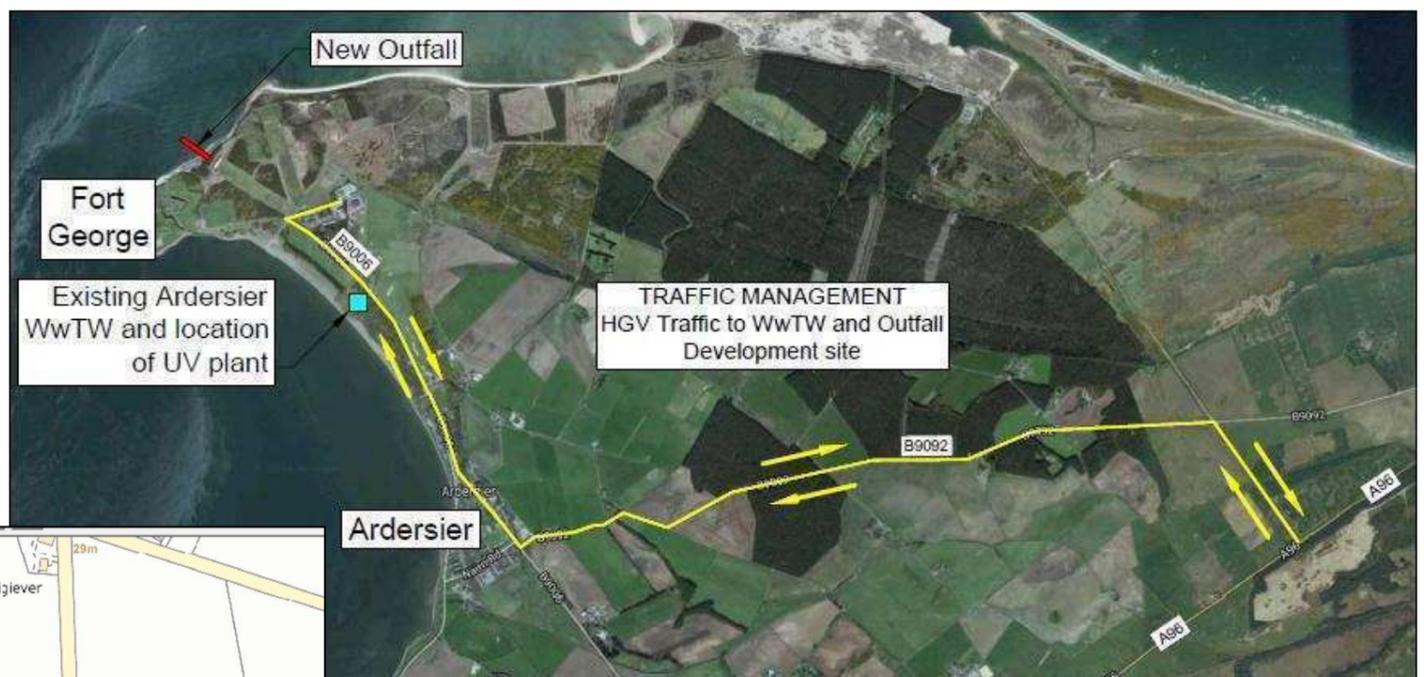
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Traffic management during the works

We realise that there will be increased traffic while we are carrying out this work. We have already discussed plans to manage the construction traffic with Highland Council and would like to discuss this with you too.

While there are no road closures required for the growth, UV and outfall works, there will be a traffic management plan in place to alleviate disruption from heavy goods vehicles and other site transport. Much of the equipment for upgrading the waste water treatment works will be fabricated off-site then delivered pre-constructed, reducing the number of deliveries. We will plan our works as much as possible to minimise the amount of vehicles passing through the village.



The pipeline works will require a road closure on Stuart Street for approximately 15 weeks. Although the road will be closed to through traffic, residents will have access as the works will be carried out in sections along the street.

We will keep all residents fully up to date on the start dates and the progress of each phase. We would like your views on the timing of the work to ensure we do it at a time to minimise the impact on your village. We have already agreed with the Community Council that we will keep the road open during the military tattoo at Fort George.



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What happens next?

- We will consider all the feedback received
- We will write to you to provide a further update
- We will hold weekly drop in events
- We will give you a dedicated point of contact
- We will discuss the work regularly with your Councillors, Community Councils, MSPs and MP
- We will hold further information events and are happy to attend public meetings

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