

update

14th May- 6th July 2012

Three Emerging Preferred Site Options Shortlisted for Further Consideration for Wastewater Treatment Plant

What is happening now?

Fingal County Council has published a report, the *Alternative Sites Assessment and Route Selection Report (Phase 2): Emerging Preferred Sites and Routes*. This report identifies three emerging preferred site options for further consideration as the location for Greater Dublin Drainage.

The three emerging preferred site options for further consideration are:

Annsbrook

Clonshagh

Newtowncorduff

The *Alternative Sites Assessment and Route Selection Report (Phase 2): Emerging Preferred Sites and Routes* and associated mapping can be downloaded at www.greaterdublindrainage.ie/project-reports/. This report sets out the process used to identify and appraise the site options, i.e. the site for the WwTP, pipeline routes, and outfall locations. Each of the nine site options is discussed in detail.

As part of the report's publication, Fingal County Council has now launched an eight week non-statutory public consultation, which runs from 14th May until 6th July 2012; more details of how you can get involved are available inside.

The purpose of this information brochure is to

- ▶ Update you on the project's development
- ▶ Invite you to participate in a new round of consultation on the three emerging preferred site options
- ▶ Provide you with background information on the project



How were the three emerging preferred site options identified?

Since the close of the first ASA Consultation (10th October to 2nd December 2011), the Technical Team has been engaged in a step-by-step, qualitative process to identify the three emerging preferred site options. The environmental and technical criteria used in this process included:

- Agronomy and Agriculture
- Air Quality and Odour
- Capital and Operational Costs
- Cultural Heritage
- Ecology
- Engineering and Design
- Hydrology and Hydrogeology
- Landscape and Visual
- Noise and Vibration
- People and Communities
- Planning Policy
- Safety
- Soils and Geology
- Sustainability
- Traffic

The methodology involved an iterative (step-by-step) process from which sites with the least impact emerged. This process involved a combination of detailed surveys, consultations, and workshops to assess each site under the aforementioned criteria.

More detailed information on the methodology can be found in the FAQs and the Methodology Report at www.greaterdublindrainage.ie/project-reports/.

What happens next?

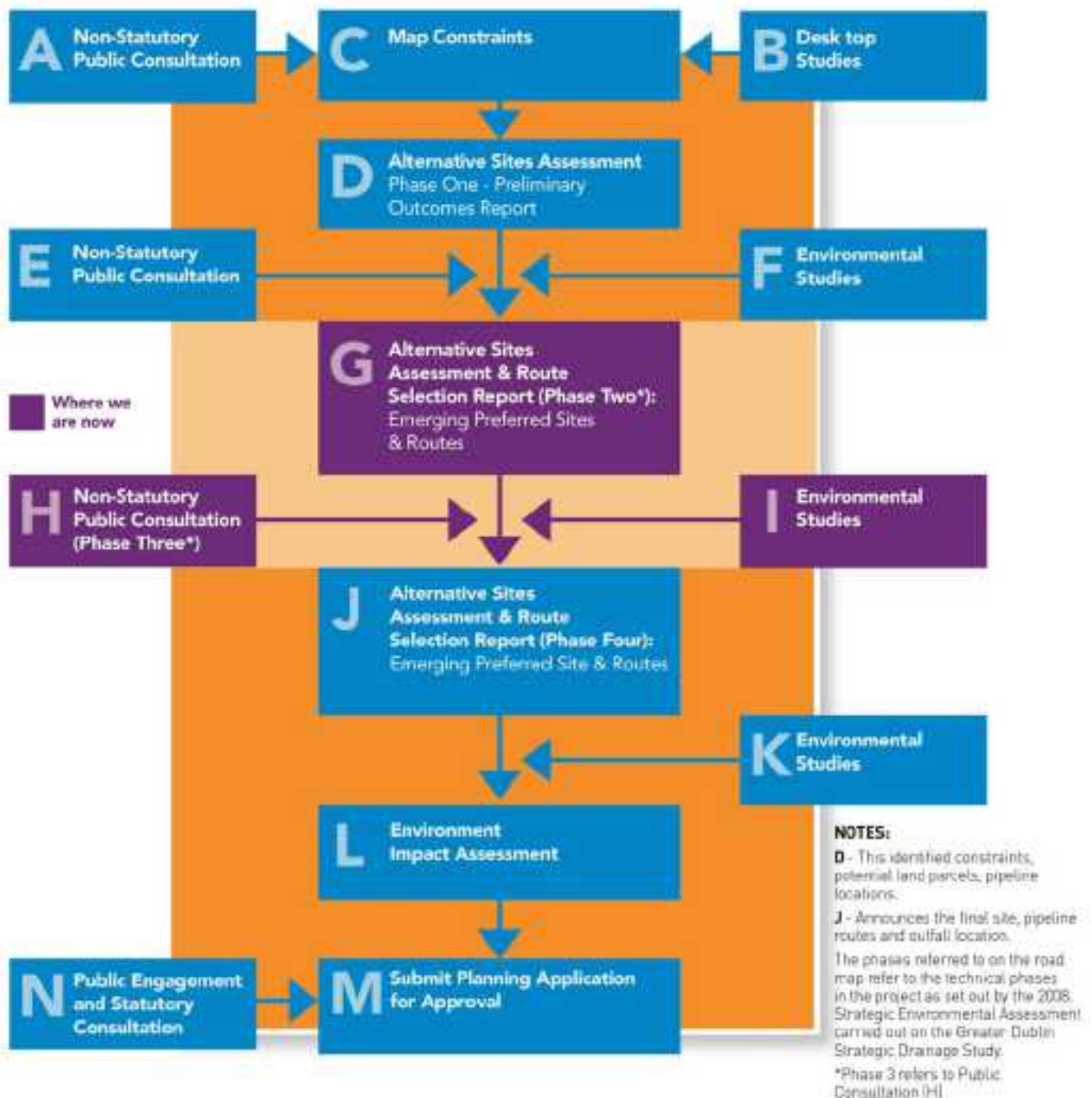
To date, this is the third in a series of non-statutory consultations to take place. This is the final non-statutory consultation opportunity before the statutory consultation, run by An Bord Pleanála, takes place when the Project Team has made an application (Please see Project Road Map).

All feedback received as part of this eight week non-statutory consultation, will be reviewed and collated into a Consultation Report, which will be published after the close of the consultation.

The feedback will be reviewed and considered by the Technical Team as it moves towards the selection of a preferred site, orbital pipeline route, and marine outfall location for Greater Dublin Drainage.

A "site option" includes an approximately 20Ha site, associated orbital pipeline routes from the load centres to the wastewater treatment plant (WwTP), pipeline routes from the WwTP to the coast, marine pipeline routes, and a marine outfall location. A final preferred site option has not yet been chosen.

Project Road Map





What is happening now: Public Consultation Opportunity on Three Emerging Preferred Site Options

How can I get involved?

Fingal County Council is now undertaking an eight week non-statutory consultation and all interested parties are welcome to give their views on the three emerging preferred site options. **The consultation will run from Monday, 14th May to Friday, 6th July 2012.**

This non-statutory consultation will provide all interested people and groups with an opportunity to engage with the Project Team as part of the final site option selection process. All feedback and submissions will be reviewed as part of the development of Greater Dublin Drainage.

You are welcome to attend any of four Open Days to be held in Fingal County Council, Main Street, Swords. The Project Team will be available to discuss the report, answer your questions, and listen to your views.

Open Days

- Wednesday, 30th May, 2:00 p.m. to 8:00 p.m.
- Saturday, 2nd June, 11:00 a.m. to 4:00 p.m.
- Thursday, 14th June, 2:00 p.m. to 8:00 p.m.
- Saturday, 16th June, 11:00 a.m. to 4:00 p.m.

In order to ensure stakeholder feedback is considered in advance of the project moving to the next phase, **all feedback for this consultation should be received by 5:00 p.m. on Friday, 6th July 2012.**

For further information or to make a submission, please:

Email: info@greaterdublindrainage.ie

Lo-call telephone: 1890 44 55 67

Write: Greater Dublin Drainage Project Manager, c/o RPS Group, West Pier Business Campus, Dún Laoghaire, Co. Dublin, Ireland

Visit: www.greaterdublindrainage.ie

What is being consulted on?

Fingal County Council would like to hear your views on the following:

Site Options

- What are your comments on the emerging preferred site options?

Methodology

- Has all relevant criteria been considered when determining the three emerging preferred site options?
- Is there anything else you think should be reviewed and considered?

Final Site Selection

- What do you think should be considered as part of the selection for the final preferred site route and outfall?

Any other comments?

- How would you like to be communicated with as the project progresses?
- If you have any other information you believe is relevant to the development of the project please let us know.



Project Background and Information

What is Greater Dublin Drainage?

Greater Dublin Drainage, which includes a new regional treatment plant with associated marine outfall and orbital sewer, is required to provide the Greater Dublin Area (GDA) with the strategic wastewater infrastructure required to continue to develop, both socially and economically.

The project involves developing a new:

- regional wastewater treatment works;
- marine outfall; and
- drainage network.

Why is it needed?

Greater Dublin Drainage is needed to provide sustainable drainage and wastewater treatment for the GDA to meet current and future economic, industrial, and residential needs. It will help protect the environment and will enable Ireland to meet the EU Water Framework Directive standards.

What has happened so far?

Fingal County Council has been engaged in the planning of a new regional wastewater treatment works, an associated marine outfall, and an orbital sewer to be located in North County Dublin since April 2011.

In May 2011, the first public consultation (Constraints Consultation) was launched and this consultation invited members of the public to comment on the proposed study area and provide information on constraints that should be considered as the project develops.

All feedback was considered by the Technical Team and in October 2011 the *Alternative Sites Assessment (Phase 1): Preliminary Screening Outcomes Report* was published. This report identified nine potential land parcels for further consideration. The nine short-listed land parcels included Annsbrook, Baldurgan, Cloghran, Clonshagh, Cookstown, Newtowncorduff, Rathartan, Saucerstown, and Tyrrelstown Little.

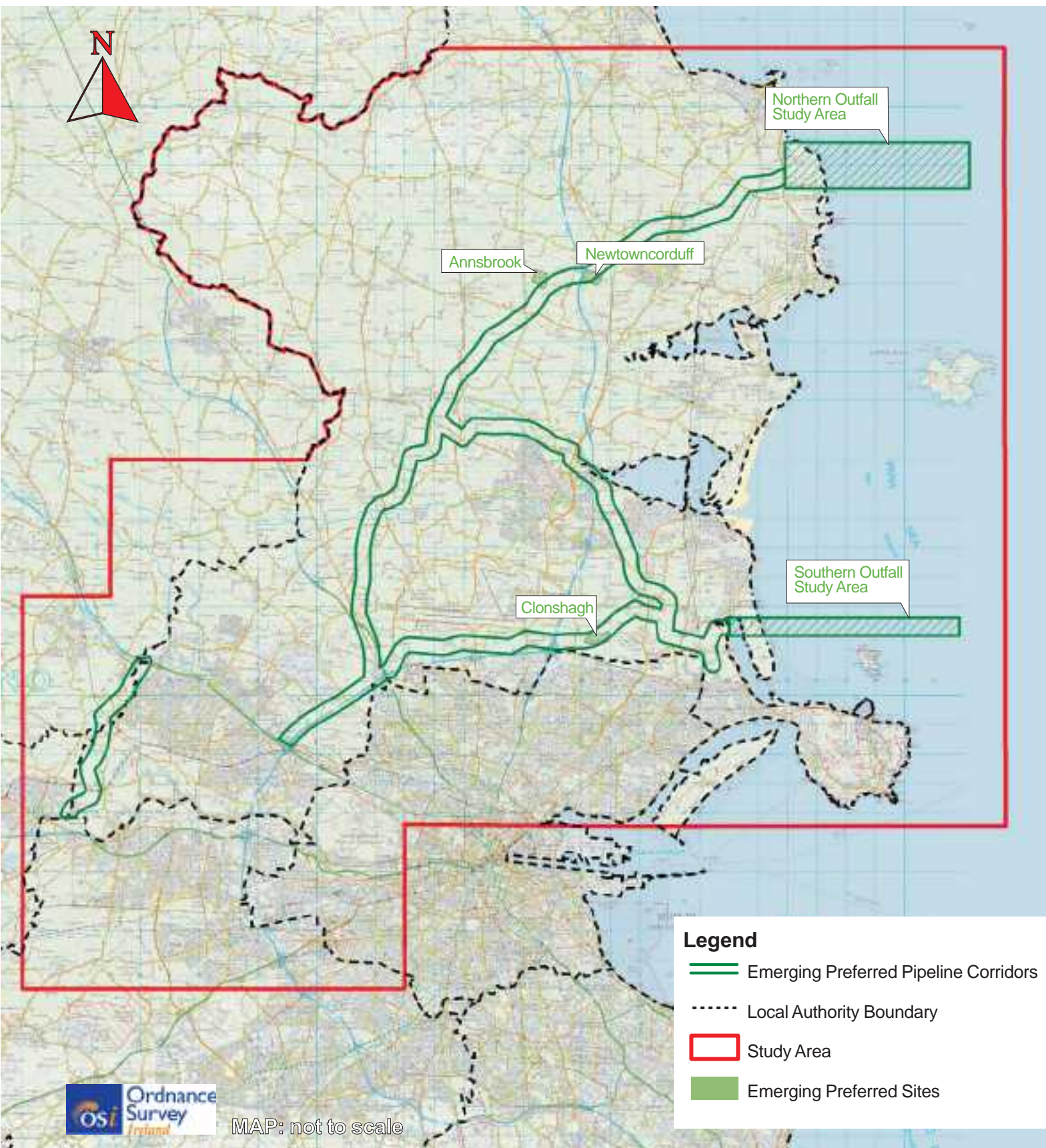
An eight-week public consultation on the Alternative Sites Assessment (ASA) commenced in October 2011 and stakeholders were asked to provide feedback on the short-listed land parcels and any issues that should be considered when determining the emerging preferred sites and associated outfalls.

The Technical Team reviewed and considered all feedback from the ASA Phase 1 consultation and has now identified the three emerging preferred site options for consultation with members of the public and other interested stakeholders.

Who is leading the project?

The Greater Dublin Drainage Project is being led by Fingal County Council, on behalf of Dublin City Council and the County Councils of Dún Laoghaire-Rathdown, South Dublin, Kildare, and Meath.

Map of the Three Emerging Preferred Site Options



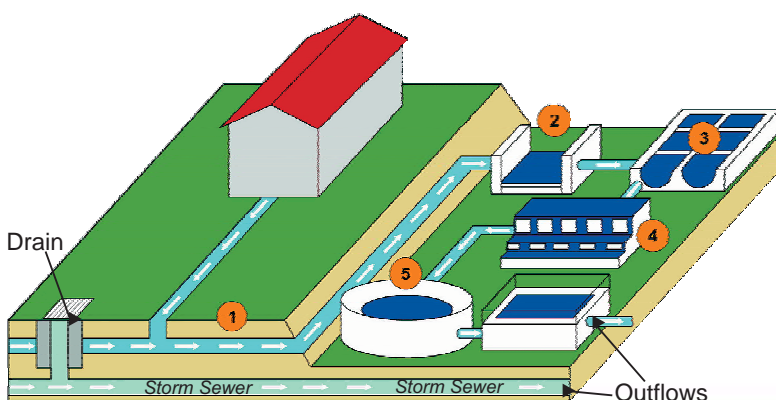
What is Drainage and Wastewater?

Wastewater is any water whose quality has been adversely affected by human activity or industry. It can be liquid waste discharged by domestic residences, commercial properties, industry, or agriculture and it can contain a wide range of contaminants. Everyday activities like showering, brushing teeth, cooking and using the toilet create wastewater. Some of these organic products in the wastewater can be broken down easily in the environment but others are not so easily degraded. The drainage system transports this wastewater to a treatment plant where it undergoes treatment before it is discharged as clean treated effluent into our rivers or seas.

Why do we need to treat Wastewater?

Untreated wastewater poses a threat to public health and the environment. All wastewater is ultimately discharged back into the aquatic environment and, if the treatment is inadequate, the receiving waters will be polluted. Furthermore, proper wastewater treatment systems are essential for sustaining our modern livelihood and contributing to development. Homes, businesses, industries and hospitals, along with all other water users, rely on a robust wastewater treatment system to maintain daily activities

The Wastewater Treatment Process



TYPICAL TREATMENT PROCESS

- Step 1:** Sewerage System
- Step 2:** Grit Chamber
- Step 3:** Primary Treatment
- Step 4:** Aeration Tanks
- Step 5:** Secondary Treatment Tank

NOTE:

Ideally, wastewater treatment in a municipal treatment plant involves two main stages: primary and secondary. There are two products from the treatment process: sludge and liquid effluents. The process of wastewater treatment removes physical, chemical & biological contaminants, producing an environmentally safe fluid waste stream or sludge that is suitable for disposal or waste.

How do we treat Wastewater?

The process of wastewater treatment is to remove physical, chemical, and biological contaminants from the wastewater. The objective of undertaking this treatment is to produce an environmentally safe fluid waste stream together with sludge that is suitable for disposal or reuse (usually in the form of fertiliser). Primary, secondary and sometimes, tertiary treatment, of the wastewater may be needed, depending on the sensitivity of the receiving environment.

There are two main phases of treatment undertaken in wastewater plants:

1) Primary Treatment

This consists of temporarily holding the wastewater and sewage in a tank where heavy solids can settle to the bottom while oil, grease, and lighter solids float to the surface. The settled and floating materials are removed and the remaining liquid may be discharged or subjected to secondary treatment.

2) Secondary Treatment

This removes dissolved and suspended biological matter. Secondary treatment is typically performed by indigenous, water-borne micro-organisms in a managed habitat. Secondary treatment may require a separation process to remove the microorganisms from the treated water prior to discharge.

Tertiary treatment may be needed in certain circumstances where the sensitivity of the receiving environment requires it. Tertiary treatment includes nutrient reduction and UV filtration.