

# Licence Application for East Tip, Haulbowline Island

Project Update  
23/11/2011



# ***Bilateral with European Commission on ECJ C494/01***

## ***Irish Ispat aspect of the case***

***Beaulieu 5, Brussels  
9<sup>th</sup> September 2011***

### **Outcome**

- Acceptance of outline document and associated timelines
- Website
- Site visit to Ravenscraig
- Repair of sea breach

# *Presentation Outline*

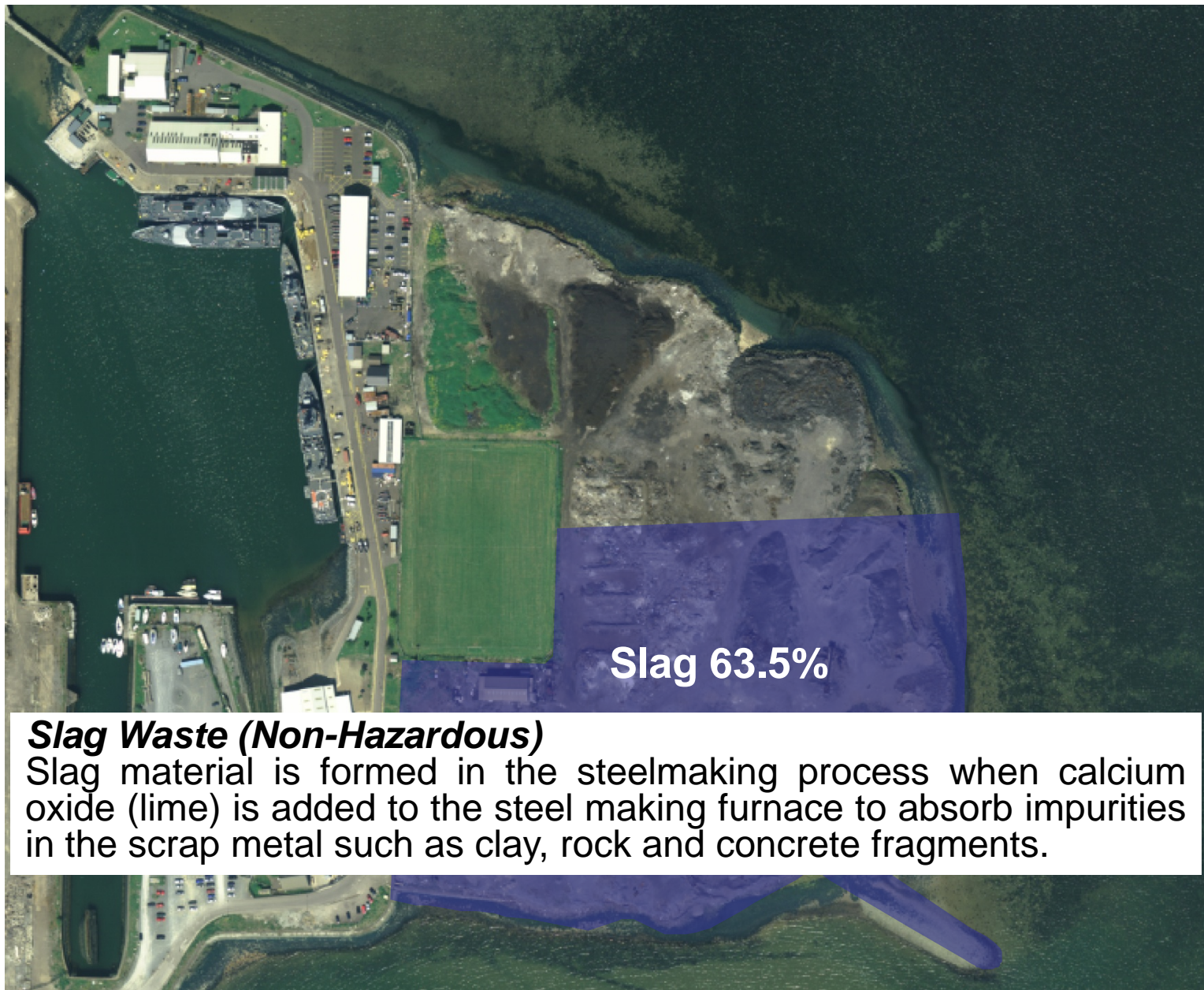
1. Background on East Tip
2. Repair of Sea Breach
3. Website
4. Update on Phases I-IV
5. Ravenscraig

# 1. Background



# 1. Background

- 1938 - Steelworks opened
  - Plan area of Haulbowline Island 23.5 ha
- 2001 - Irish Ispat ceased operation -
  - Plan area of Haulbowline Island 34.9 ha
- Increase relates mainly to expansion of East Tip – 9 ha
- East Tip consists generally of waste generated during steel work process



***Slag Waste (Non-Hazardous)***

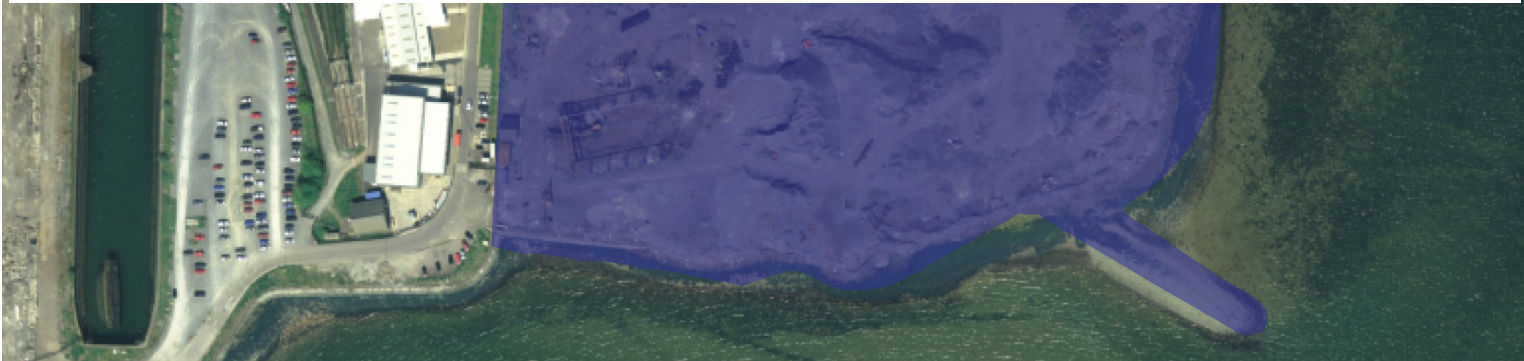
Slag material is formed in the steelmaking process when calcium oxide (lime) is added to the steel making furnace to absorb impurities in the scrap metal such as clay, rock and concrete fragments.



Refractories 15.3%

***Refractories (Non-Hazardous)***

Refractories consist mostly of bricks that were used for lining the steel vessels. The bricks used depended on their thermal resistance and chemical properties.

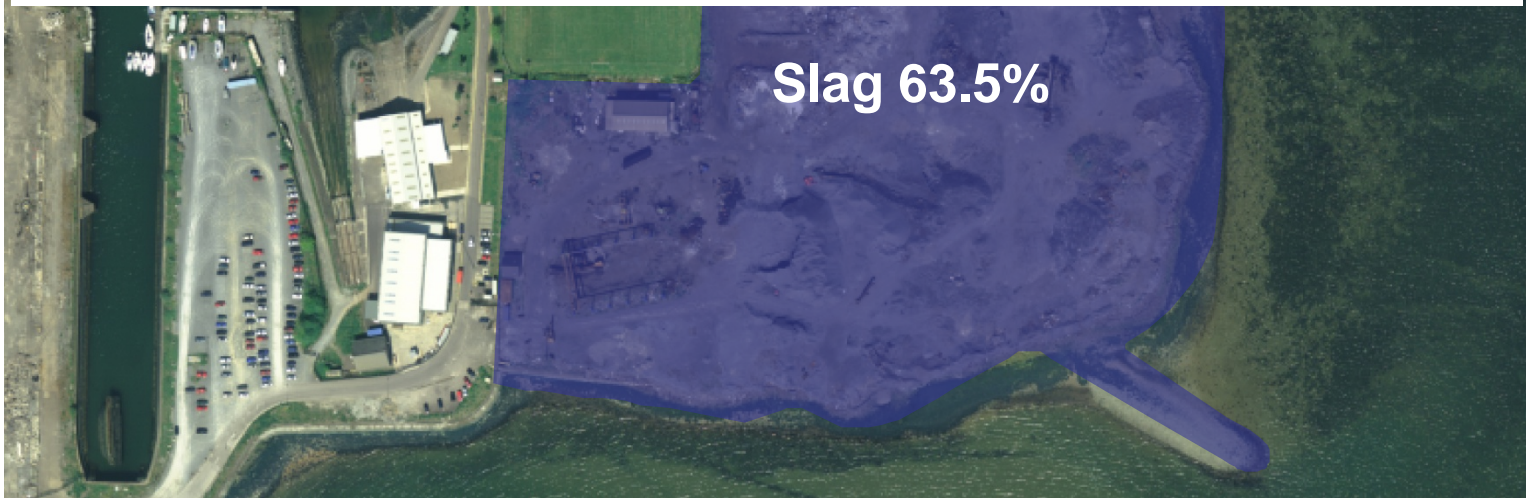


Source: Environment Assessment of East Tip Area of Haulbowline Island, WYG 2008



***Millscale (Potentially Hazardous)***

Millscale is formed during oxidisation of steel in process, where material is removed from the steel and washed via flumes with water into a collection pit. The millscale contains some hydrocarbons due to oil/greases from process machinery.

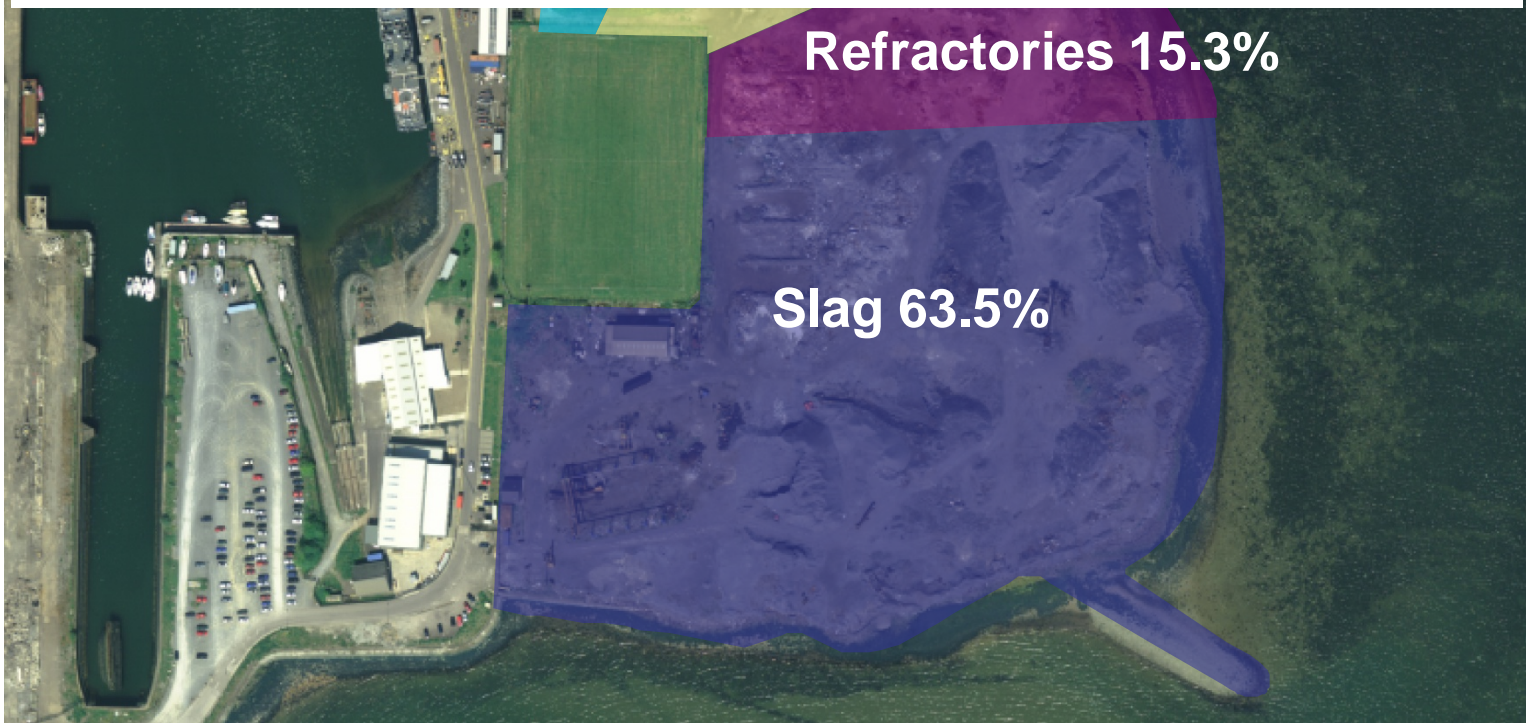






***Scrap Metal (Non-Hazardous)***

There is waste scrap metal that that was dumped across the site within the slag material.



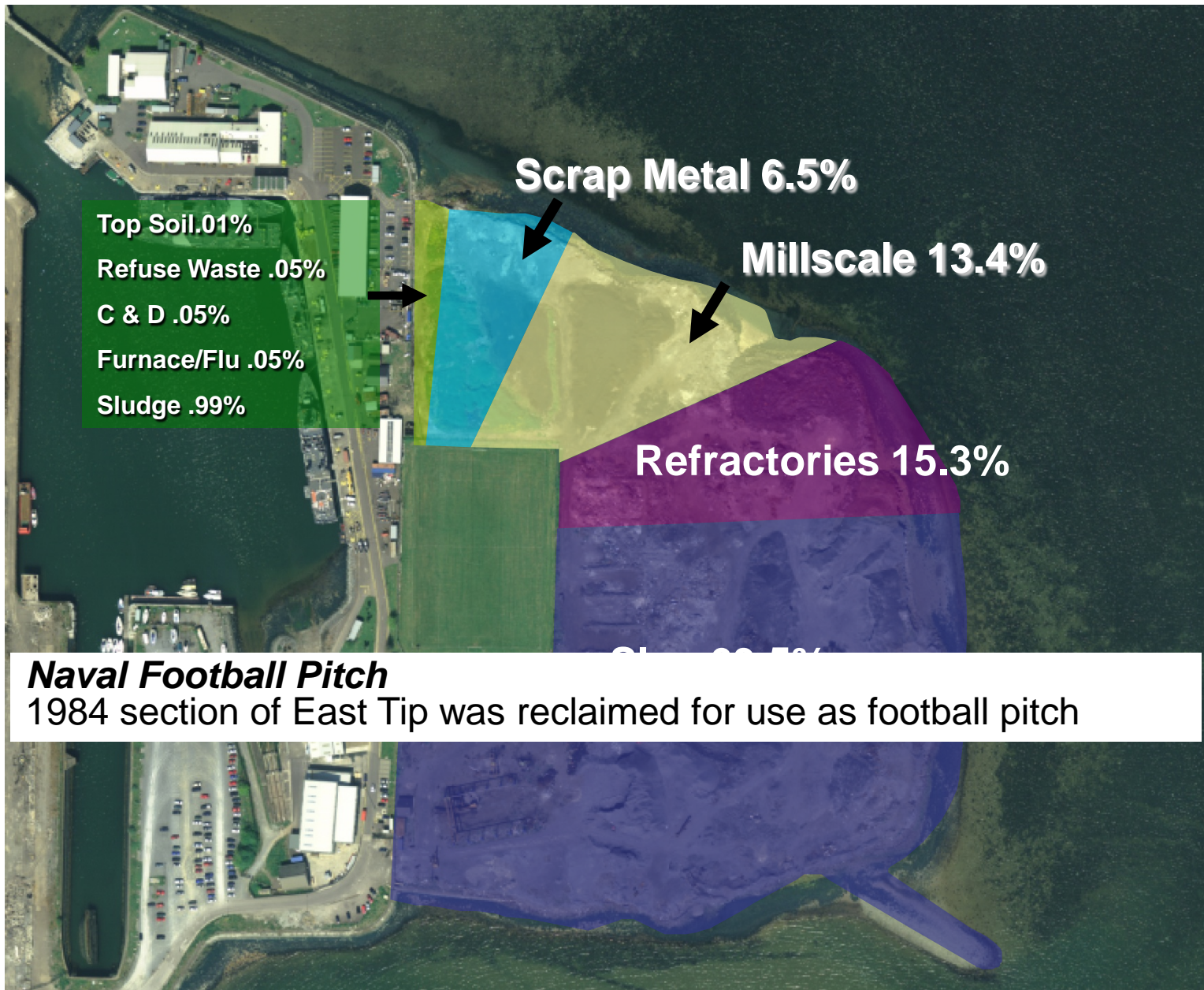


***Sludge (~1%) (Hazardous)***

Oil, greases and hydraulic fluids from the steel making machinery was collected with the mill scale in tanks known as clarifiers. Each summer the sludge material from these clarifiers was removed to the East Tip. There are no records as to where these sludge pits were buried.

***December 2007 – June 2008***

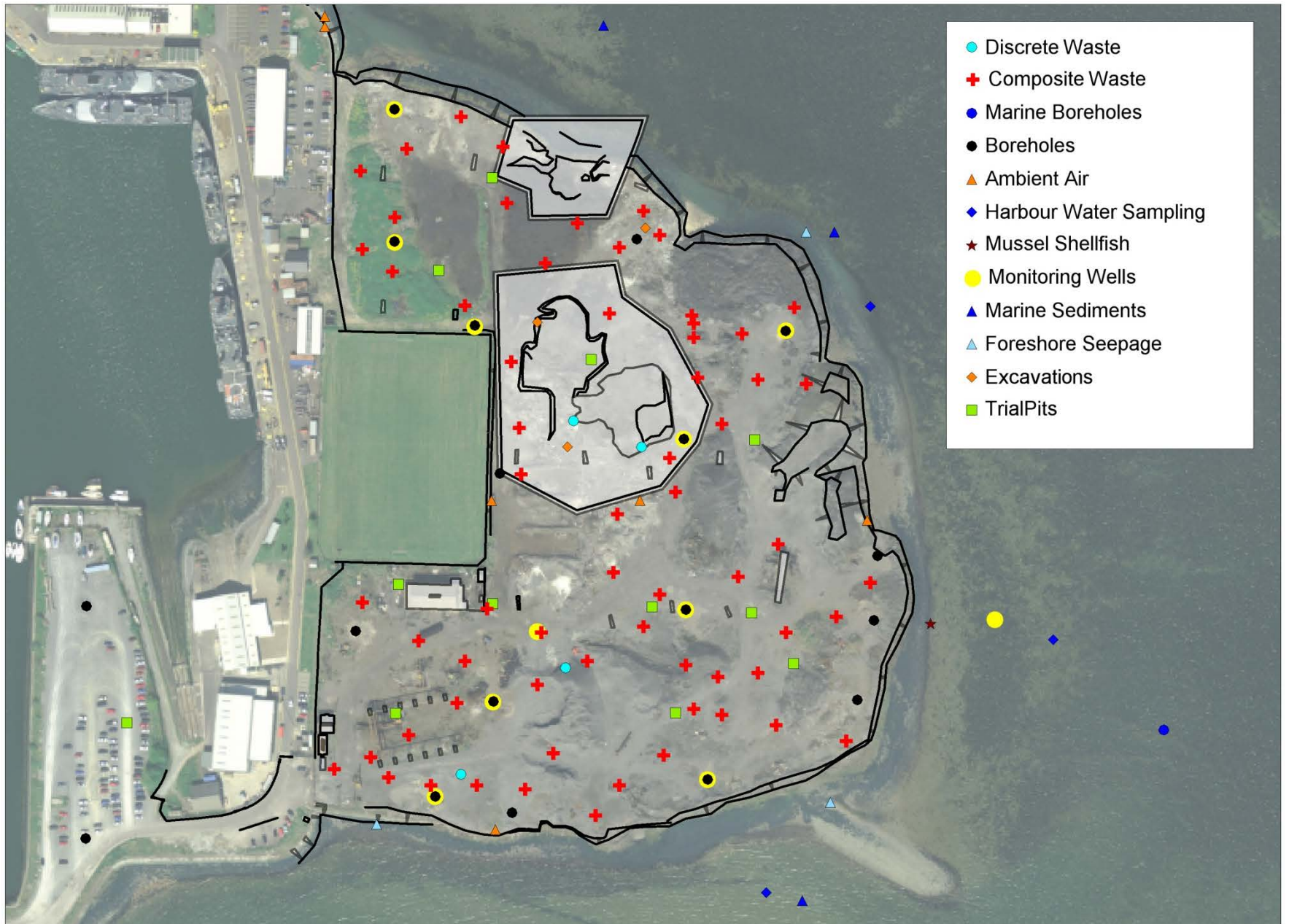
Site excavations carried out on East Tip and sludge removed and exported for disposal. 18,000m<sup>3</sup> material removed in total.



Source: Environment Assessment of East Tip Area of Haulbowline Island, WYG 2008

# 1. Background

- 24 no. reports have been collated by CCC and are currently being reviewed.
- Huge body of information pertaining to the site in existence.
- Most prominent reports relating to site are the 2005 and 2008 reports produced by WYG.



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- Huge body of information pertaining to the site in existence.
- Most prominent reports relating to site are the 2005 and 2008 reports produced by WYG.
- *“no identified risk to the residential inhabitants of Cork Harbour associated with the presence of waste materials on the East Tip”* WYG, 2008

## 2. Repair of Sea Breach



## 2. Repair of Sea Breach





## 2. Repair of Sea Breach

- Health & Safety Documents finalised 26<sup>th</sup> October
  - Health and Safety Responsibilities of Client
  - Health and Safety Guidance Document
  - Health Risk Assessment Report
- Appropriate Assessment Screening Statement finalised 26<sup>th</sup> October

## 2. Repair of Sea Breach

ATKINS  
ATKINS



Cork County Council  
Haulbowline Island East Tip  
Appropriate Assessment of a) back-filling of breach in  
seawall & b) site investigation work  
October 2011

### Conclusion

As noted the current Screening Report deals with a) backfilling the seawall breach and b) permeability testing. Based upon the above assessment the proposed works will not result in negative impacts on the conservation objectives of either Great Island Channel SAC or Cork Harbour SPA. The assessment does not therefore need to progress to Stage 2.

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# 2. Repair of Sea Breach

Haulbowline East Tip – Sea Breach Environmental Report



Cork County Council

Haulbowline Island,  
East Tip Sea Breach,  
Emergency Backfilling Works.

Environmental Report

WYG Environmental and Planning (Ireland) Ltd

10/11/2011

WYG Ireland part of the WYG Group

creative minds safe hands

[www.wyg.com/ireland](http://www.wyg.com/ireland)

## Conclusions

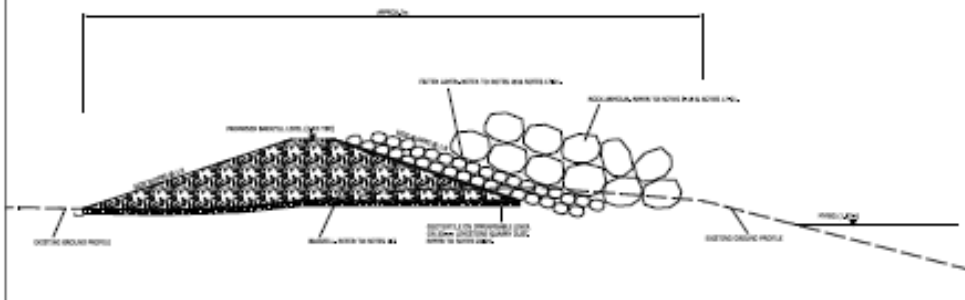
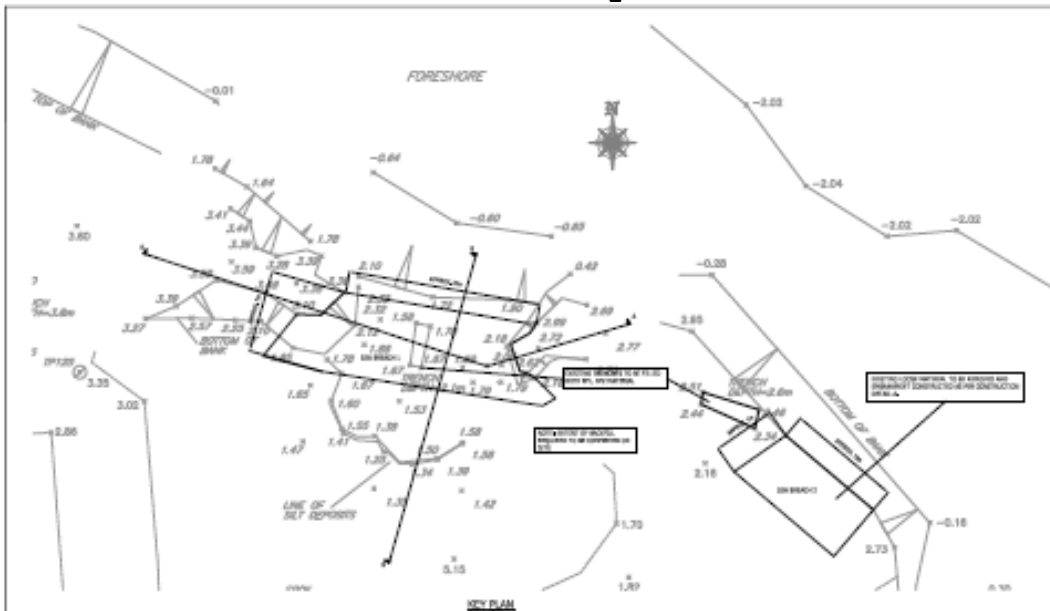
The proposed sea breach emergency works will break the linkage between the sea water and the excavations on the East tip and eliminate any potential of contamination to the local environment occurring due to this linkage.

In terms of the work being an 'exceptional case' under Article 2(3) the failure to progress these works is likely to present the risk of contamination of surface water though periodic flooding of the East Tip during high tide and/or storm events.

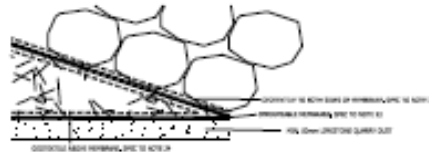
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- Design Specification finalised 21<sup>st</sup> October

# 2. Repair of Sea Breach

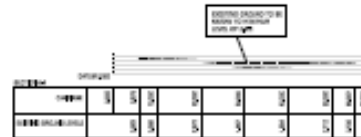


**DETAIL A TYPICAL SEDIMENT SECTION**

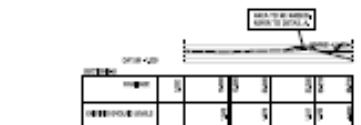


**DETAIL B BLOW UP OF GEOTEXTILE & MEMBRANE DETAILS**

- REVISIONS**
1. THE MATERIAL TO BE USED IN REPAIRING THE SEA BREACH REPAIRWORK SHALL BE AS SPECIFIED IN THIS PLAN AND TO BE TO THE MAXIMUM EXTENT PRACTICABLE IN RESPECT OF CLASSIFICATION.
  2. THE SECTION WHICH THE FILL MATERIAL IS TO BE DEPOSITED SHALL BE PREPARED BY REMOVAL OF ALL EXISTING MATERIAL FORMING A SAND AREA, EXCEPT FOR A REMAINDER OF 150MM TO 200MM COMPACTED IN ACCORDANCE WITH THE SPECIFICATION FOR ROAD WORKS. ALL MATERIAL SHALL BE DEPOSITED IN LAYERS OF COMPACTED THICKNESS NOT GREATER THAN 150MM.
  3. ALL FILL MATERIAL SHALL BE DEPOSITED IN COMPACTED LAYERS OF NOT MORE THAN 150MM THICKNESS CONNECTED WITH HORIZONTAL PART.
  4. FILL MATERIAL SHALL NOT BE DEPOSITED ON EXPOSED SOIL OR IF PILING LOSS MATERIAL SHALL BE EXPOSED TO 10% OF THE EXTENT OF THE FILL MATERIAL.
  5. ALL EXISTING FILL MATERIAL SHALL BE SPREAD OUT IN A RANDOM ORDER PRIOR TO DEPOSITION.
  6. FILL MATERIAL SHALL BE COMPACTED IN ORDER TO ESTABLISH DENSITY OF SOIL AS IS PRACTICABLE AFTER DEPOSITION. A 5% MINIMUM COMPACTED TO THE LOCATION AND TO THE MATERIAL TO BE DEPOSITED.
  7. SOIL EXPOSED AFTER DEPOSITION OF COMPACTED FILL SHALL BE PROTECTED AND APPROVED PAVED TO DIRECTION OF THE NEXT LIFT.
- GENERAL NOTES**
8. EXISTING ROAD SURFACE SHALL BE CUT TO THE TOP SURFACE OF THE NEW ROAD SURFACE AS SHOWN ON THIS PLAN AND RECONSTRUCTED TO THE SPECIFIED FINISH GRADE.
  9. THE EXISTING ROAD SURFACE SHALL BE RECONSTRUCTED TO THE SPECIFIED FINISH GRADE AND THE EXISTING ROAD SURFACE SHALL BE RECONSTRUCTED TO THE SPECIFIED FINISH GRADE.
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**SECTION A-B**



**SECTION B-A**

NO.	DESCRIPTION	BY	CHECKED	DATE
1	ISSUED FOR TENDER	ABC	DEF	2024-11-17

**COOK COUNTY COUNCIL**

PROPOSED PROJECT: REPAIR OF SEA BREACH AREA



W. J. O'CONNELL & PARTNERS  
PROFESSIONAL ENGINEERS  
10/100 MOUNTAIN VIEW DRIVE, WINDYBUSH NSW 2289

PROJECT: REPAIR OF SEA BREACH AREA

DATE: 11/17/2024

NO.	DESCRIPTION	BY	CHECKED	DATE
1	ISSUED FOR TENDER	ABC	DEF	2024-11-17

## 2. Repair of Sea Breach

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- Environmental report prepared in accordance with Article 2 (3) of EIA Directive 85/337/EEC - finalised 27<sup>th</sup> October
- Design Specification finalised 21<sup>st</sup> October
- Tenders submitted 28<sup>th</sup> October
- Works commenced 15<sup>th</sup> November & completed 21<sup>st</sup> November

## 2. Repair of Sea Breach





## 2. Repair of Sea Breach



## 2. Repair of Sea Breach



## 2. Repair of Sea Breach



## 2. Repair of Sea Breach



Aerial Photography  
courtesy of SkyTec Ireland

# 3. Website

## www.corkcoco.ie/haulbowline

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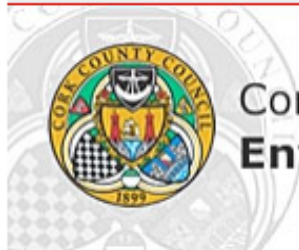
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### Haulbowline

#### PROJECT OVERVIEW

- Cork County Council, on behalf of the Irish State, has agreed to facilitate an application for a waste licence for the East Tip, on Haulbowline Island (Figure 1). This application will be structured around an Environmental Impact Statement (EIS), an associated Qualitative Risk Assessment (QRA) and an Appropriate Assessment (AA).
- The approach to the licence application for the East Tip will differ from that of a conventional licence application in that the waste facility is technically in-situ and thus a licence is being sought to approve a proposed design solution which will sever the linkages between any potential sources of contamination and associated receptors.
- With a greenfield site the design solution generally falls out of the EIA and QRA process. However, in this scenario it will be necessary to propose a number of potential solutions at the outset and these will inform the scope of the site investigation programme. A [phased](#) approach to the licensing process will be adopted.
- Potential design solutions will be proposed at the desk study stage ([Phase I](#)) and will be based on a Conceptual Site Model (CSM) developed following a review of all existing analytic data pertaining to the site and its surrounds.
- It is envisaged that the final solution will fall into one of three categories: contain/remediate material on site, remove material off site or some combination of both.
- Results of proposed site investigations, combined with those of previous investigations, will determine the relevant licence i.e. inert, non-hazardous or hazardous waste.
- Following the site investigative phase a proposed design solution will be identified and subsequently tested and validated through a detailed QRA which will incorporate site specific computer models.
- A licence will not be granted unless the EPA is satisfied that, *inter alia*:
  - Any emissions from the site will not result in the contravention of any relevant standard;
  - The site will not cause environmental pollution;
  - The site is in compliance with the stipulations of Council Directive 1999/31/EC
  - The activity concerned is consistent with the objectives of the relevant waste management plan or hazardous waste management plan.



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## Project Outline

### Summary

Environmental risk assessment is an interactive process and while definitive project timelines could not be presented at the project outset an estimation is presented below of the duration of each phase of the project. It must be accepted by all parties that statutory obligations relating to procurement, planning, Environmental Impact Assessment (EIA) and Appropriate Assessment (AA), which can have temporal implications, must be adhered to at all stages of the licensing process.

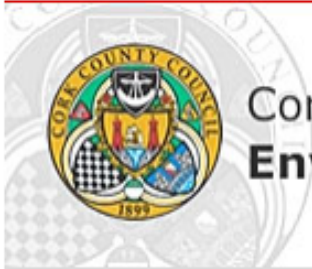
It is considered that the critical pathway for the project will be dictated by procurement issues. The extent of input from external agents (i.e. consultants and contractors) will not become apparent until the completion of Phase III. Indeed on completion of Phase IV and Phase V, respectively, it is possible that a requirement for additional input from external specialists may be identified.

In summary, therefore, it is envisaged that a licence application will be prepared and submitted within a 14 -16 months timeframe and that following the completion of each phase of the project the Council will be better positioned to refine this timeline. Project updates will be published on the council website ([www.corkcoco.ie](http://www.corkcoco.ie)) as the project progresses.

#### Phase I: Desk Study and Conceptual Site Model

- Review all historical reports pertaining to the site and collate all relevant data
- Prepare conceptual site model (CSM)
- Formulate potential design solutions
- Scope site investigations and structure of licence application
- Identify external consultancy services and contractors required
- Prepare tender documents

*Estimated Duration: 8 weeks*



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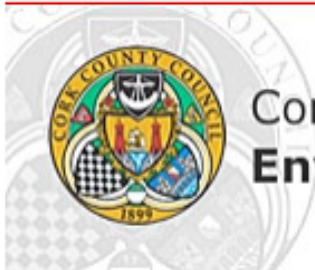
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## Press Statements

[Press Release October 4th, 2011](#)

[Press Release July 29th, 2011](#)

First Meeting of Haulbowline Government Working Group



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### Latest News

#### Project Update

**21st November 2011**

Works completed on the repair of the sea breach along the northern section of the East Tip.

**15th November 2011**

Works commence on the repair of the sea breach along the northern section of the East Tip.

**9th November 2011**

Deadline for receipt of completed Pre-Qualification Questionnaires for Lot 1 and Lot 2 (see 14th October).

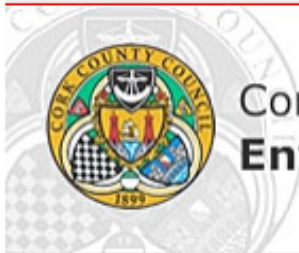
**2nd November 2011**

Members of Cork County Council's project team accompanied by consultants WYG (Ireland) and RPS gave a presentation on the project outline to naval personnel working on Haulbowline Island. This forum afforded the opportunity to those present to address queries to the project team.

**28th October 2011**

Meetings of the Technical Group and Steering Group were facilitated by Cork County Council at County Hall on the morning of Friday 28th October. In attendance at the technical group meeting





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## Reports

### Useful links

The Department of Environment, Community and Local Government website hosts a number of environmental reports relating to Haulbowline. These can be accessed through the following links:

- [Monitoring Reports \(2008, 2009 and 2010\)](#)
- [Peer Review \(2008\)](#)
- [Environmental Assessment of East Tip \(2008\)](#)
- [Factual Geo-Environmental Report \(2005\)](#)
- [Geo-Environmental Report 2011](#)

## **4. Update on Phases I – IV**

**as presented on 09/09/2011**

- Review of historical data – on going.
- Procurement of consultants – on going

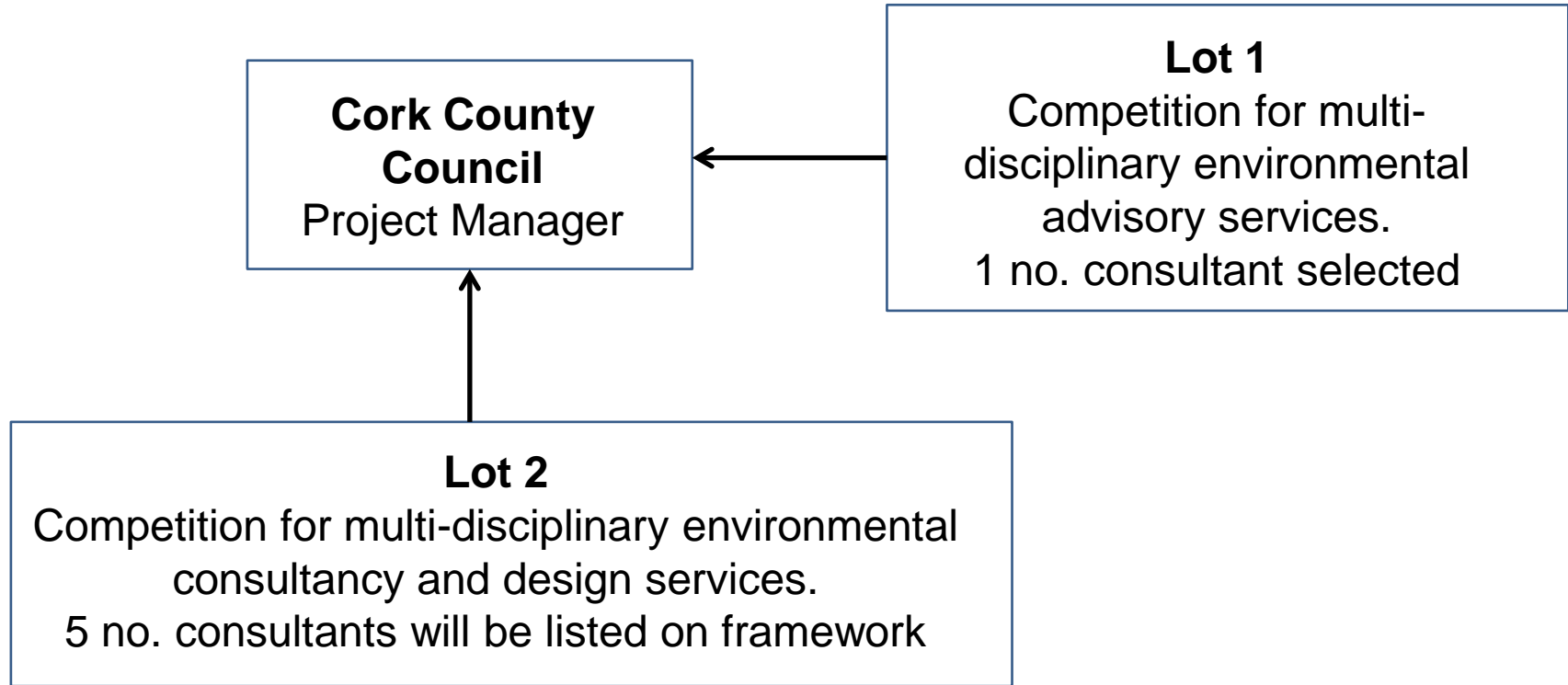
# Procurement

- Framework to be put in place.
- Achilles Procurement Consultants retained to assist with procurement process – 15<sup>th</sup> September.
- Lot 1: Multi-Disciplinary Environmental Advisory Services (1 no. consultant selected)
- Lot 2: Multi-Disciplinary Environmental Consultancy and Design Services (5 consultants to be listed)

**Cork County  
Council**  
Project Manager

**Lot 1**  
Competition for multi-  
disciplinary environmental  
advisory services.  
1 no. consultant selected

**Lot 2**  
Competition for multi-disciplinary environmental  
consultancy and design services.  
5 no. consultants will be listed on framework



# Procurement

- Framework to be put in place.
- Achilles Procurement Consultants retained to assist with procurement process – 15<sup>th</sup> September.
- Lot 1: Multi-Disciplinary Environmental Advisory Services (1 no. consultant selected)
- Lot 2: Multi-Disciplinary Environmental Consultancy and Design Services (5 consultants to be listed)
- Notice published 14<sup>th</sup> October, PQQ deadline 9<sup>th</sup> November.
- Envisaged that SI will commence in January

# **Update on Phases I – IV**

**as presented on 09/09/2011**

- Review of historical data – on going.
- Procurement of consultants – on going.
- Consultation with EPA – on going.
- Topographical survey – completed.
- Geo-physical survey – initial phase completed.

Fig. 1 Geophysical Location

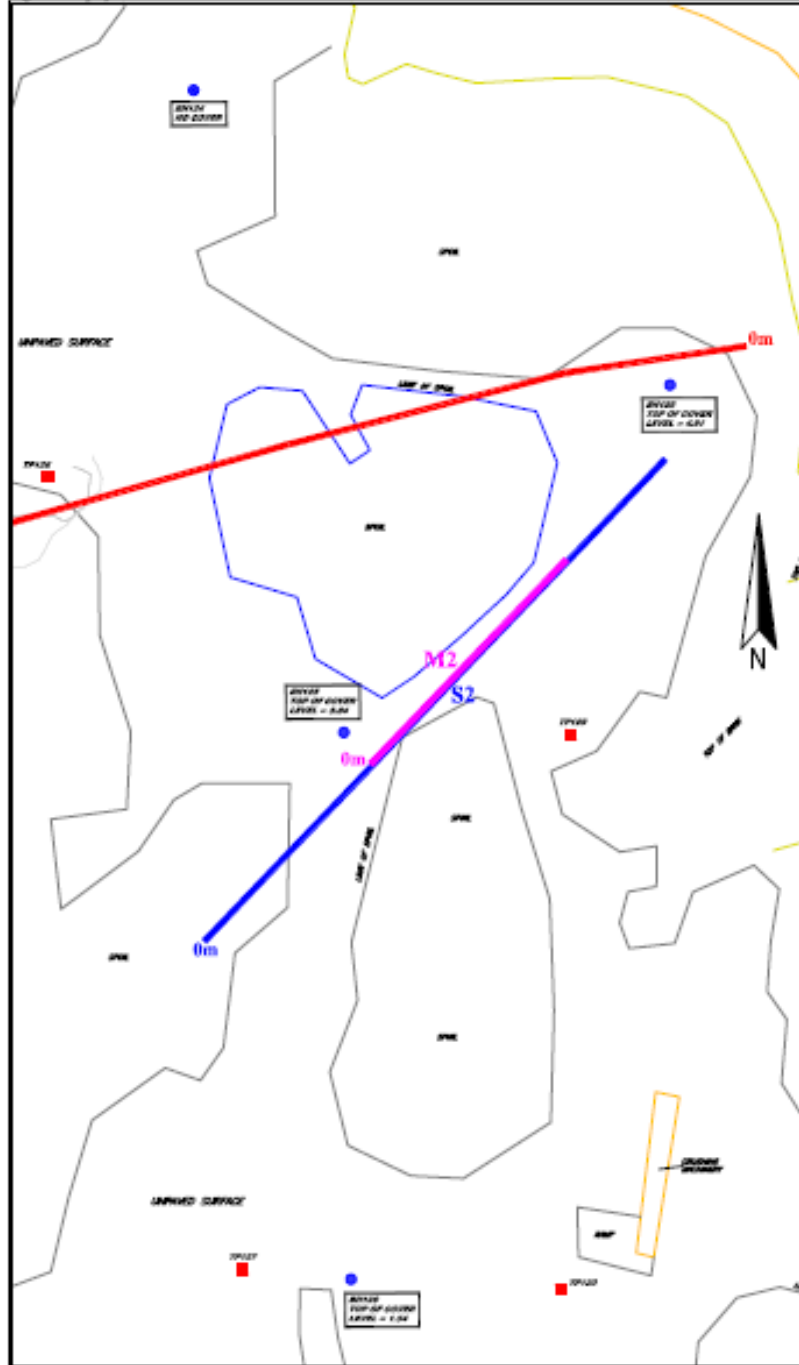
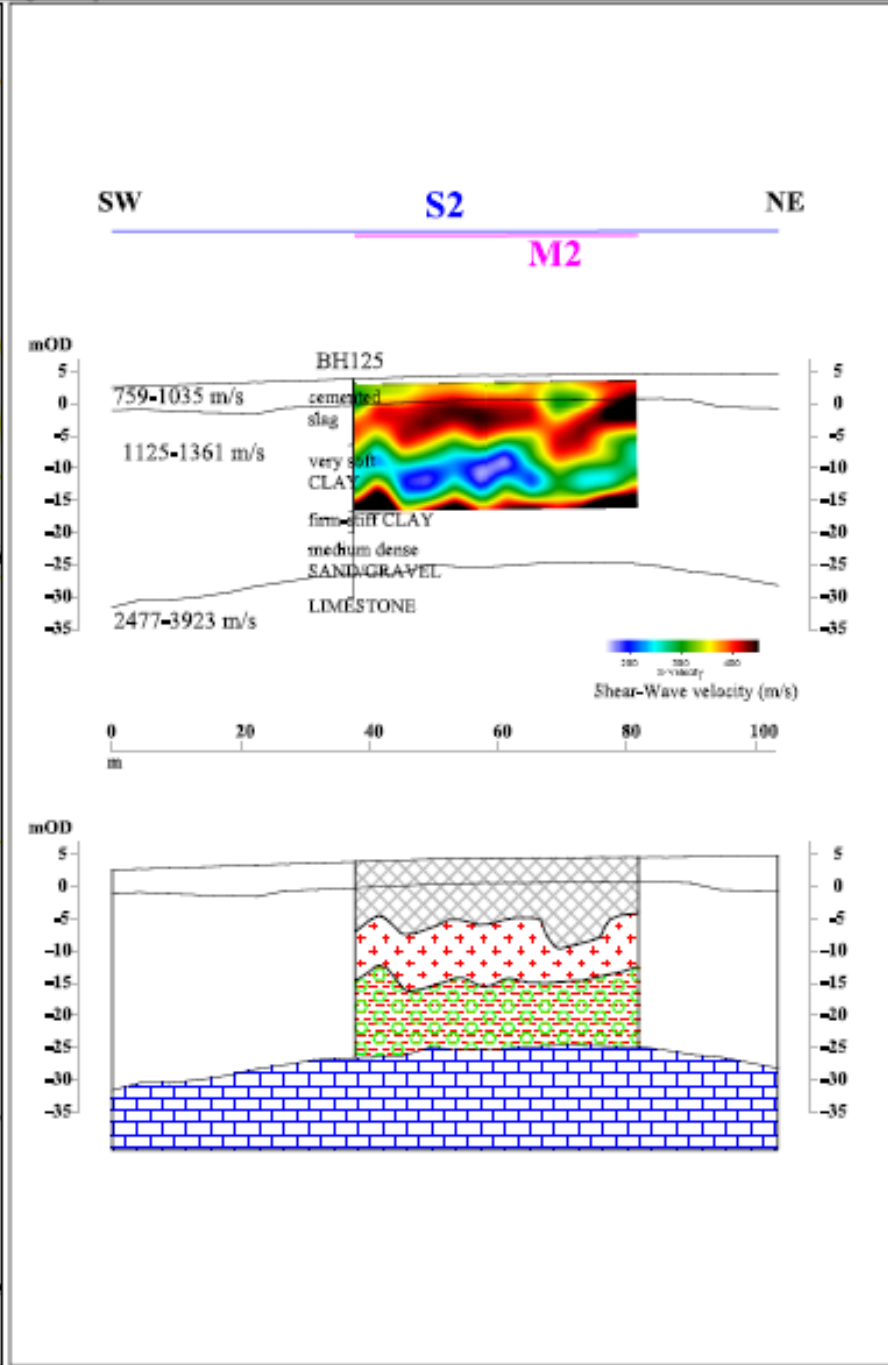
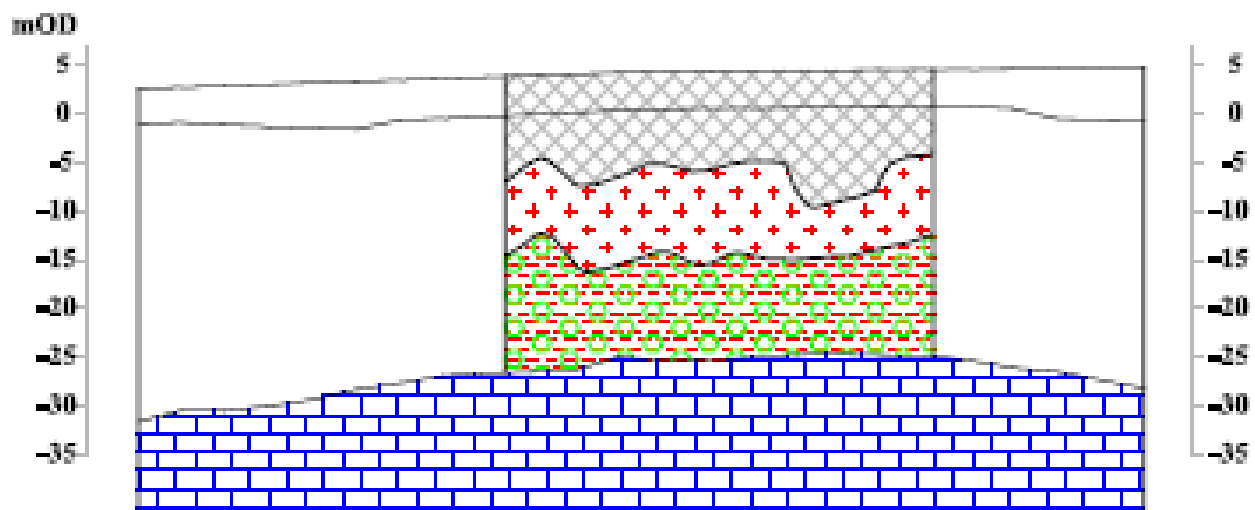
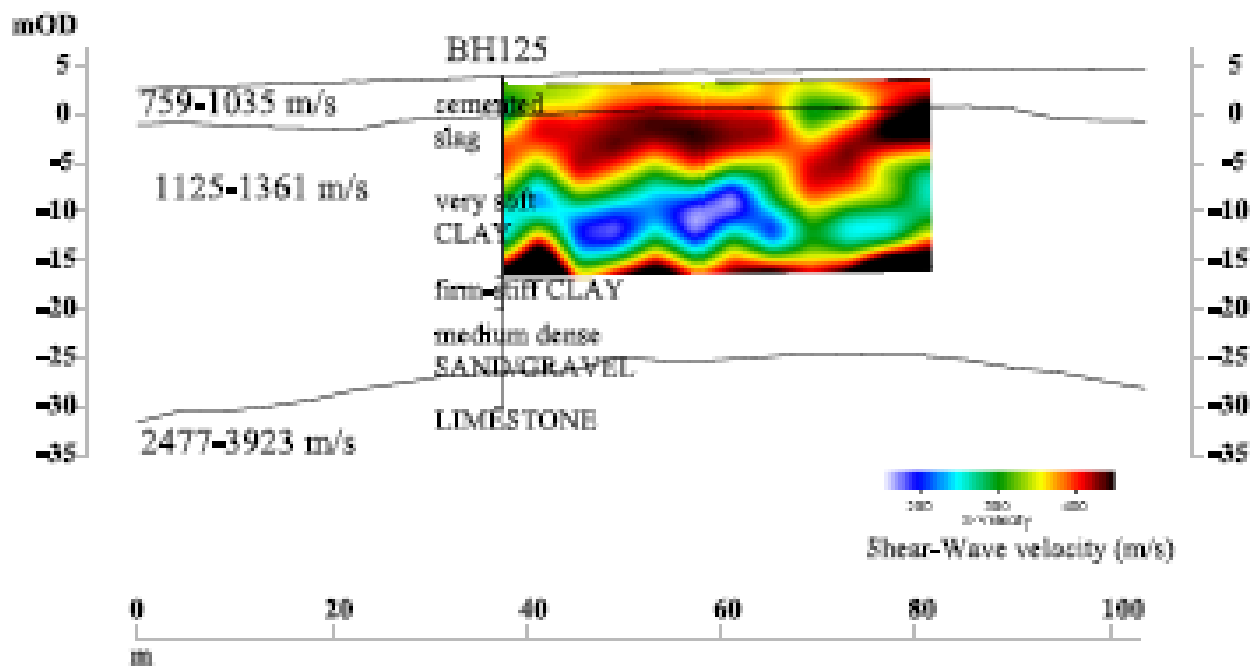


Fig. 2 Interpreted results for Profiles M2 & S2







# **Update on Phases I – IV**

**as presented on 09/09/2011**

- Review of historical data – on going.
- Procurement of consultants – on going
- Consultation with EPA – on going
- Topographical survey – completed.
- Geo-physical survey – initial phase completed.
- Design of site investigation programme – completed

## 5. Site Visit to Ravenscraig

- Former steelworks site that has undergone regeneration.
- Developed a Secure Containment Facility (SCF).
- Design solution relevant to East Tip.
- Works programme took 12 months.
- Planning and Waste Licensing process took 18 months.
- Consideration of future use/potential essential from outset.



**Aon Cheist?**  
**Des Questions?**