

Mornington Storm Pumping Station

Preliminary Health and Safety Plan

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PREFACE

This plan has been prepared in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI No. 291 of 2013).

This document has been prepared for the purpose of providing information for the Project Supervisor Construction Stage (PSCS).

All relevant documentation must be passed on to the Client upon completion of the project.

1.0 GENERAL DESCRIPTION OF PROJECT

Mornington has experienced flooding in the past from pluvial flooding, most notably in a small residential area along the Mornington River, The Dunes. The areas are protected with a flood defence wall to protect from fluvial flooding. However, the key flooding mechanism is pluvial flooding due to overland flow from the surrounding area and an inability of the surface water drainage to discharge to the watercourse due to high river levels.

The Scheme consists of the following:

- Surface water drainage of The Dunes road
- Flood pumping station constructed at the end of the roadway with Duty/Assist pumps, pumping to the adjacent Mornington River through a head wall and flap valve discharge
- Couple added to the wet well for future connection from the Ozanam Holiday Centre
- Control kiosk and generator set down area constructed for operation over the design flood level

2.0 PROJECT DETAILS

2.1 LOCATION OF THE WORKS

Mornington is located in Co. Meath. The town is surrounded by agricultural lands to the west and fronts onto the Eastern Coast of Ireland. The Mornington River running through the town in South to North direction before connecting to the River Boyne. The River Boyne forms the county border with Louth. The Dunes residential area is located east off the Golf Links Road in a cul-de-sac alongside the Mornington River. There are existing flood defence walls with drainage operating with non-return valves discharging back into the Mornington River along the riverbanks.

The site location and its boundaries are shown on drawings which can be found in the contract drawings.



Figure 2-1 Mornington Location Map

2.2 CLIENT'S NAME AND ADDRESS

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2.5 APPOINTMENT OF PROJECT SUPERVUSIR FOR THE CONSTRUCTION PHASE

It is expected that the Main Contractor the Office of Public Works will be appointed as PSCS for this Project.

3.0 ESTIMATED TIMESCALE OF PROJECT

3.1 INTENDED CONTRACT COMMENCEMENT DATE

May 2026

3.2 ESTIMATED TIMESCALE OF WORK ON THE CONSTRUCTION SITE

The estimated timescale for the project is 6 months.

Note: The proposed commencement and duration of works advised above are provisional, pending confirmation by the Project Supervisor (Construction Stage) that they are practicable.

3.3 ON WHAT BASIS WAS THIS TIMESCALE ESTIMATED

This timescale is based upon engineering judgment at design stage using knowledge from previous similar projects and is dependent on all materials being delivered to site on time and on the assumption that works will be carried out in accordance with the proposed design.

4.0 DRAWING SPECIFICATIONS

A full set of Contract Drawings and Specifications have been prepared for the work. These are to be read in conjunction with the Preliminary Safety and Health Plan and are contained in the following books of the Contract Documents:

- Volume A Works Requirements: Part A Specification
- Volume A Works Requirements: Part B Contract Drawings

5.0 EXISTING SAFETY FILE

A Safety File is not yet available

6.0 RELEVANT ADJOINING LAND USES

- There are works along the access road to The Dunes with surface drainage
- There are works at the cul-de-sac at the end of the road for the pumping station, kiosk and generator set down area.

See the contract drawings for further detail on the works

7.0 SITE RESTRICTIONS

7.1 RESTRICTION ON WORKING HOURS

For general purpose working hours are restricted to between 7.00am and 7.00pm Monday to Friday and 8.00am and 4.30pm Saturday.

These restrictions must be adhered to unless otherwise agreed with the Employer's Representative.

There shall be no working outside these hours without the prior approval of the Client.

7.2 SITE RESTRICTIONS AND RESTRICTIONS ON ACCESS

Access to the site will be from the public road network.

The existing public road network shall be kept clear of mud and debris. The traffic routes should be checked at least daily and if any mud or debris is discovered then measures should be immediately put in place to clean the roads affected.

There shall be no burning or burying of waste on the site.

The Contractor shall maintain vehicle and pedestrian access on existing roads, as well as access to and from properties directly affected by or adjacent to the works. The Contractor shall liaise with landowners to arrange access etc. The Contractor shall liaise with the school authorities and obtain the required permissions for access to school property prior to planned works.

It is noted that local road infrastructure to the site is generally narrow in width. However, Irish Row in particular is a busy thoroughfare and is effectively one way.

7.3 ANY PARTICULAR SITE RULES

Risk assessments must be carried out for dealing with the hazards identified in this document. Measures will be adopted to eliminate or reduce the risks identified in these assessments. The appropriate PPE shall be provided by the Contractor to all members of staff. The Contractor will adhere to guidance from ESB and agree working methods with the ESB in advance of working under or in the vicinity of overhead lines. The Contractor must ensure that there are adequate welfare facilities available onsite. The PSCS must ensure that the Contractor's staff are aware of the risk associated with contraction of Weil's Disease on site and appropriate control measures and procedures are employed.

7.4 SITE COMPOUND

Potential areas to be used for a site compound are shown in drawing IBI0050-RPS-ZZ-XX-DR-C-1200.

There are currently no welfare facilities available at the site. The Contractor will be required to provide and maintain adequate welfare facilities to suit the anticipated workforce required as outlined in the Specification. The Contractor will be responsible for providing an electricity supply, a water supply and telephone line to the site offices as necessary, in addition to liaison with all relevant statutory bodies.

7.5 LOCAL SECURITY ARRANGEMENTS

The Contractor shall be responsible for ensuring that the construction site under his control remains secure and that all precautions are taken to prevent unauthorised persons, particularly children, accessing the any areas of construction.

8.0 PHASING OF WORKS

It is the responsibility of the Contractor to programme the work activities. There are no specific constraints that would affect the phasing of the works for this contract.

9.0 OTHER WORK ACTIVITIES

9.1 EXISTING CONSTRUCTION ACTIVITIES

None currently known

9.2 OTHER CONSTRUCTION WORKS ON SITE, IF APPLICABLE

None currently known.

10.0 KNOWN EXISTING SERVICES

The following services are known to be in the area:

- Overhead and underground electricity cables – ESB
- Water and wastewater pipes – Uisce Éireann
- Fiber optic telecommunications – EIR
- Street lighting – Meath County Council
- Stormwater pipes – Meath County Council

There are no known gas mains in the area of the proposed works, however the Contractor should always follow safe digging practices regardless. The record drawings from the above providers can be seen in Appendix C.

There have been approximately 15 potential service clashes identified, both overhead and underground. These have been detailed in the contract drawings and listed in the spreadsheet in Appendix C.

Each of the service providers need to be consulted prior to construction commencing to confirm exact locations and ensure no alterations to existing services are required. The Contractor is required to liaise with all service providers to agree suitable working methods and mitigation measures.

11.0 INFORMATION ON THE PRESENCE OF PARTICULAR SAFETY RISKS TO SAFETY AND HEALTH

The construction work referred to in this Preliminary Health and Safety Plan has been reviewed by the designers. In their review, the designers have assumed that all construction work will be done in accordance with the Construction Regulations. The designers have also assumed that the Contractors safety statement deals with the normal hazards arising from their particular type of construction work.

The “Particular Risks” identified for this package are listed below.

The minimum controls required demand a Safe System of Work.

11.1 “WORK WHICH PUTS PERSONS AT WORK AT RISK OF FALLING FROM A HEIGHT; BURIAL UNDER EARTHFALLS, OR ENGULFMENT IN SWAMPLAND”

N/a

11.2 “WORK WHICH PUTS PERSONS AT WORK AT RISK FROM CHEMICAL OR BIOLOGICAL SUBSTANCES CONSTITUTING A PARTICULAR DANGER TO THE SAFETY AND HEALTH OF SUCH PERSONS OR INVOLVING A STATUTORY REQUIREMENT FOR HEALTH MONITORING”

Works in and around watercourses introduces the risk of contracting Weil’s disease. This disease can be contracted though contamination pathways such as the eyes and mouth. Appropriate PPE should be worn, such as gloves.

There is the potential for staff to be exposed to wastewater during the foul sewer diversion works.

11.3 “WORK WITH IONISING RADIATION REQUIRING THE DESIGNATION OF CONTROLLED OR SUPERVISED AREAS AS DEFINED IN DIRECTIVE 96/29/EURATOM”

N/a.

11.4 “WORK NEAR HIGH VOLTAGE POWER LINES” (10 KV AND UPWARDS)

It is noted that works will be required directly under and in the vicinity of high voltage power lines and the Contractor is required is required to liaise with the ESB to agree working methods and mitigation measures.

It is the responsibility of the main Contractor to produce a safe system of work to satisfactorily deal with this hazard.

11.5 “WORK EXPOSING PERSONS AT WORK TO THE RISK OF DROWNING”

The works will require the construction of headwalls, structures and scour protection at existing watercourse. The Contractor should consider the weather forecast and the impact on water levels when working near water.

11.6 “WORK ON WELLS, UNDERGROUND EARTHWORKS AND TUNNELS”

The works will require the construction of a wet well, valve chamber and underground pipework. It is the responsibility of the main Contractor to produce a safe system of work to satisfactorily deal with this hazard.

11.7 “WORK CARRIED OUT BY DIVERS AT WORK HAVING A SYSTEM OF AIR SUPPLY”

N/a

11.8 “WORK CARRIED OUT IN A CAISSON WITH A COMPRESSED-AIR ATMOSPHERE”

N/a

11.9 “WORK INVOLVING THE USE OF EXPLOSIVES”

N/a

11.10 “WORK INVOLVING THE ASSEMBLY OR DISMANTLING OF HEAVY PREFABRICATED COMPONENTS”

There are a number of elements of the works that will involve the assembly of heavy pre-cast concrete units including the following:

- Precast chamber rings
- Other miscellaneous elements.

It is the responsibility of the main Contractor to produce a safe system of work to satisfactorily deal with this hazard.

11.11 “WORK INVOLVING ASBESTOS”

N/a

11.12 OTHER HAZARDS

- The following hazards have been identified by the Designer.

- Works in confined spaces may be encountered during manhole construction.
- Work in or adjacent to a live area where contact and interaction with users, staff the public is possible.
- Work in proximity to live existing services (e.g. pressure mains, etc.) which could harm workers or of which the continuity of Service is Critical to the Operation of the facility.
- Works which put members of the public or others at significant risk from construction activities.
- Work involving interaction with live traffic.
- Excavations – risk of falling into trench / trench collapse.

The above list of particular risks is non-exhaustive and other risks may present during construction that could not be reasonably foreseen by the PSDP. Full details of the risk information provided by designers is included as Appendix B of this document.

12.0 MEASURES FOR REDUCING PARTICULAR RISKS

12.1 SPECIFIED MATERIALS REQUIRING PARTICULAR PRECAUTIONS

N/a.

12.2 PARTICULAR WORK METHODS THAT ARE RECOMMENDED

The Contractor shall comply with the safe working methodology provided by ESB in regard to working in the vicinity of overhead lines. It is recommended that the PSCS shall take specific measures for reducing particular risks by addressing them in the Construction Stage - Safety and Health Plan.

13.0 IDENTIFICATION OF PARTICULAR DESIGN REQUIREMENTS

13.1 ANTICIPATED TEMPORARY WORKS

Note: Not all temporary works require design. This list is provided to anticipate temporary works that are required on the project in order that the PSDP and PSCS can have a means in place by which design of temporary works can be coordinated (where relevant).

- Excavation support / Trench boxes.
- Site accommodation.
- Formwork.

13.2 ANTICIPATED SCAFFOLDING REQUIRING DESIGN

Note: Not all scaffolding requires design. This list is provided to anticipate scaffolding elements that are required on the project in order that the PSDP and PSCS can have a means in place by which design of such scaffolding elements can be coordinated (where relevant).

None anticipated.

13.3 ANTICIPATED STRUCTURAL ANCHORS

This list is provided to anticipate structural anchors that are required on the project in order that the PSDP and PSCS can have a means in place by which design of such structural anchors can be coordinated (where relevant).

None anticipated.

14.0 THE SAFETY FILE

It will be the responsibility of the PSDP to produce the Safety File for the project and hand it over to the client on completion of the project. To facilitate this the PSCS must provide the relevant information for the Safety file as set out in the regulations:

21. (1) The project supervisor for the construction stage of a project shall: -

a. Coordinate arrangements among contractors to ensure the provision of relevant information, in writing, necessary for the project supervisor for the design process to complete the safety file referred to in Regulation 13, monitor the implementation of the arrangements and take any necessary corrective action, as set out in Regulation 20, and

b. Provide in writing to the project supervisor for the design process all relevant information necessary for that project supervisor to complete the safety file referred to in Regulation 13.

Contents of the Safety File

- Drawings detailing extent of the Works undertaken (as-constructed drawings).
- Details of material incorporated into the works of a hazardous nature.
- Details of any specific maintenance arrangements or precautions.
- Manuals / certificates by specialist contractors / suppliers which outline operating and maintenance procedures and schedules for plant and equipment installed as part of the works.
- Details of the location and nature of utilities and services, including location of uncharted services encountered during the course of the works.
- Any residual hazards which remain and how they have been dealt with.

15.0 CONTINUING LIAISON

Procedures will be required for dealing with unforeseen eventualities during project execution resulting in substantial change in scope of the Works, which might affect contract period and other resources, i.e. site meetings, etc.

The PSDP will require to be notified of any relevant changes or decisions that will affect Particular Risks during the time span of the project. Other relevant information would include changes to the time required for completion of the project or phases of the project.

Procedures will be required for gathering of information relevant to the Safety File by the Project Supervisor Construction Stage.

Procedures will be required to facilitate the coordination of the design of temporary works.

At monthly meetings, or otherwise as appropriate, the PSCS will be required to identify any design functions contemplated by Contractor/s or required in connection with construction of the works and to identify the names, qualifications and competency with regard to Health and Safety requirements of the designers of such works to enable the PSDP to fulfil the co-ordination function. Signed design certificates must be submitted in advance of construction. It will be a matter for the employers of designers of temporary works to be satisfied as to the general competency of these designers and the design scope and criteria to be followed.

16.0 COMPLIANCE WITH GENERAL SAFETY REQUIREMENTS

The various Contractors shall comply with all relevant statutory requirements such as the 2005 Safety Health and Welfare at Work Act, the Construction Regulations (SI 291 of 2013), the General Application Regulations (SI 299 of 2007) and any other relevant Legislation, Guidelines or Codes of Practice.

In addition, the Contractor shall comply with all the reasonable safety requirements of the Client, the Project Supervisor for the Design Process and the named Project Supervisor for the Construction Stage.

17.0 FINAL COMMENT

The information contained in the preliminary sections of this document has been prepared prior to the commencement of work on site. It does not take account of any matters or information, which may come to light after that time.