

Uisce Éireann



# Greater Dublin Drainage Project Addendum

## Outline Construction Environmental Management Plan



## SECTION 1 Introduction

### 1.1 Purpose

Since the EIAR in the 2018 planning application, the purpose of the Outline Construction Environmental Management Plan (CEMP) has not changed. That is, to provide a framework to ensure that the Proposed RBSF Project's environmental impacts and risks identified during the EIA and AA processes are effectively managed during construction, commissioning and handover of the project, and that appropriate mitigation, monitoring, inspection and reporting mechanisms are implemented.

As detailed in Chapter 1A (Introduction) in Volume 2A Part A of this Environmental Impact Assessment Report (EIAR) Addendum, Volume 4 Part A of the EIAR submitted with the original 2018 planning application has been reviewed in the light of:

- Changes to the baseline environment;
- The requirement for updated surveys;
- Updated development plans;
- The updated cumulative assessment;
- EPA updated guidelines; and
- Changes to the law, policy, and industry standards and guidance in the intervening period.

The description of the Regional Biosolids Storage Facility (RBSF) remains as presented in Chapter 4 (Proposed Project Description) in Volume 2 Part A of the EIAR submitted with the original 2018 planning application, as supplemented by Chapter 4A (Proposed Project Description) in Volume 2A Part A of this EIAR Addendum.

The objectives of the Outline CEMP explained in this section have not changed since the 2018 planning application. The Environmental Objectives and Targets for the Proposed RBSF Component listed in Table 1-1 in this section of the Outline CEMP in the 2018 planning application are still fundamental outcomes of the Outline CEMP.

### 1.2 Contract Specific CEMP(s)

The requirement for Contract Specific CEMPs outlined in the section 1.2 of the Outline CEMP in the 2018 planning application has not changed since the 2018 planning application. All items to be included in the CEMP to be prepared by the appointed contractor listed in this section are still relevant.

## SECTION 2 Project Background

It was explained in this section of the Outline CEMP in the 2018 planning application that the need and purpose for the Proposed RBSF Component was based on the National Wastewater Sludge Management Plan (NWSMP). That plan has not been updated since the 2018 planning application.

The Outline CEMP in the 2018 planning application was originally prepared in conjunction with an upgrade project for Ringsend Wastewater Treatment Plant (Proposed Upgrade Project) and there were some references to that project in the Outline CEMP for the Proposed RBSF Component. Planning permission was granted for Ringsend Wastewater Treatment Plant Upgrade Project by An Bord Pleanála (Case Reference Number PA29S.301798) in April 2019. There is no further comment on the Proposed Upgrade Project in this Outline CEMP Addendum, unless required for clarity.

### 2.1 Existing Approved Development

This section of the Outline CEMP in the 2018 planning application referred to the planning status of the Ringsend Wastewater Treatment Plant Upgrade Project. Planning permission was granted for that project by An Bord Pleanála in April 2019.

### 2.2 Proposed Development

The proposed development for which this Outline CEMP Addendum applies is the Proposed RBSF Component. It is described in Chapter 4 (Proposed Project Description) in Volume 2 Part A of the EiAR submitted with the original 2018 planning application and supplemented by Chapter 4A (Proposed Project Description) in Volume 2A Part A of this EiAR Addendum.

## SECTION 3 Environmental Management Framework

### 3.1 Employer

Uisce Éireann (UÉ), formerly known as Irish Water, remains the Employer and will maintain the same responsibilities discussed in this Section of the Outline CEMP. Therefore, there is no change to this section since the 2018 planning application.

### 3.2 Employers Representative

UÉ and/or the Employers Representative (ER) remain responsible for monitoring compliance with the CEMP. The ER will still appoint temporary or permanent specialists as required. Therefore, there is no change to this section since the 2018 planning application.

### 3.3 The Contractor

The role and responsibilities of the Contractor remain the same as in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

### 3.4 Contractors Environmental Manager

The Environmental Manager will remain appointed by the Contractor. Their qualifications and responsibilities will remain as per the Outline CEMP.

The ISO 14001:2015 Environmental Management Systems has not been updated since the preparation of Outline CEMP in the 2018 planning application.

There is no change to this section since the 2018 planning application.

### 3.5 Environmental Specialists engaged by the Contractor

The qualified and experienced professionals to be engaged by the Contractor remain the same as in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

### 3.6 Contacts

The emergency contact list will be generated up to the same standards required in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

## SECTION 4 Environmental Management Procedures

### 4.1 Training

An Environmental Training and Awareness Programme will be established up to the same standards requested in the Outline CEMP in the 2018 planning application. Requirements for training and awareness of personnel and signed records of environmental training will remain as outlined. Therefore, there is no change to this section since the 2018 planning application.

### 4.2 Environmental Management – Coordination Meetings

Coordination meetings will still be held at the same regular intervals, with the same participants and at the same locations stated in the Outline CEMP. Therefore, there is no change to this section since the 2018 planning application.

### 4.3 Environmental Management – Contract Meetings

Monthly meetings and site walk overs will still be held by the Contractor's Environmental Manager, involving all the parties requested in the Outline CEMP. Agenda and other requirements remain as stated in the Outline CEMP. Therefore, there is no change to this section since the 2018 planning application.

### 4.4 External Communications

UÉ will still have in place a public communications management plan, and the Contractor's Environmental Manager will still be informed and consulted about environmental issues as requested in the Outline CEMP. Therefore, there is no change to this section since the 2018 planning application.

### 4.5 Monitoring, Inspections and Audits

#### 4.5.1 Monitoring

Monitoring requirements will remain as stated in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

#### 4.5.2 Inspections

Inspection requirements will remain as stated in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

#### 4.5.3 Audits

The requirements for audits will remain as stated in the Outline CEMP in the 2018 planning application. Contractor's planned audits, third party Environmental audits and site visits by regulatory bodies will proceed as outlined, and the Contractor's Environmental Manager role on these will remain unchanged. The audit's items, procedures to follow in case of a Corrective Action Report (CAR) and audit reports remain as per the CEMP. Therefore, there is no change to this section since the 2018 planning application.

### 4.6 Environmental Incident Response and Investigations

The Environmental Incident Response Plans (EIRPs) remain as per the Outline CEMP, including its definition, requirements and responsibilities. Environmental incidents will be recorded in Environmental Incident Forms by the Contractor. These reports will include the same items required in the CEMP. The Contractor will ensure to take the same actions after an environmental incident outlined in the CEMP. Therefore, there is no change to this section since the 2018 planning application.

## 4.7 Corrective Actions

Corrective Actions will remain as stated in the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

### 4.7.1 Corrective Action Reports

Corrective Action Reports (CAR) will be used as defined in this section of the 2018 CEMP. The CAR template included in the Appendix A of the EIAR remains valid. Therefore, there is no change to this section since the 2018 planning application.

## 4.8 Reporting

### 4.8.1 Environmental Compliance Report

The requirements for the Contractor's Environmental Compliance Report remain unchanged from the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

### 4.8.2 Incident Investigation Reports

The requirements for the Incident Investigation Report remain unchanged from the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

## 4.9 Environmental Records

All the environmental recording requirements stated in the 2018 CEMP remain unchanged from the Outline CEMP in the 2018 planning application. Therefore, there is no change to this section since the 2018 planning application.

## SECTION 5 Environmental Management Measures – General

Table 5-1: General Construction Management Measures provided in the Outline CEMP in the 2018 planning application. Any changes since the 2018 application are noted in the table below. This table is to be read in conjunction with Table 5-1 in the Outline CEMP in the 2018 planning application.

**Table 5-1: Changes to General Construction Measures since the 2018 application.**

Topic	Changes in Management Measure
Guidance Documents	<i>Best Practice Guidelines for the Preparation of Resource Management Plans for Construction and Demolition Projects</i> (EPA 2021) has been published since the 2018 planning application.
Extreme Weather Events	<p>This is a new requirement since the 2018 planning application.</p> <p>Contractor’s Construction Environmental Management Plan (CEMP) should consider all measures deemed necessary to manage extreme weather events and should, as a minimum, cover training of personnel and prevention and monitoring arrangements. Mitigation will include:</p> <ul style="list-style-type: none"> <li>▪ Construction method statements to consider extreme weather events where risks have been identified;</li> <li>▪ Emergency preparedness and contingency procedures in place for an extreme weather event on the construction site or within the supply chain;</li> <li>▪ Contractor to schedule concrete curing to avoid peak temperatures;</li> <li>▪ Contractor to consider increased dust suppression measures in hot and dry conditions;</li> <li>▪ Contractor to have health and safety plan in place that takes into consideration dust-related air quality concerns; and</li> <li>▪ Use short to medium range weather forecasting to inform short to medium term programme management, environmental control, and impact adaptation measures. Contractor to register with the flood warning service in areas of flood risk.</li> </ul>
Green House Gas Emissions	<p>The following mitigation measures will be put in place by the appointed contractor to reduce the impact of Green House Gas (GHG) emissions:</p> <ul style="list-style-type: none"> <li>▪ Materials procured for major asset components will have verified Environmental Product Declarations (EPDs).</li> <li>▪ The Contractor will be required to ensure that construction vehicles will conform to the latest EU emissions standards, and where reasonably practicable, emissions will meet upcoming (new) standards to ensure emissions on construction access routes are minimised.</li> <li>▪ The Contractor will be required to ensure that on-road vehicles including passenger vehicles and shuttle buses for staff transportation must comply with set emissions standards (2023).</li> </ul>

## SECTION 6 Environmental Management Measures – RBSF Element

### 6.1 Population and Human Health – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for human health. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

### 6.2 Water Management – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for water environment. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

### 6.3 Terrestrial Biodiversity Management – RBSF Component

Following the review of the impact assessment presented in Section 6A (Biodiversity – Terrestrial) in Volume 4A Part A of the EIAR Addendum, the following additional mitigation measures have been identified.

Topic	Changes in Management Measure
Habitat enhancement	<p>All habitats that are within the redline boundary and are to be retained during the Construction Phase (including hedgerows, drainage ditches and other water features at the edge of the redline boundary) will be protected in advance of, and during construction, to avoid any incursion into them by personnel, construction plant or materials and to avoid and minimise any changes to the quality of those habitats (e.g., through changes in water quality such as with respect to silts, hydrocarbons or other pollutants).</p>
Habitat enhancement	<p>A Biodiversity Implementation and Monitoring Plan will be prepared by the appointed contractor and the EcCOW, in consultation with Uisce Éireann, prior to the commencement of construction and implemented thereafter. The Biodiversity Implementation and Monitoring Plan will be required to include the following:</p> <ul style="list-style-type: none"> <li>▪ Measures to secure the delivery of the area and linear measurements of habitats identified to be delivered post-development;</li> <li>▪ Measures to ensure the post-development habitat values attributed to each habitat are at least achieved within five to 10 years post habitat creation / restoration following completion of the Construction Phase. This will include the use of nutrient poor soil (subsoils) in the creation of dry meadow grasslands. Reference should be made to <i>Biodiversity Guidance for Irish Water Developments (IW-AMT-GL-021)</i> (Uisce Éireann, 2021);</li> <li>▪ Operational Phase habitat management measures following completion of the Construction Phase. This will include a schedule of requirements for the management of woodland, hedgerow and grasslands consistent with <i>Biodiversity Action Plan</i> (Uisce Éireann, 2021);</li> <li>▪ Operational Phase habitat monitoring to ensure that the Operational Phase management is delivering, as a minimum, the post-development five to 10 year habitat values assigned in this assessment. This will involve habitat surveys of all created, reinstated and enhanced habitats within Uisce Éireann’s control in Year 1, 3, 5, 8 and 10 of the Operational Phase.</li> </ul>
Habitat enhancement	<p>All measures will include specifications for the creation and restoration of all habitats identified, cross-referencing, as appropriate, to the relevant Landscape Management Plan which will be prepared and implemented by the appointed contractor and will align with the Landscape Layout presented in Figure Y17702-PL-011 of the 2018 EIAR, which include mitigations as follows:</p> <ul style="list-style-type: none"> <li>▪ Immature woodland, dry meadows and scrub within the site; and</li> <li>▪ Protection / creation of hedgerows along the sites boundaries.</li> </ul>



## 6.4 Noise and Vibration Management – RBSF Component

Changes to the mitigation measures in this section of the Outline CEMP in the 2018 planning application are provided below.

Topic	Changes in Management Measure			
Construction Management – Noise Limits	Construction activities will be required to comply with the following updated noise limits, measured at the nearest noise sensitive receptor:			
	Period	2023 Baseline Assessment		
		Rounded Baseline Noise Level LAeq (dB)	Category	Suggested CNT
	Daytime (07:00 – 19:00) and Saturdays (07:00 – 13:00)	60	A	65
Evening (19:00 to 23:00hrs)	60	C	65	
Night-time (23:00 to 07:00hrs)	60	C	55	
Operational Noise Control Measures	<p>In respect of inward noise impact on the noise-sensitive spaces within the development itself, the following internal criteria will be adopted during the detailed design stage by the appointed Design and Build contractor. Intrusive noise levels within the spaces shall not exceed:</p> <ul style="list-style-type: none"> <li>▪ Open plan office ≤ 50 dB LAeq,T, and;</li> <li>▪ Individual offices ≤ 40 dB LAeq,T.</li> </ul> <p>Prior to the commencement of the development, a detailed noise compliance statement confirming the building envelope sound insulation performances and expected noise levels will be submitted to the planning authority for their approval.</p>			

## 6.5 Odour Management – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for management of odour. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.6 Dust Management – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for management of dust. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.7 Land and Soils (Including Waste) Management – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for land and soils or waste management. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.8 Archaeology and Cultural Heritage Management – RBSF Component

No additional mitigation measures have been proposed as part of the EIAR Addendum assessment for archaeology and cultural heritage. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.9 Landscape and Visual Management – RBSF

No additional mitigation measures have been proposed as part of the EIA Addendum assessment for landscape and visual. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.10 Material Assets Management – RBSF

No additional mitigation measures have been proposed as part of the EIA Addendum assessment for material assets. The measures outlined in this section of the Outline CEMP in the 2018 planning application remain valid and applicable and will be implemented.

## 6.11 Traffic Management – RBSF

Changes to the mitigation measures in this Section of the Outline CEMP submitted in the 2018 Planning Application are provided below.

Topic	Changes in Management Measure
Construction Traffic Management	A temporary traffic signal or STOP/GO traffic management systems at N2 Northbound Slip Road (Priority) Junction shall be implemented as part of the Detailed Traffic Management Plan process and restrictions shall be placed on the movement of construction related traffic if deemed necessary following consultation with Fingal County Council and/or an Garda Síochána.

## APPENDIX A: ENVIRONMENTAL MANAGEMENT FORMS

There is no change to the template environmental management forms since the 2018 planning application.

## APPENDIX B: CEMP CONTACT LIST

There is no change to the template CEMP contact list since the 2018 planning application.