

ATTACHMENT G

Resources Use & Energy Efficiency

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ATTACHMENT G.1

Raw Materials & Energy

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Attachment G.1 Raw Materials and Energy

With the exception of the wastes described in Section E of the application form, the other materials, intermediates and products that may be used on-site include diesel, engine and hydraulic oil for the plant and water, electricity etc. Projected details of the raw material and energy consumption at the facility are presented in Section 15.5, Table 15.1 of the EIS.

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ATTACHMENT H

Materials Handling

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ATTACHMENT H.1

Waste Types & Quantities

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Attachment H.1 Waste Types & Quantities

Table 1 Total Waste Inputs

Waste Type	Maximum Capacity*
C & D	180,000
Clean Soils & Subsoils	100,000
Greenwastes	5,000
Total	285,000

*Subject to Market Conditions

EWC Codes Proposed for acceptance:

C&D & Soils

17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)

17 01 concrete, bricks, tiles and ceramics

17 01 01 concrete

17 01 02 bricks

17 01 03 tiles and ceramics

17 01 07 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

17 05 04 soil and stones other than those mentioned in 17 05 03

17 05 06 dredging spoil other than those mentioned 17 05 05

17 05 08 track ballast other than those mentioned in 17 05 07

17 09 other construction and demolition waste

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

Greenwaste

20 02 garden and park wastes (including cemetery waste)

20 02 01 biodegradable waste

ATTACHMENT H.2

Waste Acceptance Procedures

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Attachment H.2 Waste Acceptance Procedures

Waste Acceptance

Sections 4.8.3 and 4.9.5 of the EIS describes the proposed waste acceptance procedures.

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ATTACHMENT H.3

Waste Handling

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Attachment H.3 Waste Handling

Waste handling and site operational procedures are outlined in Sections 4.8.4 and 4.9.6 – 4.9.9 of the EIS.

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ATTACHMENT H.4

Waste Arisings

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Attachment H.4 Waste Arisings

The facility will generate small volumes of office and canteen wastes associated with the employees. The operator will operate a source segregation policy to maximise the recovery of potential recyclable from the office/canteen waste. All recovered materials will be transferred off-site to EPA or Local Authority approved and licensed/permitted recovery/recycling facilities.

Details on the waste water that will be produced at the site is described in detail in Section 4.9.4 of the EIS.

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ATTACHMENT I

Existing Environment & Impact of the Facility

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ATTACHMENT I.1

Air

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Attachment I.1 Air

An assessment of the ambient air quality at the site is presented in Section 9.2 of the EIS. The assessment included dust and bioaerosols. An assessment of the atmospheric emissions and impacts is included in Sections 9.3 of the EIS. Emissions to air from the proposed development are considered unlikely to impair the environment or cause air pollution.

In addition to the monitoring carried out as part of the EIS (August-September 2006), further dust monitoring was carried out in April 2007 following a request from Cork County Council as part of the planning process. The monitoring was carried out at the same locations using Bergerhoff gauges specified in the German Engineering Institute VDI 2119 document entitled "Measurement of Dustfall Using the Bergerhoff Instrument (Standard Method)".

The results, which are summarised below, were all significantly below the 350 mg/m²/day limit normally set in Waste Licences. The quarry operations were ongoing during the monitoring period.

Dust Deposition Results – April-May 2007

Sample Location	April-May 2007 Dust Deposition (mg/m ² /day)
D1	132
D2	144
D3	145
D4	151

ATTACHMENT I.2

Surface Water

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Attachment I.2 Surface Water

There will be no discharge to surface water associated with the waste activities.

The emissions to the surface water drainage system are described in Section 4.9 and 7 of the EIS. In 2008 the applicant was granted a Trade Effluent Discharge Licence (W.P. (W) 13/08) to discharge water used in the on-site sand and gravel washing plant to the stream that runs adjacent to the eastern boundary. A copy of the Licence is included with Attachment E2.

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ATTACHMENT I.3

Sewer

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Attachment I.3 Sewer

There is no discharge to sewer from the facility. Sanitary wastewater is discharged to an on-site septic tank. The tank will be replaced by a proprietary wastewater treatment system, details of which will be agreed in advance with the planning authority.

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ATTACHMENT I.4

Hydrogeology

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Attachment I.4 Hydrogeology

Section 6 of the EIS describes the local hydrogeological conditions. During the planning process the County Council requested a further assessment of the ambient hydrogeological conditions at the site and the potential impact of the facility on groundwater. The report on this assessment is included in Attachment E4

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ATTACHMENT I.5

Ground Contamination

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Attachment I.5 Ground Contamination

There will be no direct long-term emissions to ground or groundwater. The provision of paved areas for waste inspection and secondary containment of oil storage minimises the potential for short term direct or indirect discharges to ground or groundwater.

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ATTACHMENT I.6

Noise

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Attachment 1.6 Noise

I.6a

A baseline noise assessment was carried out to determine the ambient noise environment at the site and is described in Section 10.2 of the EIS.

I.6b

Noise prediction modelling was carried out to assess the potential impacts of noise due to the facility. The results of this assessment are presented in Section 10.3 of the EIS.

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ATTACHMENT I.7

Ecology

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Attachment I.7 Ecology

There are no undisturbed areas on the site and an ecology survey was not deemed necessary. Significant landscape works are proposed for the facility and these are described in Section 4.7.8 of the EIS. Following a request from the County Council a detailed landscape plan was developed for the northern portion of the site. The detailed landscaping plan, which was prepared by Jermyn Egan Landscape Consultants Ltd, is included in this Attachment.

The proposed development will have a positive impact on the ecology of the site and surrounds.

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PROGRAMME OF IMPLEMENTATION

Implementation of the landscape proposals that begin as soon as practical in being able to achieve the objectives as quickly as possible.
Landscape work to the site boundaries will run in conjunction with the proposed reinstatement of Stages 1 and 2.
No landscape work will be completed within 12 months of the commencement of the reinstatement and planting shall take place within the recommended planting seasons.

VEGETATION, PLANTING AND MAINTENANCE

Planting shall be specified to establish maximum effectiveness as quickly as possible where indicated tree planting where shown shall be of a size (December 3 - 1 Continuous) Standard trees are to be staked and will be supplied and planted at a size of 1.8/1.0m.
Tree planting shall occur where shown along the embankment.
Traditional native species hedgerow suppression planting will be supplied using 90/100 which will establish within a 3 to 5 year period. These plantings shall cover a period of time to establish the hedgerow which borders to the public roads and that also provide a screen overlooking into the site.
The hedgerow planting should occur along the public road side of the embankment, in locations where shown.
The hedgerow planting is to fill gaps in the existing hedgerow vegetation and should also supplement areas of the hedgerow which are considered to be inadequate as a screen to the site.
Plant as well as: staggered rows or 500mm apart. Plants to 500mm dia.

All trees and other plants should be supplied with suitable rubber protection.

THE PROPOSED AGRICULTURAL LAND AREA

The proposed agricultural areas shall be developed as one large field (Stages 1 and 2).
The adjacent shall be cleared of trees and high maintenance amenity grass.
The placement of inlets will not be carried out in periods of peak water flow to avoid ground compaction.
The proposed field area should be rolled, 100 dressed and seeded in accordance with best agricultural practice.
Minimum depths of soils are as follows:
Topsoil 150 to 300mm. Subsoil 300mm.

Grass seeding, including its establishment and maintenance is to be specified by an Agriculturist.

If it is proposed to progressively re-estate portions of the site starting in the north west (Stage 1).
Subsequent reinstatement will extend along the boundary towards a perimeter screening bund in the north east (Stage 2).
The final Stage will be carried out in the south of the site (Stage 3).

GRADIENTS

The final gradients of the reinstated areas should be rolled out to provide a smooth transition and to be sufficiently gentle to allow for safe pedestrian access and animal welfare.
This particularly applies to the proposed bank and gradient at the south of the reinstated area.

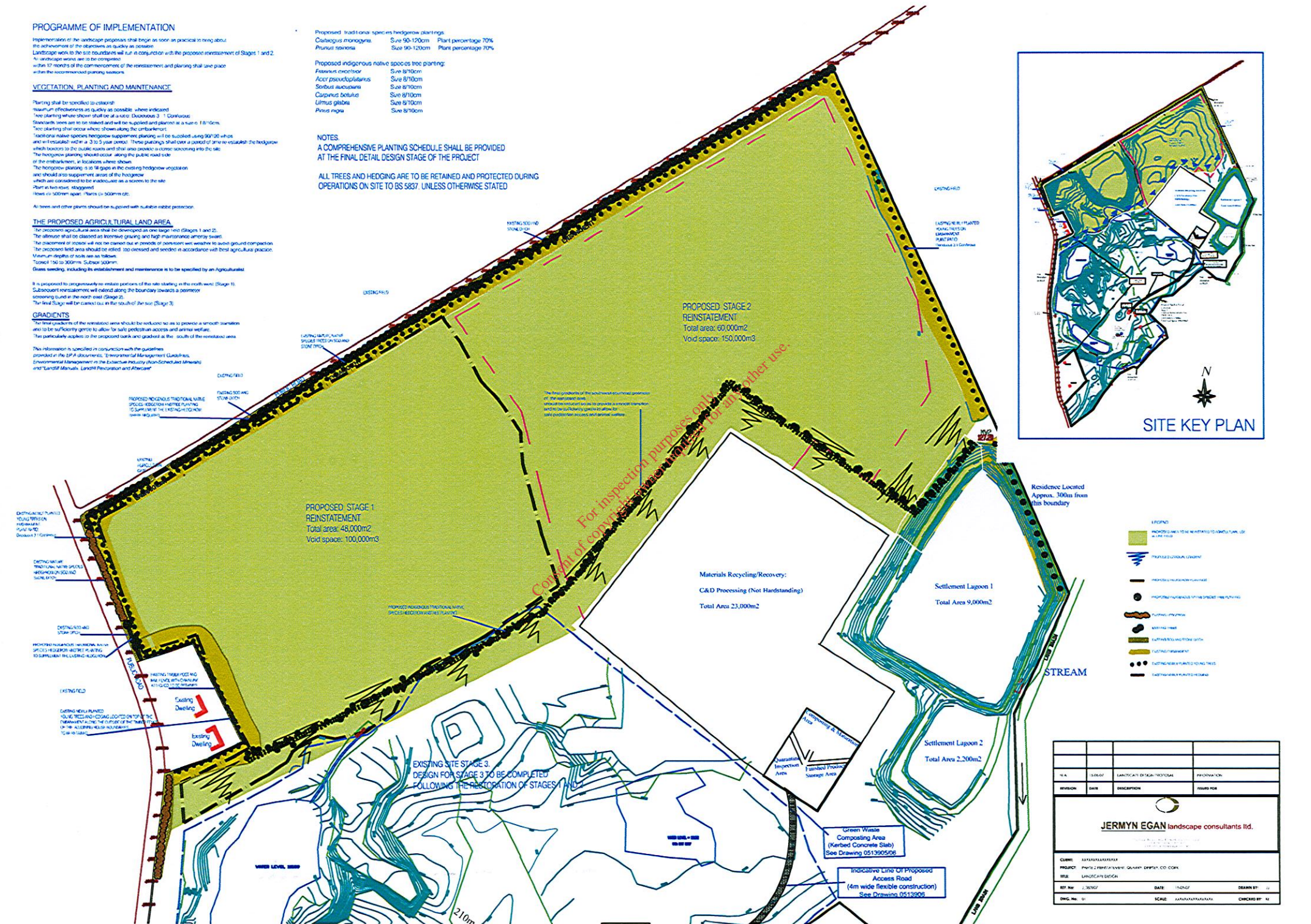
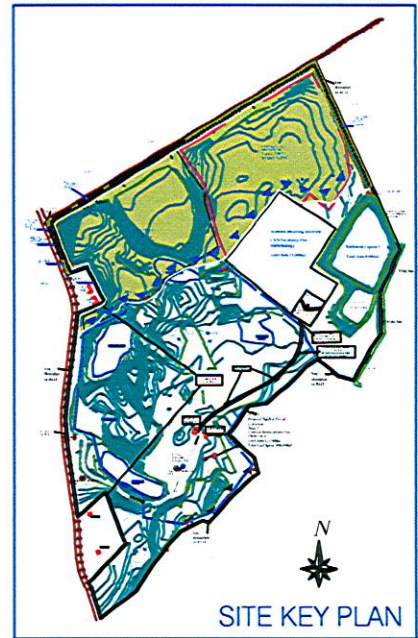
This information is specified in conjunction with the guidelines provided in the EPA documents: Environmental Management Guidelines, Environmental Management in the Extractive Industry (Manufacture, Mining and Landfill Materials, Landfill Reclamation and Aftercare).

Proposed traditional species hedgerow plantings:
Crataegus monogyna Size 90-120cm Plant percentage 70%
Prunus spinosa Size 90-120cm Plant percentage 70%

Proposed indigenous native species tree planting:
Fraxinus excelsior Size 8/10cm
Acer pseudoplatanus Size 8/10cm
Sorbus aucuparia Size 8/10cm
Carpinus betulus Size 8/10cm
Ulmus glabra Size 8/10cm
Pinus nigra Size 8/10cm

NOTES
A COMPREHENSIVE PLANTING SCHEDULE SHALL BE PROVIDED AT THE FINAL DETAIL DESIGN STAGE OF THE PROJECT

ALL TREES AND HEDGING ARE TO BE RETAINED AND PROTECTED DURING OPERATIONS ON SITE TO BS 5837, UNLESS OTHERWISE STATED



SITE KEY PLAN

- EXISTING FIELD
- PROPOSED STAGE 1 REINSTATEMENT
- PROPOSED STAGE 2 REINSTATEMENT
- PROPOSED FUTURE USE OF EXISTING FIELD
- PROPOSED FUTURE USE OF EXISTING FIELD
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- PROPOSED FUTURE USE OF EXISTING FIELD
- PROPOSED FUTURE USE OF EXISTING FIELD
- PROPOSED FUTURE USE OF EXISTING FIELD

REV	DATE	DESCRIPTION	ISSUED FOR

JERMYN EGAN landscape consultants ltd.			
CUSTOMER:	XXXXXXXXXXXXXXXXXXXX	DATE:	15/04/2017
PROJECT:	PHASE 2 REINSTATEMENT QUARRY DEEPENING WORKS	SCALE:	XXXXXXXXXXXXXXXXXXXX
SITE:	LANDFILL DESIGN	CHECKED BY:	
REF No:	J_201607	DATE:	15/04/2017
DWG. No.:	01	SCALE:	XXXXXXXXXXXXXXXXXXXX

ATTACHMENT J

Accident Prevention & Emergency Response

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ATTACHMENT J.1

Accident Prevention & Emergency Response

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Attachment J.1 Accident Prevention & Emergency Response

The on-site potential for unauthorised or unexpected releases to the environment is considered to be confined to incidents such as fire and spills. O'Regans will prepare an Emergency Response Procedure, which will be forwarded to the Agency for approval before operations begin. The procedure will ensure a rapid response to any incident by trained staff and minimise the impact on the environment of any associated emissions.

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ATTACHMENT K

Remediation, Decommissioning, Restoration and Aftercare

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ATTACHMENT K.1

Decommissioning

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Attachment K.1 Decommissioning

There is no short or long term proposal to shut down or decommission any element of the proposed waste recovery facility. In the unlikely event that the facility has to close, the shut down will be carried out in accordance with the measures set out in the Decommissioning Plan, which is included in this attachment.

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DECOMMISSIONING PLAN FOR

WASTE RECYCLING FACILITY

AT

TULLIGMORE

DRIPSEY

CO CORK

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Prepared For: -

O'Regan Quarry Products Ltd.,
Tulligmore,
Dripsey,
Co. Cork.

Prepared By: -

O' Callaghan Moran & Associates,
Granary House,
Rutland Street,
Cork.

2008

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1. INTRODUCTION

The Decommissioning Plan is based on the following: -

- A review of the types of activities to be carried out on the site, including waste handling and recovery operations.
- Identification of potential hazards, including an evaluation of the raw materials and waste products that typically will be stored on-site, site hydrogeology, sewer and bund integrity.
- Identification of control measures to prevent incidents.
- Identification of all items of plant and other materials, including buildings that may be decommissioned, rendered safe or removed from site for disposal or recovery in the event of closure of the facility.
- Identification of all possible on-site locations where cleaning, decontamination or remediation works may be required in the event of decommissioning to prevent environmental pollution.

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2. DESCRIPTION OF ON-SITE ACTIVITIES

2.1 Proposed Site Operations

2.1.1 Site Layout

The site encompasses approximately 2.5 ha

2.1.2 Waste Types and Volumes

The anticipated waste types and volumes that will be accepted at the facility are shown on Table 2.1. In Stage 1 it is estimated that a maximum of 50,000 tonnes of recyclable materials, comprising C&D and C&I waste will be accepted at the site. It is anticipated that when the facility is operating at maximum capacity (following completion of Stages 2 and 3 and the receipt of a Waste Licence from the Environmental Protection Agency) waste inputs will increase to a maximum of 250,000 tonnes of waste per annum.

Table 2.1 Total Waste Inputs

Waste Type	Stage 1*	Maximum Capacity* (Stage 1, 2 and 3)
C & D and C & I*	50,000	120,000
Dry Recyclables	0	30,000
MSW	0	100,000
Total	50,000	250,000

*Subject to Market Conditions

2.1.3 Waste Acceptance Procedures

Wastes delivered to the facility will be subject to waste acceptance procedures to ensure that only suitable wastes are accepted. This will minimise the risk of the delivery of unsuitable material. O'REGANS will prepare documented procedures for the facility before wastes are accepted.

Initially, the majority of the C&D and C&I waste will be collected and delivered to the facility by O'REGANS collection vehicles. This will minimise the risk of the delivery of unsuitable material. The green waste will be delivered mainly by tree surgeons and landscape contractors. As the business develops it is envisaged that increasing amounts of waste will be delivered by third parties, including permitted waste collectors and commercial waste producers. The facility will not accept waste from members of the general public or from waste contractors who do not have a contract with O'REGANS.

The waste will be delivered to the facility in enclosed rear end loaders, curtain sided trailers and covered open top trailers and skips. All waste arriving at the facility will be inspected to determine if it is suitable for recycling activities. Any waste loads, which upon inspection are found to contain large amounts of unsuitable wastes, will not be accepted at the site but diverted to O'REGANS's Waste Licensed facility in Meath.

All waste delivery vehicles arriving at the facility will be obliged to enter onto the weighbridge at the site entrance where they will be weighed and accompanying documentation indicating the materials being transported checked. Following an initial inspection of the waste via CCTV on the weighbridge, the vehicle will then be directed to the relevant Recycling Building for off-loading.

Designated areas for specific waste types will be assigned inside the Buildings (Source separated plastic, cardboard, newsprint, WEEE, tyres and green waste). The waste will only be off-loaded inside the building close to the relevant designated area, where it will be inspected.

Any waste identified as not suitable following off-loading will be immediately removed and, where practical, returned to the delivery vehicle. If this is not practical, the waste will be stored in a designated quarantine area pending its removal off-site by the waste producer or the contractor who delivered the waste. In the event of the producer or contractor refusing to remove the waste O'REGANS will ensure that it is removed off-site and disposed of at an appropriate facility as soon as practical. O'REGANS will maintain records of the waste type, quantity and ultimate disposal/treatment facility.

2.2 Material Storage

All waste handling, processing and storage will be carried out inside the Recycling Buildings. The facility will primarily handle dry recyclable materials, although the residual MSW may contain materials contaminated by foodstuffs.

3. SCOPE OF THE DECOMMISSIONING PLAN

3.1 Scope of the Plan

This Plan sets out the actions to be taken by O'REGANS in the unlikely event of facility shut down, or a planned cessation for a period of greater than six months of all or part of the site involved in the licensed activity.

Should either of the above conditions occur O'REGANS will decommission, render safe or remove for disposal/recovery, all materials, waste, plant and equipment that may result in environmental pollution. The methodology used to determine the areas that must be addressed in the plan is outlined in Section 4.

3.2 Criteria Which Determines Successful Implementation

Successful decommissioning will only be complete when all buildings, equipment, materials, wastes or any other materials, which could result in environmental pollution, are removed from the site and recycled, recovered or disposed of in accordance with all regulations in force at the time. The programme to achieve the criteria set out in the plan is outlined in Section 5.

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4. AREAS ADDRESSED BY THE PLAN

The following aspects of the proposed facility operation were assessed.

4.1 Materials

It is anticipated that any shutdown of all or part of the site operations would be preceded by a scaling down of activities therefore further reducing the quantities of materials, particularly oils and fuel to be dealt with.

It may be possible to return some materials to the suppliers e.g. diesel, engine and hydraulic oils to the suppliers for resale or reuse. The remaining materials may have to be disposed of as waste, some of which may be deemed hazardous waste due to their composition e.g. oils. Such materials will be disposed of off-site in accordance with appropriate waste management regulatory requirements and facility waste management procedures.

4.2 Equipment & Processes

The pieces of plant include the trommel, loading shovel, baler, air compressor, grabs, shredder, conveyor, bag opener, forklift and yardsweeper. All of the plant would be suitable for use in other similar facilities. Given the nature of the waste to be handled at the facility, none of the items of plant equipment intended for resale or disposal would require specialist decontamination prior to removal off-site.

4.3 Environmental Monitoring Results & Reports

Environmental monitoring will be carried out in accordance with the conditions set in the Waste Licence and will include routine monitoring of sewer, dust and noise emissions. The monitoring programmes will be designed to identify any long term impact associated with the operation of the facility so as to allow effective remedial action and prevent or minimise environmental pollution.

4.4 Environmental Incidents

The site has been designed to minimise the impact of any environmental incident that may arise e.g. spills/leaks of oils/chemicals. Any environmental incidents that do occur will be thoroughly investigated and where necessary remedial measures will be implemented. A detailed review of all historic incidents will be completed as part of the decommissioning plan to assess the potential for residual soil contamination arising from such incidents.

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5. IMPLEMENTATION PROGRAMME

5.1 Consumable Materials

All materials and wastes will be stored in the designated areas. In the event of closure materials and waste will either be returned to the supplier, or be disposed or recovered by a licensed waste disposal contractor. All wastes will be removed for recovery/treatment/disposal at a licensed waste management facility.

Table 5.1 below presents the maximum quantities of consumable materials, broken down by generic types that it is anticipated would need to be removed off-site in the event of activation of the plan. The actual quantities may be smaller as any shutdown of all or part of the facility would most likely be preceded by a scaling down of activities that would allow a stage reduction in inventory.

Table 5.1 Maximum Quantities of Consumable Materials to be Removed Off-Site

Resource	Quantities
Diesel Oil	5000 litres
Hydraulic Oil	50 litres
Disinfectant	10 litres
Odour Neutralisers	15 litres
Engine Oil	40 litres

The largest contributor to the above is diesel which could be returned to the supplier.

5.2 Equipment & Process Materials

In the event of activation of the plan the plant equipment will be either sold for operational use or for scrap at an approved waste recycling/recovery facility. Following the removal off-site of all waste and finished product the waste processing and storage areas will be washed down.

5.3 Environmental Incidents

Any incidents that occur will be dealt with in accordance with the conditions of the Licence and the requirements of the Agency.

5.4 Environmental Monitoring Results & Reports

The environmental monitoring carried out by O'REGANS as part of the licence conditions will identify if any investigations or post closure monitoring is required to ensure that the facility poses no continuing risk to the environment. The baseline data compiled as part of the Waste Licence application indicates that the site presents no such risk. This will be reviewed based on monitoring data obtained during the operational period.

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6. TEST PROGRAMME & VALIDATION REPORT

6.1 Test Programme

The monitoring and reporting requirements, which will be set out in the Waste Licence, will be complied with until the licence is surrendered to the Agency. The monitoring will identify, if any environmental pollution has occurred during the lifetime of the Waste Licence. If the monitoring programme or the investigation of any future environmental incident identifies that any such contamination has occurred, a test programme will be set up to identify the nature and scale of any associated environmental pollution.

6.2 Validation Report

Following implementation of the plan, O'REGANS will produce a validation report that demonstrates its successful implementation. This report will confirm that there is no continuing risk of environmental pollution to the environment from the site.

This report shall address: -

1. Disposal of raw materials,
2. Disposal of wastes,
3. Decommissioning of plant and equipment,
4. Disposal of obsolete equipment,
5. Results of monitoring and testing,
6. The need for on-going monitoring or investigations.

This report will be submitted to the Agency within three months of execution of the Plan.

7. FINANCIAL PROVISIONS

It is estimated that the entire decommissioning of plant and equipment, removal/disposal of materials, testing to evaluate the successful implementation of the plan and preparation of a final validation report to complete the Decommissioning Plan will cost in the region of €50,000.

This sum includes for the following: -

1. Disposal of consumable materials,
2. Disposal of unprocessed wastes,
3. Decommissioning of plant and equipment,
4. Disposal of obsolete equipment,
5. Monitoring and testing to ensure compliance with licence conditions,
6. Preparation of reports.

The above figure is based on current disposal costs and waste quantities that would be generated in the event of activation of this plan. It will be possible to recuperate some of the costs through the sale of plant.

ATTACHMENT K.2

Aftercare Management Plan

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Attachment K.2 Aftercare Management Plan

It is not anticipated that the waste processing activities will cease in the medium to long term. In the unlikely event that the facility shuts down it will be decommissioned in accordance with the Decommissioning Plan which will be agreed with the Agency. Post closure measures for the monitoring and maintenance of the waste recovery areas and the restored areas will be agreed with the Agency.

Portions of the existing quarry will be reinstated as described in Section 4.7.8 of the EIS which accompanies the application and shown on the landscape drawing in Attachment I7.

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ATTACHMENT L

Statutory Requirements

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ATTACHMENT L.1

Section 40 WMA

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Attachment L.1 Section 40 WMA

Details of the emissions from the facility are presented in Section 4, 6, 7, 9 and 10 of the EIS. The emissions will not result in the contravention of any relevant standard or emission limit prescribed under enactment. The proposed development is consistent with the Cork Region Waste Management Plan 2004-2009.

The proposed site activities are based on best management practice and take into consideration the BAT Guidance Note for the Waste Sector: Waste Transfer Activities published by the EPA. The facility operations, when carried out in accordance with licence conditions, will not cause environmental pollution. The facility manager and deputy will complete the FAS Waste Management Training Programme, or equivalent agreed with the Agency, prior to the start of waste acceptance.

Energy will be used efficiently in the carrying out of proposed activities. Necessary measures will be taken to ensure limited consequences for the environment from accidents or the permanent cessation of activities at the site.

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ATTACHMENT L.2A

Offences & Convictions

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Attachment L.2A Offences and Convictions

O'Regans has never been prosecuted under the provisions of the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

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ATTACHMENT L.2B

Technical Competence & Site Management

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Attachment L.2B Technical Competence and Site Management

Details of the proposed facility management structure are provided below: -

- Facility Manager,
- Site Foreman,
- Weighbridge Operator,
- General Operatives,
- Drivers,
- Administration Staff.

Details of the final staff numbers and positions will be submitted to the Agency before start-up of the facility. The facility manager and deputy (foreman) will complete the FAS Waste Management Training Programme, or equivalent agreed with the Agency, prior to the start of waste acceptance. The personnel likely to be responsible for the implementation of the environmental management procedures at the facility are the facility manager and deputy.

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ATTACHMENT L.2C

Financial Provision

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Attachment L.2C Financial Provision

In the extremely unlikely event of the unexpected closure and/or bankruptcy of the facility the decommissioning plan of the application will be implemented. O'Regans will provide the Agency with the appropriate form of guarantee for this amount by way of a bond or other financial instrument as may be specified by the Agency.

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