 <b>AGAN</b> <small>Part of the Bechtel Group</small>	<b>Document No. DPM-001</b>	<b>Effective Date</b>	<b>Amendment</b>
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**AMENDMENT RECORD**

Depot Procedure No.	Depot Procedure Title	Amendment No.	Date of Issue	Review Date
DP001	Air Quality & Air Emissions Management	1	01.02.2017	28.09.2021
DP002	Energy Management	1	01.02.2017	28.09.2021
DP003	Waste Management	1	01.02.2017	28.09.2021
DP004	Emergency Preparedness & Response	1	01.02.2017	28.09.2021
DP005	Legislation Management	1	01.02.2017	28.09.2021
DP006	Fuel oil, Bitumen & Chemical storage	1	01.02.2017	28.09.2021
DP007	Oil Interceptor Management	1	01.02.2017	28.09.2021
DP008	Water Management	1	01.02.2017	28.09.2021
DP009	Ecological Management	1	01.02.2017	28.09.2021
DP010	Noise & Vibration Management	1	01.02.2017	28.09.2021
DP011	Landscape & Visual Impact	1	01.02.2017	28.09.2021
DP012	Traffic Management	1	01.02.2017	28.09.2021
DP013	Archaeology Impact Management	1	01.02.2017	28.09.2021
DP014	End-of-Life Plant Management	1	01.02.2017	28.09.2021
DP015	Site Security	1	01.02.2017	28.09.2021
DP016	Contractor Management	1	01.02.2017	28.09.2021
DP017	Communications, Incidents & Complaints	1	01.02.2017	28.09.2021
DP018	Corrective & Preventive Actions	1	01.02.2017	28.09.2021
DP019	Site Inspection Checklists	1	01.02.2017	28.09.2021
DP020	Accident Prevention Policy	1	01.02.2017	28.09.2021


  
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216983-04/11/2021-EIAR Main Report Part 2 (Project Description Part 2)

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## **DP001 Air Quality and Air Emissions Management**

**Scope:** This procedure defines the specific conditions relating to management, monitoring and control of air emissions and air quality which are contained in the sites Licensing Permits and Authorisations.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Lagan Materials Ltd. operates to ensure that dust levels associated with the activities at the site do not cause adverse impacts at sensitive locations. The controls and mitigation measures for minimisation of impacts on air quality as a result of dust generated include the following:

- A wheel wash facility shall be used at the entrance to the site;
- Fixed and mobile water sprays shall be used to control dust emission from material stock piles, road and yard surface as necessary in dry and/or windy weather. Records shall be maintained on the water spraying schedule;
- Trucks entering and leaving the site with dusty materials shall be covered and they shall pass through a wheel wash before exiting the site;
- A daily inspection programme shall be formulated and implemented in order to ensure that dust control measures are inspected to verify effective operation and management. Findings shall be recorded on the Daily Site Inspection Sheet;
- Dust deposition monitoring shall be carried out in accordance with the requirements of the authorisation permits in order to verify the continued compliance with relevant standards and limits.
- Plant and conveyers should be operated to minimise dust generation by ensuring all dust mitigation functions such as dust covers, wind boards, netting, extraction and collection systems are all functioning correctly. Regular visual inspections shall be carried out on all such plant and equipment.
- Under-trays and chutes should be provided to collect material dropping from conveyors. The height of free-fall of material from the under-tray should be minimised.
- Blowers, belt-scrappers or other devices should be fitted to clean conveyors to prevent build-up of spillage. Spillage should be cleared promptly.

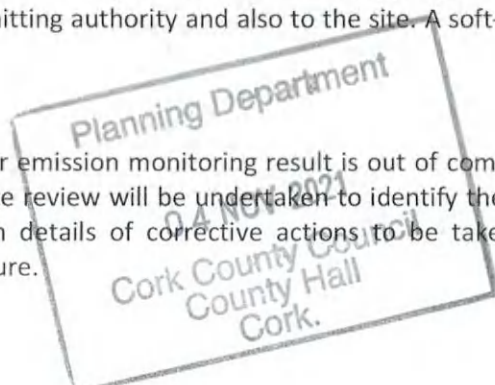
Odour monitoring where required shall be carried out at representative off-site locations during operating hours of any activity that could result in off-site odours (eg asphalt plant operation) to ensure that all operations on site are being carried out in a manner such that odours do not result in impairment of or interference with amenities or the environment beyond the site boundary. All odour inspections carried out around the vicinity of the site shall be recorded on the Odour Assessment Check Sheet.

### **3. Monitoring and Reporting**


Environmental monitoring reports will be prepared by external consultants and shall contain all information as required by the various conditions set out in the permissions. A hardcopy report with the results assessed against the permit limits will be issued to the permitting authority and also to the site. A soft-copy will be issue to the Lagan Materials Ltd. head office.

### **4. Corrective Actions**

If a dust monitoring result or air emission monitoring result is out of compliance or if an odour is identified within the vicinity of the site, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





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## **DP002 Energy Management**

**Scope:** This procedure defines the specific conditions relating to energy management for all activities at the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Lagan Materials Ltd. operates to ensure that energy usage associated with the site is minimised through the implementation of focused energy-saving procedures. Energy use shall be minimised by the adoption of energy efficient practices including the routine servicing of plant such as mobile generator units and vehicles. The Company will ensure that the following measures are considered and care is given to how energy is as far as is reasonably practicable on all contracts:

- Lighting levels should be appropriate for each task;
- Use the most efficient and up-to-date type of lighting;
- All external lighting should be maintained in a clean condition;
- Make best use of daylight by keeping windows and roof lights clean;
- Routine servicing and maintenance of all plant to ensure efficient energy consumption at all times;
- Conveyors and other parts to be shut down when not in use;
- Sufficient lubrication on all machinery and drives;
- Use of dry sand where possible to reduce energy inputs;
- Turn off all water taps completely and report any leak or drip as soon as discovered;
- Switch off any appliance or item of equipment which is not being used;
- Heated storage tanks, process pipework and vessels should be at the correct temperature and adequately insulated;
- Inlet filters on compressors should not be blocked and compressor houses well ventilated;
- Machinery and drives should be properly lubricated and not allowed to run unnecessarily.

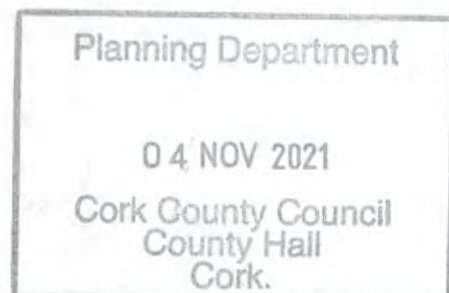
### **3. Monitoring and Reporting**


Records of fuel consumption per tonne of production are generated on a monthly basis for the site. This information is used to show performance of the plant on a monthly basis and is included in the annual appraisal for the site. This statistical information is recorded and filed at Lagan Materials Ltd. head office.

A summary of monitoring data and energy usage shall be prepared and included in the Annual Environmental Report prepared for the site. This report will be available for consultation at the Site Office on request.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.



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## **DP003 Waste Management**

**Scope:** This Procedure sets out the operating instructions that shall be followed to ensure that all waste, hazardous and non-hazardous, is stored and disposed of in accordance with the relevant waste legislation.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

The targets for waste management are to ensure that waste generation is minimised, that waste is stored in an environmentally protective manner and that waste disposal is in accordance with regulatory requirements. Daily and weekly inspections of the site shall be completed to ensure waste management is correctly carried out at the site and shall be recorded in the site inspection sheets.

The Company will take whatever action is deemed necessary to comply with legal requirements, whilst in addition do what is practicable and commercially viable to minimise waste. A policy of Reduce, Reuse, Recycle shall be encouraged with all employees

#### **2.1 Waste Segregation and Storage**

A system of bins and skips will be used to segregate waste. The following sections identify the types of waste that can be expected and identifies storage and disposal requirements for each.

Non-Hazardous Wastes likely to be generated for disposal off-site include the following: domestic waste, food, paper, plastic, cardboard, packaging, clean timber, road sweepings, sewage effluent waste, metals, tyres and sludge.

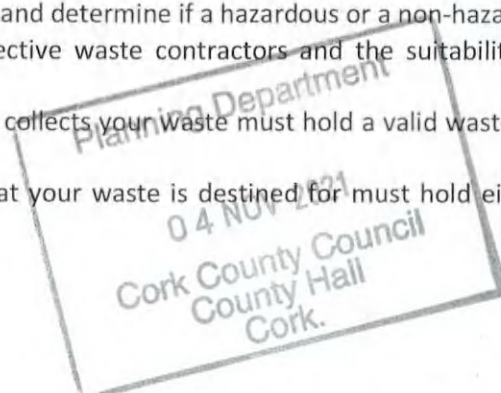
Hazardous Wastes likely to be generated for disposal off-site include the following: waste oils, oil contaminated materials, oily water, batteries, Waste Electrical and Electronic Equipment (WEEE), printer toner cartridges, oil filters, light bulbs, aerosols, interceptor sludge, interceptor sludge, contaminated soils, waste resin and paint tins.

Waste shall be properly segregated and contained in appropriate containers (skips, bins, bags etc) and covered where required to prevent water ingress or vermin damage and stored in dedicated waste storage areas. Waste storage containers shall be clearly labelled and banded where required. Waste shall be identified as recyclable, non-hazardous or hazardous.


#### **2.1 Waste Documentation**

All waste contractors collecting and removing waste from the site must have a current valid Waste Collection Permit and the Waste Facility Permit details of the location that the waste is going to. A copy of the Waste Collection Permit and the Waste Facility Permit shall be kept on file at the Lagan site for all waste contractors involved in removing and/or receiving any wastes from the site. Prior to consigning any waste off-site the following actions must be considered and completed:

- Determine the nature of the waste and determine if a hazardous or a non-hazardous waste contractor is needed;
- Examine the credentials of prospective waste contractors and the suitability of their services and facilities for handling and managing the waste;
- The waste haulage contractor who collects your waste must hold a valid waste collection permit from the relevant local authority;
- The waste management facility that your waste is destined for must hold either a valid Waste Facility Permit or Waste Licence;





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- Inform your waste contractor of the safe working procedures on-site and any temporary hazards associated with the collection and handling of the waste;
- Seek and record documentary proof of waste receipt and final disposal/recovery from the waste contractor and any other parties involved.

The documentation that is required for each waste consignment leaving the site shall be checked for the following before final signing and approval:

- Address: Ensure the correct address of the site the waste is departing from is used;
- Waste Description: Ensure the waste is correctly described and has the correct 6 digit EWC code assigned. The description needs to provide enough information to enable subsequent holders to avoid mismanaging the waste or causing injury;
- Quantity and Containment: Ensure the type of container (skip, bin) and capacity volume (10m<sup>3</sup>) and/or waste weight (500 kg) is recorded;
- Waste Carrier Details: Ensure the name, address and Waste Collection Permit Number of the waste carrier removing the waste from the site is recorded;
- Waste Receiver Details: Ensure the name, address and Waste Permit Number or Waste Licence number of the next destination/recipient of the waste is recorded;
- Date and time of transfer;
- Signatures of the waste carrier and the authorised Lagan depot personnel.

The waste transfer note copy shall be retained and kept on file at the Lagan site for two years and hazardous waste consignment notes shall be kept for three years after date of removal from the site.

### 3. Monitoring and Reporting

Details of all wastes generated for recovery or disposal on or off the site must be recorded. Records shall include the quantity of waste for disposal or recovery, description and nature of the waste, the EWC code, contractor details, method of disposal, date of dispatch and documentation reference numbers in relation to the waste consignment. The Waste Record Sheet Form shall be used for recording details of quantities of waste generated, recovered and disposed of on a daily basis or otherwise as required. The purpose of the records is to identify areas for waste reduction, to track the quantities of waste being recovered and to provide the necessary documentation to demonstrate that regulatory requirements for waste disposal are being complied with.

... summary of all waste statistics shall be prepared and an Annual Report shall be compiled for inclusion in the Annual Environmental Report for the site. This report will be available for consultation at the Site Office on request.

### 4. Corrective Actions

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with Corrective Action Depot Procedure.



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## **DP004 Emergency, Preparedness and Response**

**Scope:** This Emergency Response Procedure sets out the procedure for dealing with environmental emergencies during the activities at the facility.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

At all times, there shall be at least one person responsible for co-ordinating emergency measures at the site. The Emergency Co-ordinator shall be thoroughly familiar with this procedure, the Emergency Plan, all operations and activities on site and the location of emergency response and spill clean-up equipment.

#### **2.1 Spills and Leaks**

In the event of a chemical or oil or fuel spillage, the Emergency Co-ordinator is notified and is responsible for managing the spill. The following major actions shall be taken:

- The Emergency co-ordinator will determine the exact source of the spill or leak and the area affected. External emergency aid will be immediately summoned if required;
- Any source of ignition will be eliminated eg equipment that sparks, naked flames, hot surfaces in the spill area and all areas immediately downwind of the spill area;
- The Spill Crew wearing appropriate protective equipment as designated by the Emergency co-ordinator will remedy and stop the source of the spill if safe to do so (seal off visible leaks, turn off pumps etc);
- The area of the spill will be immediately contained (to prevent contamination of the surface water or groundwater) by the use of containment booms if the spill is not already within a fixed containment bund;
- The spill material will be absorbed using absorbent granules/material. This material will be contained and will be treated as hazardous waste for disposal.

An adequate supply of containment booms, absorbent granules, containers, clean up materials and protective equipment shall be stored on site at all times.

#### **2.2 Fire**

In the event of a fire the fire alarm should be sounded by activating the nearest alarm. On hearing the fire alarm personnel must evacuate the building by the nearest exit and assemble at the site entrance just in front of the weighbridge. If safe to do so and if trained to use a fire extinguisher then tackle the fire. If the fire cannot be controlled then the fire services should be called. The water used for extinguishing any fire shall be contained if possible for assessment before disposal or discharge through the surface water drainage system.

#### **2.3 Surface Water Contamination**

Surface water contamination may arise on site from a number of sources; these include greases, oils, fuel, chemical spill or suspended solids. In the event of surface water contamination immediate action shall be taken to stop the flow of contamination into the receiving water. Where there has been a discharge of oils or greases, oil booms and/or mats shall be used as necessary to remediate the surface water contamination and the mats disposed of according to the procedure for waste oil disposal.

#### **2.4 Groundwater Contamination**


In the unlikely event of groundwater contamination arising onsite, immediate action shall be taken to stop the flow of contamination into the area that is seeping to groundwater. If the source is not identifiable then an investigation shall be instigated until the source is identified. The extent of contamination shall be assessed and a clean-up programme

Planning Department

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Cork County Council  
County Hall  
Cork



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shall be implemented where necessary. An investigation shall be carried out as to the cause of the contamination and corrective actions will be taken to prevent a re-occurrence.

### 2.5 Flooding

In the event of flooding at the site all electrical components should be powered down and isolated where possible. The Emergency Co-ordinator should be immediately notified. All bunded areas should be checked to ensure their integrity. The fire brigade should be called if the situation is classified as an emergency and all site personnel should assemble at a safe location outside of the site. The fire services will handle the emergency situation and all site personnel should remain off site until the fire services authorise a return to the site.

### 2.6 Power Failure

In the event of a power failure at the site the electrical supply company should be notified immediately. The emergency shut down procedure for the various plant items should be followed and an inspection of the entire site should be carried out to ensure that there are no possible sources of pollution at the site due to the power loss. The site manager should be immediately informed and is responsible for ensuring the safe return of power supply the site.

## 3. Emergency Equipment

An oil spill kit(s) and a hazardous/non-hazardous spill kit(s) shall be held on-site at all times and shall include absorbent pads, booms and mats and disposable bags and ties. These kits shall be replaced immediately following their use during an emergency.

## 4. Monitoring and Reporting

The company will immediately notify the relevant licensing authority of the occurrence of any incident including:

- (i) an emergency;
- (ii) any emission which does not comply with the requirements of the licence;
- (iii) any indication that environmental pollution has, or may have, taken place.

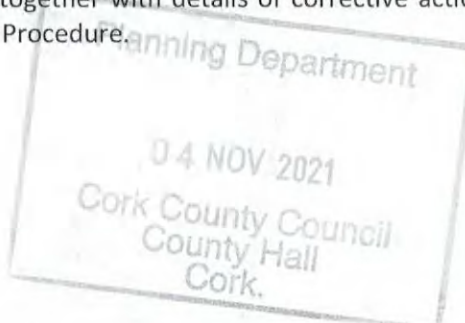
The incident notification form for the EMP shall also be filled out and shall include the following information:


- Date and time of incident;
- Details of the incident and circumstances giving rise to it;
- An evaluation of environmental pollution caused if any;  
Actions taken to minimise the effects on the environment;  
Steps taken to avoid recurrence;
- Any other remedial action taken.

A report on incidents shall be prepared and an Annual Report shall be compiled for inclusion in the Annual Environmental Report. This report will be available for consultation at the Site Office on request.

## 5. Corrective Actions

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.



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## **DP005 Legislation Management**

**Scope:** This procedure defines the management of environmental legislation for all activities at the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Lagan Materials Ltd. shall be responsible for liaising and communicating with the regulatory authorities, local councils and environmental groups and ensuring familiarity with all relevant environmental legislation applicable to the site and its activities. The company shall also be responsible to ensure that updates and changes to relevant environmental legislation and all new relevant environmental legislation are considered and accounted for in the operations and activities at the site.

Lagan Materials Ltd. maintains a register of applicable environmental legislation on its filing system at head office, which is controlled by means of an external service provider. The company provides a review and update of all relevant environmental Legislation each quarter for the Lagan Materials Ltd. group operations. Each update shall be reviewed by the Head of Planning and Environment. These reviews shall be recorded and required legislative amendments where applicable will be implemented into the EMS.

Lagan Materials Ltd. shall aim to meet or exceed all legislative regulations and standards and shall adopt monitoring systems to ensure compliance. In the absence of governmental legislation Lagan Materials Ltd. shall adopt recognised international standards or will recommend sound environmental practices.

### **3. Evaluation of Compliance**

The Company will prepare an Annual Compliance report which will evaluate compliance with all the site specific legal and other requirements relative to the environment. The compliance rate for the site will be evaluated by reviewing the non-compliances issued and the rate of failure to meet site Permission Limits and Conditions. The compliance rates are evaluated every quarter for the Group Board Meetings and also for the annual environmental review meeting for the site.







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## **DP006 Fuel Oil, Bitumen and Chemical Storage**

**Scope:** This procedure defines specific conditions relating to the sourcing, acceptance and storage of fuel, oil, bitumen and chemicals to ensure the protection of the environment and public health.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

All fuels and oils purchased for use at the facility shall be sourced from a company which has been approved by Lagan Materials Ltd. head office. All suppliers shall be either ISO9001 accredited or the supplier shall be audited by or on behalf of Lagan Materials Ltd. prior to addition to approved suppliers list. Every batch of reprocessed oil received at the depot must be accompanied by a test certificate; otherwise the batch will not be accepted. These certificates shall be held at site office and made available for inspection if necessary. The relevant Test Specifications are attached to this procedure as Acceptance Criteria for Thompsons and Acceptance Criteria for ENVA.

The fuel oil stores shall be bunded to 110%. Overfill protection mechanisms shall be installed on all fuel tanks. Refuelling operations shall only take place in suitably protected hard stands near the fuel tanks and any accidental spillages shall be contained using absorbent booms as stated in procedure DP004.

Bund integrity testing shall be carried out by a suitably qualified independent consultant at least every three years. The test procedure shall include the following:

- A thorough inspection of the bund;
- A photographic record of defects and other relevant issues of note;
- A bund integrity test in accordance with BS8004 shall be carried out at 3 year intervals or sooner if visual inspection indicates a potential requirement;
- On completion of the test and review of the data a detailed test report shall be prepared and held onsite for inspection and review.

Water or other liquid collected in the bund will be tested to determine its suitability for disposal. If there is visible oil present, the waste will be disposed as hazardous waste as described in Procedure DP003. If testing shows that the liquid is not contaminated, it may be disposed by diverting it to the interceptor.

### **3. Monitoring and Reporting**

A report on any integrity testing completed at the site shall be prepared and included in the Annual Environmental Report. Both reports will be available for consultation at the Site Office on request.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.

### **5. Attachments**

- Acceptance Criteria for Thompsons
- Acceptance Criteria for ENVA



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## Acceptance Criteria for Thompsons

### Determining when Waste Oil has been fully recovered: Interim Position

The Environment and Heritage Service (EHS) are currently working with the Environment Agency (EA), the Scottish Environment Protection Agency (SEPA) and the Department for Environment, Food and Rural Affairs (DEFRA) to review the implications of the recent Court of Appeal judgement in *OSS Group Ltd v Environment Agency* and take the actions necessary.

The appeal concerned the limited question 'whether a lubricating oil, thus not originally used as a fuel, which becomes waste can thereafter be burnt other than as waste...'. The conclusion was that, in order for a waste to cease to be waste 'it should be enough that the holder has converted the waste material into a distinct, marketable product, which can be used in exactly the same way as an ordinary fuel, and with no worse environmental effects'. The Court also suggested that DEFRA and the EA should provide practical guidance for those affected on what it referred to as 'the end of waste test'.

The EA set up a Task and Finish Group which aimed to develop a standard that satisfied the criteria set by the Court for waste lubricating oils. The initial report from that group showed that there was agreement that a specification is necessary to establish the point at which waste oil ceases to be considered as such. However, it was felt that the risks to human health and the environment of materials present in waste oils, which were subsequently burnt as a fuel, had not been clearly assessed.

The EHS agree with both DEFRA and the EA that more information is needed to develop the protocol, including the effects of zinc and certain heavy metals on human health and the environment. This will be taken forward by the EA with a view to producing a draft Protocol by the end of April.

In the meantime, the EHS believes industry requires guidance, on an interim basis, as to the circumstances in which we will regard a substance derived wholly or partially from used lubricating oils as having ceased to be waste. This guidance will be operative only until the Protocol is agreed, and is entirely without prejudice to any conclusions the protocol may produce. It should therefore not be relied upon as the basis for any long-term arrangements. During this interim period, the EHS will not regard fuel oils that are derived wholly or partly from waste lubricating oils, and that are used as fuel, as waste, if they are processed to meet the specification for Class G oils, excluding the requirements for viscosity, as specified within Table 3 of British Standard BS 2869:2006, (Fuel oils for Agricultural, domestic and industrial engines and boilers – Specification). For convenience these requirements are reproduced below.





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## Acceptance Criteria for Thompsons

### Properties of residue-containing burner fuels

Property	Class G	Test Method
Kinematic Flash point (Pensky-Martens closed cup) (°C) (min)	66.0	BS2000-34
Sulfur content [% (m/m)] (max)	1.0	BS2000-336
Water content [% (V/V)] (max)	1.0	BS2000-3374
Ash content [% (m/m)] (max)	0.15	BS2000-4
Carbon residue [microd [% (m/m)] (max)	20.0	BS2000-368
Total sediment (existent) [% (m/m)] (max)	0.15	BS2000-375
Strong acid number	Zero	BS2000-336

This position reflects the minimum requirements to enable optimal performance of burners/boilers using Heavy Fuel Oil as a fuel. It is not appropriate to require compliance for viscosity, as oils derived from waste lubricants will inevitably have a different viscosity and it would be unfair to penalise them for this.

The oil supplier and users are responsible for demonstrating that reprocessed oil meets the required specification. Reprocessed oils that do not meet the required specification will remain waste, and their movement and subsequent burning as fuel without compliance with the national controls in place to fulfil the requirements of the Waste Framework Directive, the Hazardous Waste Directive and the Waste Incineration Directive will constitute a criminal offence.

Please note that where an installation receiving such a fuel is permitted under the Pollution Prevention and Control Regulations (NI) 2003 or the Industrial Pollution Control (NI) Order 1997, additional requirements may apply and you should contact the Industrial Pollution and Radiochemical Inspectorate (IPRI) of EHS on 02890 569299.

If you have any queries about this note, please contact the EHS's Hazardous Waste team on 028 90 569710.



Acceptance Criteria for ENVA



**11LS Fuel Oil**



**Product Specification**

Properties	Method	Limit	Typical
Density	IP 160	NL	0.89
Water (% w/v)	IP 74	NL	1-3
Viscosity @ 40 ° C	IP 71	NL	140-220
Ash (% w/w)	IP 4	1.5	0.7
Sediment by Extraction (% w/w)	IP 53	NL	0.4
Sulphur (% w/w)	IP 373/86	<1.0	0.8
P.C.B. (p.p.m.)	ASTM D4059-90	1	<1
Lead (p.p.m.)	A.A	800	50
Vanadium (p.p.m.)	A.A	100	5
Cadmium (p.p.m.)	A.A	25	4
Chromium (p.p.m.)	A.A	50	2
Chlorine (p.p.m.)	IP PM -AK/81	3000	500
Nickel (p.p.m.)	A.A	100	5
Flash Point (° C)	IP 34 (PMCC)	NL	80
Asphaltenes (% w/w)	IP 143	NL	1
Gross Calorific (Btu/lb)	(ESTIMATE)	NL	20,000
Gross Calorific (MJ/kg)	(ESTIMATE)	NL	44

Note: this product is only suitable for use as a fuel.

Do not store or mix with substances that may be used for food applications.

Enva Ireland Ltd  
Clonminam Industrial Estate, Portlaoise, Co. Laois


Tel: 057 867 8600 / Call-saver: 1850 504 504 / Fax: 057 867 8699  
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a DCC company



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Cork County Council  
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Cork.



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## **DP007 Oil Interceptor Management**

**Scope:** This procedure defines specific conditions relating to the management of oil interceptors onsite.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Oil interceptors shall be properly maintained to prevent discharge of oil to surface water, groundwater, land or sewer. The outflow from the interceptor should be checked weekly for any signs of contamination. All interceptors shall be inspected in accordance with the manufacturer's instructions or every six months as a minimum. Inspections of the interceptor shall be carried out to ensure:

- correct operation and functioning of the interceptor;
- acceptable depth of accumulated oils and silts;
- no signs of leaking or physical damage to the interceptor;
- correct functioning of mechanical parts and warning devices where fitted.

A record of the inspection should be kept and any faults or damage should be reported and corrective action taken.

The interceptor should be periodically cleaned by a specialist contractor to remove accumulated oils and silts and the material should be disposed of according to the requirements set out in depot procedure DP003. The interceptor should be refilled with clean water after it has been emptied.


### **3. Monitoring and Reporting**

The interceptor cleaning shall be monitored and recorded on the Waste Management Record Sheet as per depot procedure DP003.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.



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## **DP008 Water Management**

**Scope:** This procedure defines the conditions relating to management, monitoring and control of surface water discharges, trade effluent discharges and groundwater dewatering and management for the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

A current and accurate site drawing showing all surface water drainage and discharge points shall be held on site and should clearly differentiate between surface and foul water drainage. A map showing all groundwater monitoring locations shall be maintained at the site. All water usage at the site shall be monitored and recorded. Any significant changes in water usage shall be investigated and the findings documented.

All discharge points shall be visually inspected daily unless otherwise specified in any regulatory requirement. A sampling regime that is in line with the requirements of the discharge licence and the site's pollution risks shall be established. This shall include testing of samples where appropriate. Where any visual pollution is detected in the discharge, a sample shall be taken immediately and tested.

Water with high suspended solids shall be prevented from entering watercourses and surface water drains by proper onsite management of surface water and by using silt traps, interceptors and settlement systems where appropriate. Settlement systems shall be carefully managed to ensure effective settlement capacity by desilting or rotation.

Effective controls to prevent contamination of groundwater resources and an effective monitoring programme to monitor groundwater quality and supply shall be put in place. The main controls planned for the protection of groundwater resources at the site and in the area include:

- Measures shall be taken to minimise water demand where appropriate;
- Wheel washing water travels into the underground interceptor for treatment prior to discharge into storm drain. Sampling is carried out at this discharge point;
- The drainage arrangements proposed for the site shall ensure that no uncontrolled discharge of drainage from the site occurs at any time, and hence no infiltration to groundwater;
- Storage of wastes, fuels and hazardous materials shall be in designated bunded storage areas to prevent any risk or contamination of groundwater.

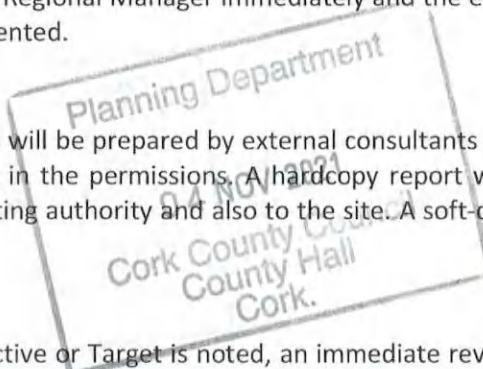
In instances when an actual or suspected uncontrolled release of pollutants occurs to a watercourse or groundwater, site management shall inform the Regional Manager immediately and the emergency response procedures as per depot procedure DP004 shall be implemented.

### **3. Monitoring and Reporting**


Environmental monitoring reports will be prepared by external consultants and shall contain all information as required by the various conditions set out in the permissions. A hardcopy report with the results assessed against the permit limits will be issued to the permitting authority and also to the site. A soft-copy will be issued to the Lagan Materials Ltd. head office.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





 <small>part of the Breardon Group</small>	<b>Document No. DPM-001</b>	<b>Effective Date</b>	<b>Amendment</b>
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## **DP009 Ecological Management**

**Scope:** This procedure defines the conditions relating to the management of the site in terms of its impact on ecology.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Lagan Materials Ltd. operate to ensure that the activities carried out on site will not cause adverse impacts on the terrestrial or aquatic habitat of the area. The main potential impacts relate to the impacts of discharges to surface water. These impacts are managed, monitored and controlled as outlined in depot procedure DP008.

To ensure that due care is taken to prevent damage to wildlife and to enhance biodiversity where possible the company carries out appropriate risk assessments where necessary by:

- identifying the valuable ecology at the site;
- assessing potential threats or impacts to the ecology;
- identifying ways of avoiding or minimising impacts.

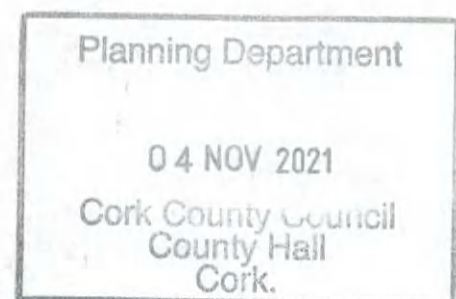
Where significant impacts have been identified, an ecological survey shall be carried out. Where the wildlife is protected under legislation stringent controls shall be followed.


To ensure that site ecology and biodiversity is preserved and enhanced the following actions shall be taken at the site:

- native vegetation and natural habitats shall be retained where practicable;
- unnecessary site clearance shall be avoided;
- unnecessary disturbance to vegetation and soil shall be avoided;
- areas that cannot be disturbed shall be clearly cordoned off;
- ensure that any protected species such as bats, badgers or sand martins are adequately monitored and stand offs maintained;
- invasive weeds and plants such as Giant Hogweed, Japanese knotweed, Ragwort and Himalayan Balsam shall be controlled effectively.

### **3. Monitoring and Reporting**

Where required environmental monitoring reports on ecological findings at the site will be prepared by external consultants and shall contain all information as required by the various conditions set out in the permissions or as requested by the relevant authority. A hardcopy report will be issued to the permitting authority and also to the site. A soft-copy will be issue to the Lagan Materials Ltd. head office.



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## **DP010 Noise and Vibration Management**

**Scope:** This procedure defines the conditions relating to management, monitoring and control of noise and vibration impacts at the site. The Procedure sets out the operating instructions to be issued to Contractors and employees to minimise noise and vibration impacts associated with the development.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

Noise levels at noise sensitive locations in the vicinity of the site shall be strictly controlled in accordance with the requirements of the conditions imposed by the permits for the site. Lagan Materials Ltd. operate to ensure that noise levels associated with the development do not cause adverse impacts at noise sensitive locations. Practical instructions in accordance with the guidance in *BS5228: Noise Control on Construction and Open Sites* are issued to all contractors and employees and include the following:

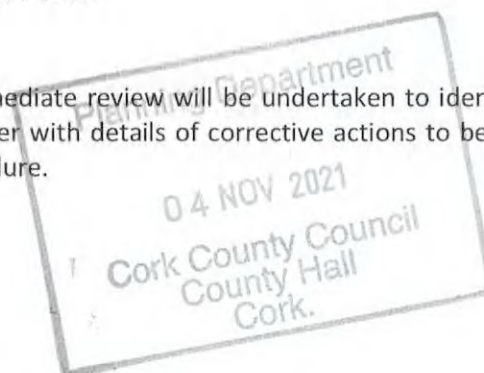
- Working hours shall be strictly confined to the hours stated in the sites permissions;
- There shall be no works on Sundays or Bank Holidays;
- The lowest possible noise level reverse warning alarms consistent with site safety shall be utilised;
- Compressors and pumps shall be enclosed and insulated where possible when in use;
- Muffling devices shall be fitted to ensure that effective noise control is achieved;
- Unnecessary revving of engines shall be avoided;
- Equipment shall be switched off when not in use;
- Plant and vehicles shall be properly maintained and, in particular, the effectiveness of silencers and lubrication of bearings and moving parts shall be carefully monitored; cutting edges of relevant equipment shall be kept sharp;
- For directional noise sources e.g. reversing trucks, the noise source shall be pointed away from the nearest noise sensitive receptors wherever possible;
- Internal haul roads shall be effectively maintained and constructed in such a way as to minimise gradients;
- Acoustic enclosures for pumps and generators and similar plant shall be used to minimise noise levels associated with their operation where possible;
- Drop heights for materials shall be minimised;
- Plant and vehicles shall be started sequentially rather than all at once;
- When working in close proximity to noise sensitive receptors the works programme shall be carefully controlled so that noisy activities are planned in such a way that they do not all occur simultaneously.

### **3. Monitoring and Reporting**


Monitoring results shall be used to demonstrate compliance with the requirements imposed by the permit conditions and monitoring results shall be kept at the site and made available for inspection at all reasonable times. A hardcopy report with the results assessed against the permit limits will be issued to the permitting authority and also to the site. A soft-copy will be issue to the Lagan Materials Ltd. head office.

### **4. Corrective Actions**

If a monitoring result is out of compliance, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





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## **DP011 Landscape and Visual Impact**

**Scope:** This procedure defines the measures to be taken on site to ensure protection of the landscape and visual amenity of the area surrounding the site as quoted in the sites permissions.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**


The detailed landscaping plan for the site is available upon request. The landscaping plan shall be implemented as follows:

- Seeding and planting of screening bunds;  
Progressive restoration with replanting where appropriate;
- Growth will be encouraged on all medium to long term earth storage areas, with the aim of “greening up” any bare earth, thus blending it with the surroundings;
- Any new earthworks will be shaped to avoid “engineered” slopes which have a tendency to appear artificial and therefore out of place;
- Tree and shrub planting will be encouraged to support and strengthen existing hedgerow habitats;
- Earth ripping will be undertaken in compacted areas once access is no longer required, and clearance of potentially detriment waste identified;
- Earthworks and stored overburden will be kept to a reasonable height avoiding any breaking the horizon line from key visual receptors;
- Ecological management of the site will be carried out in accordance with depot procedure DP009.

### **3. Monitoring and Reporting**

A summary report shall be prepared and an Annual Report shall be compiled for inclusion in the Annual Compliance Report. This report will be available for consultation at the Site Office on request.



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## **DP012 Traffic Management**

**Scope:** This procedure defines the measures to be taken to protect the amenities of the area and traffic safety as quoted in the Permissions for the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

The mitigation measures for minimising the impact of increased traffic on the local road infrastructure are summarised as follows:

- In general, acceptance of deliveries shall only take place outside the AM and PM peak travel periods whenever possible;
- Traffic entering and leaving the site shall comply with any directions given by site management regarding the route to and from the site and also while on the site;
- Traffic entering and leaving the site shall comply with the speed limits in place on the public road and on the site;
- Upon arrival at the site all drivers shall report to reception before proceeding into the site;
- Site reception shall check the delivery to the site ensuring the correct materials are being transported in the proper manner;
- Site reception shall check that the Driver Authorisation Licence is valid for any new persons delivering to the site;
- Site reception shall check all deliveries leaving the site ensuring the correct materials are being transported in the proper manner;

### **3. Monitoring and Reporting**

There is no monitoring or reporting requirement associated specifically with this procedure.


### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.

If drivers are found to, or are reported to, have followed an incorrect route, a verbal warning may be issued. If two verbal warnings are issued, a written warning will be issued for the next offence and disciplinary proceedings will be initiated.





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## **DP013 Archaeological Impact Management**

**Scope:** This procedure defines specific conditions relating to archaeology preservation and protection of archaeological materials devised for the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

The mitigation measures relating to archaeology preservation and protection of archaeological materials for the site are summarised as follows:

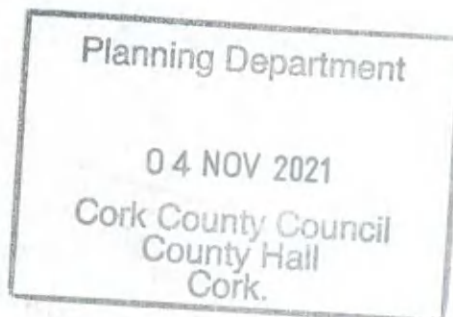
- If any virgin ground development is proposed for the existing site, a full archaeological assessment will be required before the work commences;
- Pre-development assessment shall include a geophysical survey and/or the excavation of test trenches carried out by a licensed archaeologist prior to the commencement of any groundworks;
- Any topsoil stripping within the site and any other site clearance or earthmoving works shall be monitored by a qualified archaeologist if required by the relevant authorities.

### **3. Monitoring and Reporting**

A summary report shall be prepared for any archaeological works completed at the site and shall be compiled for inclusion in the Annual Environmental Report. This report will be available for consultation at the Site Office on request.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.



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## **DP014 End-of-Life Plant Management**

**Scope:** This procedure defines specific conditions relating to the management of plant and equipment that is no longer in use at the site and has become redundant and will no longer be used at the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

In order to ensure that end-of-life plant and equipment is managed so that the item is either re-used elsewhere, recycled or disposed of before any pollution or contamination occurs the following actions shall be undertaken:

- Identify any plant and equipment that is stored on site but is no longer required for use;
- Determine if the plant and equipment is still useful and could be deployed at another Lagan site or sold;
- Check if the plant and equipment contain oils, lubricants, fuels or other potential contaminants which could result in pollution if the equipment is not properly managed;
- Drain plant and equipment of any potential contaminants to reduce potential for spillage if it is safe to do so;
- All plant and equipment disposed of as scrap metal should be drained of potential contaminants and these should be disposed of in accordance with depot procedure DP003;
- Ensure that end-of-life plant and equipment is securely stored with no potential to result in environmental pollution.

### **3. Monitoring and Reporting**

Details of all wastes generated for recovery or disposal on or off the site shall be recorded in accordance with depot procedure DP003.


A summary of all waste statistics shall be prepared and an Annual Report shall be compiled for inclusion in the Annual Environmental Report for the site. This report will be available for consultation at the Site Office on request.

### **4. Corrective Actions**

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





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## **DP015 Site Security**

**Scope:** This procedure defines specific conditions relating to the site security and the prevention of intruders accessing the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

In order to ensure that reasonable precautions are taken to prevent intruders from accessing the Lagan Materials Ltd. site resulting in damage to themselves or Lagan property the following actions shall be undertaken:

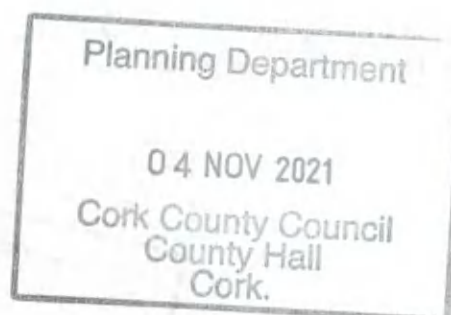
- A secure boundary fence shall be erected along all areas readily accessible by the public to prevent access to the site. A screening bank or boundary wall shall be erected along other areas which are not accessible from public roads etc;
- A lockable entrance gate shall be erected at the site entrance for all public access points into the site;
- Regular inspections of the security fence shall be carried out to identify and potential weaknesses;
- Buildings and offices shall be secured and locked before daily lock-up at the site;
- All access gates shall be locked by the last person leaving the site on a daily basis;
- All alarms shall be set by the last person leaving the site on a daily basis;
- Security lighting shall be activated if available;
- All plant and machinery shall be locked and/or stored away when not in use;
- All tools, materials and other sundry items shall be stored in locked containers or sheds when not in use and at the end of each working day;
- All volatile and/or polluting materials such as fuel, oils, paints etc shall be securely stored and not visible from the site boundaries accessible by the public.


### **3. Monitoring and Reporting**

Any break-ins, thefts of damaged caused by intruders at the site shall be reported to the Gardai and to senior management immediately upon discovery.

#### **Corrective Actions**

If a break-in at the site occurs, an immediate review will be undertaken to identify the cause and source of the break-in. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.



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## **DP016 Contractor Management**

**Scope:** This procedure defines specific conditions relating to the management of any contractors that enter the site to carry out works of any nature on the site.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

In order to ensure that the onsite activities of any contractor that carries out any works on the site are managed accordingly the following actions shall be undertaken:

- All Contractors that carry out any works on the site shall complete the Environmental Training for Contractors and sign the Approval for Completed Training before commencing any works onsite;
- All Contractors that carry out any works on the site shall be inducted on the environmental, health and safety (EHS) rules for contractors and be made aware of the sites Environmental Policy and the various environmental control measures that are in place on the site that may be relevant;
- All contractors shall identify how their activities could impact on the environment and detail their works to be undertaken and the associated precautions to be taken before permission for work is granted;
- The contractor must advise Lagan Materials Ltd. of any sub-contractors they are planning to use and ensure that the sub-contractor complies with the above requirements;
- The contractor shall notify Lagan Materials Ltd. of any hazardous substances they will be using on site and how these will be controlled;
- A point of contact for the contractor shall be established with Lagan Materials Ltd. site management prior to the commencement of any works on site;
- All contractors shall ensure that all plant and equipment brought onto site is fit for purpose and meets the relevant legislative standards;
- Contractors shall sign in and out at reception each time they enter and leave the site.

### **3. Monitoring and Reporting**


The contractors work should be checked daily by site management to ensure they are working in accordance with the requirements of this procedure. The work should be assessed to ensure that the contractor is competent to complete the works without adverse risk to environmental and health and safety standards.

### **4. Corrective Actions**

If the required standards are not being achieved by the contractor, their works shall be stopped and a review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





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## **DP017 Communications, Incidents and Complaints**

**Scope:** This procedure describes the processes which will be followed to deal with all communications received from and issued to the public with particular concern to any environmental matter raised by members of the local community. It also deals with the procedures to follow for any communication to and from the permitting authorities.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

#### **2.1 Company Communication**

Internal management communication on environmental issues shall be carried out via Environmental Management Review Meetings, informal meetings, and monthly senior management board meetings. Environmental review meetings : held quarterly. The agenda includes a review of the following:

- Environmental monitoring reports;
- Corrective action reports;
- Environmental audits;
- Environmental system effectiveness;
- Environmental policy, objectives, targets and programme;
- Emergency preparedness and response.

A Community Liaison Officer shall be available on site at all times and shall be appointed to ensure that the local community are kept updated on developments. Inquiries by the public either verbal or written shall be directed to the Community Liaison Officer. The following information shall be available to the public on request:

- Environmental Policy;
- Environmental Objectives, Targets and Programme;
- Monitoring Reports;
- Complaints Log, Complaint Investigation Reports and Follow up;
- Waste Disposal Log;
- Non-compliance reports and associated Corrective Action Reports.

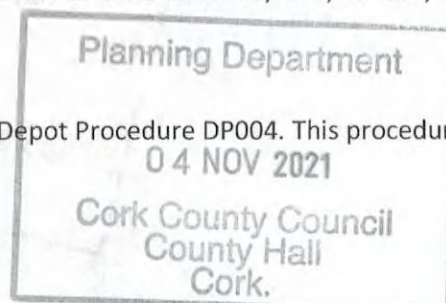
All managers are responsible for promoting environmental awareness amongst their employees, which includes keeping relevant personnel informed of environmental performance and related issues. The Company shall also use notice boards, update meetings, memo, email, phone etc. to keep employees informed of relevant environmental issues. A record of Environmental Training is kept at the site. This record must be signed and dated by both trainer and trainee at time of training and the area of training that has taken place must be indicated on the record form. All records shall be stored on file at the site office.


#### **2.2 Recording of Environmental Communications**

Environmental communications between interested parties shall be recorded at all sites. All incoming and out-going mail shall be recorded by the site manager or alternatively a nominated representative and a log of these records shall be kept on file at the site and made available for inspection. Details of date received/sent, sender, subject matter and action taken shall be recorded on the log.

#### **2.3 Incidents**

The Procedure for the reporting of Incidents is documented in Depot Procedure DP004. This procedure shall be followed for the notification of any incidents at the site.



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## 2.4 Complaints

Lagan Materials Ltd. has an Environmental Policy that includes a commitment to deal with concerns and queries of interested parties on environmental issues and to meet and exceed where possible the requirements of the interested parties. To ensure that the Company is complying with its Environmental Policy and Targets, records shall be kept to document any environmental concerns raised by members of the local community. The Company must investigate, take samples as appropriate and provide feedback by way of corrective actions and communication with the interested party and also notify the licensing authority of the complaint and subsequent actions taken.

Environmental complaints are to be directed to the Site Manager who is responsible for recording complaint details and carrying out the necessary investigations and corrective actions. All complaints will be recorded on the Environmental Complaints Register. Details of the management and follow up are recorded on the Environmental Complaint Investigation Form. Details to be recorded includes the date reported, complaint details, person responsible for dealing with the complaint, complainant's description of the problem, site notes and the action which has to be carried out. A Corrective and Preventive Action form may be raised where non-compliances are identified following a complaint.

## 3. Monitoring and Reporting


The monitoring and reporting should be carried out for all training, incidents and complaints of an environmental nature as described in the procedure above.

## 4. Corrective Actions

If a non-compliance with an Objective or Target is noted, an immediate review will be undertaken to identify the cause of the non-compliance. The details of the investigation together with details of corrective actions to be taken will be recorded in accordance with the Corrective Action Depot Procedure.





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## **DP018 Corrective and Preventive Actions**

**Scope:** Specific corrective actions for environmental issues are documented in this procedure and shall be used by the Company to deal with non-compliances which may arise when targets and objectives are not being met.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

It is Company policy to deal with all environmental non-conformances as soon as possible. A series of checks and audits throughout the process are designed to check for non-conformances. Corrective and preventative action shall be initiated immediately. Any changes in procedures resulting from these actions shall be implemented and recorded.

When any non-compliance is identified the Employee or Contractor must complete the Corrective and Preventative Action form according to the following steps:


- Enter the Corrective and Preventative Action (CPA) reference number use the format, CPA # - yr e.g. CPA 01-2018 for the first corrective and preventative action in the year 2017, numbering sequentially;
- Enter the type of non-conformance e.g. noise, dust, vibration, surface water, water supply, other air emissions or traffic nuisance;
- Identify how the non-conformance was found;
- Record the name of the person who found the non-conformance and issued the form;
- Record the details of the non-conformance i.e. which policy, objective or target is not being met and what is causing the non-conformance;
- Recommend the corrective and/or preventative action required. Take action immediately where the delegated authority exists in the Company's structure; or forward the recommendation to the appropriate person for approval of actions. Record the date and who the form was sent to for action;
- Record the corrective and preventative actions taken, the date and the initials of the person who took the action;
- Enter any follow up requirements and a date for reassessment to check future compliance;
- Report the non-compliance and action to the Technical Manager and forward the record to the Technical Manager for final check and sign off that the required actions have been taken to ensure ongoing compliance.

It is the responsibility of the Technical Manager to ensure that the necessary Corrective Action is implemented. Records of all Corrective Actions shall be kept in file at the site.

### **3. Monitoring and Reporting**

A summary report will be prepared for inclusion in the Annual Environmental Report for the site.



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## **DP019 Site Inspection Checklists**

**Scope:** This procedure defines the requirement for site inspections to ensure that Lagan Materials Ltd. is complying with its regulatory requirements and Environmental Policy and Targets.

### **1. Relevant Permits, Licences, Authorisations & Conditions**

A copy of all Permits, Licences and Authorisations must be held on site and available for inspection by the relevant Authorities at all times.

### **2. Management and Control**

The Technical Manager has overall responsibility for ensuring compliance with this procedure and the co-operation of all personnel is essential to its effectiveness. The Depot Manager is responsible for ensuring day-to-day compliance with the procedure.

Daily and weekly site inspections shall be undertaken by on-site staff to check on the environmental performance. The daily inspection form and the weekly inspection forms shall be used to carry out the inspection and its recording. Where the site inspection reveals any non-compliance with the Company's Environmental Policy, Objectives or Targets the Employee or Contractor must raise a Corrective and/or Preventative Action according to Procedure DP018. The Corrective Preventative Action (CAP) reference number must be recorded on the daily and weekly inspection forms as appropriate.


### **3. Monitoring and Reporting**

Records of daily and weekly site inspections undertaken shall be recorded on the assigned forms and these shall be filed on site and shall be made available to the permitting authorities on request. Alternatively, provision is made to document daily and weekly site inspections electronically on the "Effective Software" on a Tablet Device and these records shall be filed centrally on the company Server. These files shall be made available to the permitting authorities on request. Site inspections undertaken and corrective actions issued or taken shall be reported to the Technical Manager on a monthly basis.

A summary of the Inspection Findings shall be prepared annually and included in the Annual Compliance Report.





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## **DP020 Accident Prevention Policy**

**Scope:** The purpose of this Accident Prevention Policy (APP) is to set out the policies of the Company in respect of Accident Prevention at the Lagan Materials Ltd. site. The objective of this APP is to outline the protection provided for man and the environment by appropriate means, structures and management systems. The key features of this objective are:

- No major accidents;
- No "near miss" incident capable of leading to a major accident;
- No requirement to evacuate persons from areas on the site;
- No injury to neighbours or employees or damage to environment as a result of accidental emissions.

The APP contains objectives set out under the following headings which are required to be addressed by the Safety Management System for the site.

### **Management and Control**

#### **1.1 Organisation Personnel and Training**

The company (Lagan Materials Ltd.) will ensure that;

- The organisational structure is appropriate to minimise the risk of a major accident, and to minimise the consequences should one occur;
- All staff are made aware of the potential for major accidents and are trained, where relevant, in procedures needed to ensure that policy objectives are met;
- All contractors' staff are made aware of the potential for major accidents and are trained, where relevant, in procedures needed to ensure that policy objectives are met;
- All employees are aware of their responsibilities in the management of major accidents and are selected and trained to ensure that they have the necessary skills and experience to perform their duties;
- All the Company's employees have access to safety information and to data on Material Safety Data Sheets. All employees working directly with chemicals receive Chemical Safety Training upon induction. All employees are issued with a copy of the Company Safety Statement upon induction;
- Feedback from employees is encouraged on major accident issues in the course of training, risk assessment review and Health & Safety and Environmental audits. Employees are also encouraged to make suggestions and raise specific major accident concerns, which they may identify during operational activities;  
The necessary resources are made available for training of management and employees in the prevention of accidents, including major accidents;
- Systems are in place to co-ordinate the Health & Safety and Environmental Management System and ensure its effectiveness.

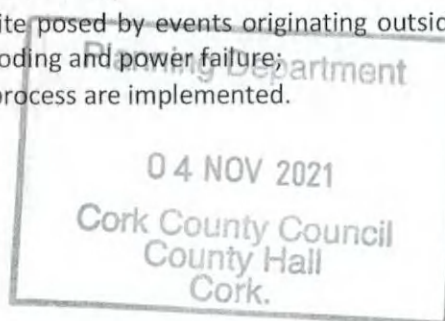
#### **1.2 Identification and Evaluation of Hazards**


The company (Lagan Materials Ltd.) will ensure that:

- The levels of risk are reduced to 'as low as reasonably practicable';
- Major hazards arising from normal and abnormal operations are identified and their likelihood and severity assessed;
- The identification and evaluation of hazards covers all phases of operations including manufacturing, storage, product transfer, waste disposal and control of emissions to the environment;
- Hazard Identification extends to evaluating potential risk to the site posed by events originating outside the site including risks from abnormal meteorological conditions such as flooding and power failure;
- All recommendations made as a result of the hazard identification process are implemented.

#### **1.3 Operational Control**

The company (Lagan Materials Ltd.) will ensure that:



	<b>Document No. DPM-001</b>	<b>Effective Date</b>	<b>Amendment</b>
	<b>Depot Procedures Manual</b>	<b>28.09.2021</b>	<b>1</b>

- The risk of incidents with the potential for accidental damage to people or the environment is minimised by exercising control over all aspects of the company's operations;
- Operating Procedures are written and implemented for all phases of site operations;
- Operating Procedures are reviewed on a regular basis and amended when and where necessary.

#### 1.4 Planning for Emergencies

The company (Lagan Materials Ltd.) will ensure that:

- Operations are carried out in a manner, which serves to protect the community and the company employees from injury or illness and which avoids damage to the environment;
- An on-site emergency plan is prepared and maintained, which details the required response of the company personnel in the event of a major accident;
- The emergency plan includes arrangements for contacting the emergency services. The emergency services will in turn contact those people in the surrounding environment that might be affected;
- The relevant personnel are trained in their emergency response duties under the on-site plan, together with first aid and fire-fighting training;
- The emergency plan / emergency evacuation plan is tested periodically and reviewed to ensure their continued effectiveness;
- The company co-operates fully with the local Fire Authority and other emergency services for emergency planning.

## 2. Monitoring and Reporting

### 2.1 Monitoring Performance

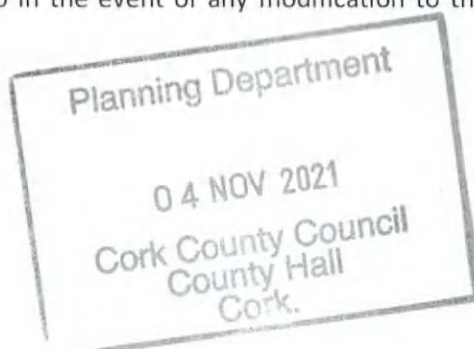
The company (Lagan Materials Ltd.) will ensure that:

- Systems are developed, implemented and maintained which actively monitor adherence to all safety procedures adopted in order to minimise the risk from major accident hazards. Active monitoring includes inspections and preventative maintenance of safety critical plant, equipment and instrumentation as well as checking compliance with training, instructions and safe working practices;
- All accidents and incidents are systematically reported and investigated by the Company's investigation team. Investigations examine both the immediate cause of an incident and any underlying causes. All accidents and incidents are discussed at Safety Committee Meetings;
- Corrective and preventative actions determined by such investigations are recorded in the Standard Operating Procedure DP018 and implemented accordingly.

### 2.2 Audit and Review

The company (Lagan Materials Ltd.) will ensure that:

- The Health & Safety and Environmental Management System is systematically reviewed for effectiveness and suitability;
- Regular internal audits are conducted;
- Procedures are developed, adopted and maintained to audit the achievement all Health & Safety and Environmental objectives;
- All relevant procedures are reviewed following all accidents or incidents with the potential to escalate into a major accident;
- The APP is reviewed regularly and also in the event of any modification to the site which could have significant impact on major accident hazards.







Document No. PP-001

Effective Date

Amendment

Planning Permits, Registrations,  
Licences and Authorisations

28.09.2021

1




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**3. Current Planning Permits, Registrations,  
Licences and Authorisations**



	Document No. PP-001	Effective Date	Amendment
	Planning Permits, Registrations, Licences and Authorisations	28.09.2021	1

## Current Planning Permits, Registrations, Licences and Authorisations

The list of current Planning Permits, Registrations, Licences and Authorisations for the Rossmore Depot is presented in Table 1. All permissions are appended to this section.

**Table 1** Planning Permits, Registrations, Licences and Authorisations

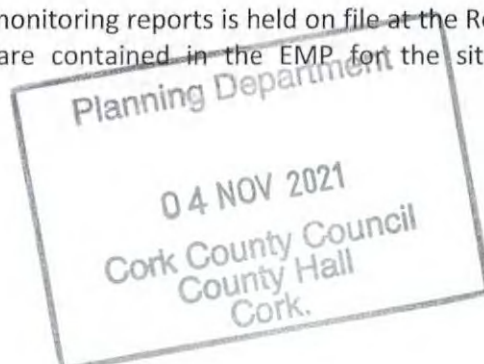
Permission	Copy Held on File	Status
Planning Permission ABP Ref. No. 04.QD.0010 (Quarry)	Yes	Active
Planning Permission Planning Reg. No. 18/06874 (Asphalt Plant)	Yes	Active
Planning Permission Planning Reg. No. 20/04124 (Readymix & Lime Plant)	Yes	Active
Trade Effluent Discharge Licence Licence Reg. Ref. No. WP(W)08/18(R)	Yes	Active
Air Emissions Licence Licence Reg. Ref. No. AP1.03	Yes	Active

The list of environmental monitoring currently completed at the Rossmore site to comply with the requirements of the current Planning Permits, Registrations, Licences and Authorisations for the Rossmore Depot is presented in Table 2. The environmental monitoring location maps are appended to this section.

**Table 2** Environmental Monitoring Details for the Rossmore site

Parameter	Frequency	Monitoring Locations ID	Monitoring Location Map
Surface Water	Quarterly	SW Discharge SW01	Yes
Groundwater	Biannually	MW1, MW3, MW4, BH2	Yes
Dust	Quarterly	D1, D2, D3, D4, D5	Yes
Noise	Biannually	N1, N2, N3, N4, N5, N6	Yes
Stack Emissions	Quarterly	Main Stack	Yes
Groundwater levels	Quarterly	BHA, BHC, MW1, MW3, MW4, MW5a, MW5b, BH2, BH17, BH18, TW1, TW2, TW3	Yes
Blast Monitoring	For each blast	Various residences	Yes

A hardcopy version of all environmental monitoring reports is held on file at the Rossmore site for a minimum period of seven years. These reports are contained in the EMP for the site in the folder(s) entitled Environmental Monitoring Reports.





**Rossmore Surface Water Monitoring Location: SW discharge**



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Rossmore Groundwater Monitoring Locations: MW1, MW3, MW4, BH2



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Rossmore Dust Monitoring Locations: D1, D2, D3, D4, D5



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Rossmore Noise Monitoring Locations: N1, N2, N3, N4, N5, N6



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**Rossmore Stack Emissions Monitoring Location: Main Stack**



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Rossmore Groundwater Levels Monitoring Locations: BHA, BHC, MW1, MW3, MW4, MW5a, MW5b, BH2, BH17, BH18, TW1, TW2, TW3



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Rossmore Blast Monitoring Locations: R1 Buckley Residence; R2 Sheehan Residence; R3 O'Donovan Residence; R4 Carney Residence; R5 Carney Residence; R6 Aylward Residence.



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**4. AUDIT AND INSPECTION SHEETS**





Audit & Inspection Sheets

Effective Date

Amendment

28.09.2021

1

**AMENDMENT RECORD**

Sheet ID No.	Audit and Inspection Sheet Title	Amendment No.	Date of Issue	Review Date
AIS001	Daily Environmental Site Inspection Check Sheet	1	01.02.2017	28.09.2021
AIS002	Weekly Environmental Site Inspection Check Sheet	1	01.02.2017	28.09.2021
AIS003	Odour Assessment Check Sheet	1	01.02.2017	28.09.2021
AIS004	Water Spraying Schedule	1	01.02.2017	28.09.2021
AIS005	Waste Record Sheet	1	01.02.2017	28.09.2021
AIS006	Incident Notification Form	1	01.02.2017	28.09.2021
AIS007	Environmental Complaints Register	1	01.02.2017	28.09.2021
AIS008	Environmental Compliant Investigation Form	1	01.02.2017	28.09.2021
AIS009	Environmental Training Record	1	01.02.2017	28.09.2021
AIS010	Incoming Post Register	1	01.02.2017	28.09.2021
AIS011	Outgoing Post Register	1	01.02.2017	28.09.2021
AIS012	Corrective & Preventive Actions	1	01.02.2017	28.09.2021
AIS013	Environmental Management Review Form	1	01.02.2017	28.09.2021

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AIS001 Daily Environmental Site Inspection Check Sheet

Week Commencing \_\_\_\_\_

Depot \_\_\_\_\_

DAILY SITE INSPECTION

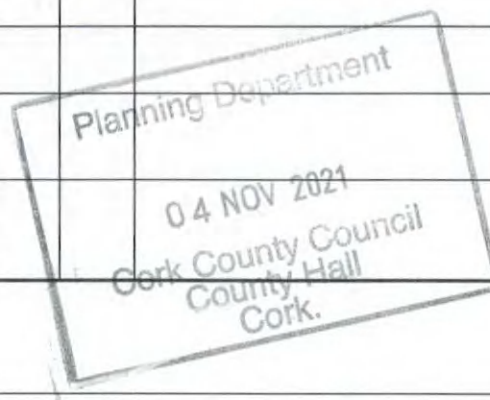
DAY	TIME	AIR QUALITY - VISUAL ASSESSMENTS										HOUSEKEEPING				CORRECTIVE ACTION	SIGNATURE	
		WEATHER				Stack Ringelmann Record	SITE LOCATIONS					FUEL STORAGE		WASTE				
		General	Temp	Wind Speed	Wind Direction		Stockpile	Plant & loading areas	Haul Roads & Entrance	Conveyor Drums	Site Boundary	Bunding	Spillages	Adequate Storage Facilities	Disposal Documents on file			
Mo.																		
	pm																	
Tue.	am																	
	pm																	
Wed.	am																	
	pm																	
Thur.	am																	
	pm																	
Fri.	am																	
	pm																	
Sat.	am																	
	pm																	

Additional information

Notes	General	Sunny / Overcast / Fog / Drizzle / Rain / Heavy Rain / Snow / Ice
	Temperature	Freezing / Very cold / Cold / Cool / Warm / Hot
	Wind speed	Calm / Gentle Breeze / Breeze / Strong Breeze
	Wind direction	North / North East / East / Southeast / South / Southwest / West / Northwest
	Visual assessment	None / Insignificant / Visible (No offsite impact) / Obvious (Offsite)
	Corrective action	Brief description of problem and corrective action taken

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TASK DESCRIPTION				DETAILS & COMMENTS		CPA REI
<b>1 Surface Water Discharges</b>						
Look for visual contamination at the following locations. If Yes initiate corrective action.				YES	NO	CPA REF
<b>(i) Discharge from the settlement lagoon.</b>						
Was a sample taken?						
Was the Technical Director called?						
<b>(ii) Discharge Point into receiving surface waters</b>						
Are any abnormalities observable? (colour, oil, flow)						
Was a sample taken or Technical Director called?						
<b>2 Dust Management System</b>						
Check the effectiveness of the dust suppression system at the following locations. If dust levels are high initiate corrective action.				YES	NO	CPA REF
<b>(i) Material Stockpiles, storage bays and bins</b>						
<b>(ii) Exposed surfaces</b>						
<b>(iii) Haul roads</b>						
<b>(iv) Wheel washes</b>						
<b>(v) Site entrance roadway</b>						
<b>(vi) Neighbouring residences</b>						
<b>3 Dust gauges</b>						
Check the dust gauges for the following:						
GAUGE	GAUGES CHECKED	ARE THEY STILL IN POSITION	IS THE WATER LEVEL OK	PHOTO	OTHER COMMENTS	CPA REF
D1						
D2						
D3						
D4						
D5						
D6						
<b>4 Storage area bunds</b>						
Check bunds around the fuel, oil and waste and chemicals storage areas for build up of water (above 10% line) . Are there signs of bund water contamination? If yes:				YES	NO	CPA REF
<b>(i) is there a leak or spill from a tank or container?</b>						
<b>(ii) arrange a test of the COD of the bund water.</b>						
If there is a leak issue a corrective action and repair the container immediately						
If the water level is more than 50% of the bund level and is uncontaminated pump to the settlement pond						
If the water is contaminated arrange for storage and disposal as per hazardous wastes as specified in procedure DP003.						





AIS002 Weekly Environmental Site Inspection Check Sheet

TASK DESCRIPTION		DETAILS & COMMENTS			CPA REF
5	<b>Site housekeeping</b>				
Is there litter around the site? If yes initiate corrective action.		YES	NO	DETAILS	CPA REF
6	<b>Waste Storage area</b>				
Is the area generally tidy and waste stored in appropriate containers? If no initiate corrective action.		YES	NO	DETAILS	CPA REF
Is there any evidence of contamination of soil? If yes initiate corrective action.					
7	<b>Hazardous Waste Storage area</b>				
(i) Is the area generally tidy and waste stored in appropriate containers? If no initiate corrective action.		YES	NO	DETAILS	CPA REF
(ii) Are all labels clearly visible and readable? If no initiate corrective action.					
(iii) Is there any evidence of contamination of soil? If yes initiate corrective action.					
8	<b>Surface Water Management System</b>				
Inspect the following locations and check for visual contamination. If there is contamination initiate corrective action:		YES	NO	DETAILS	CPA REF
Settlement Lagoon					
Drainage Ditches					
Site stream upstream of site					
Site stream downstream of site					
Inspect the drainage ditches for signs of erosion. If there is erosion initiate corrective action such as lining the channel or altering the gradient					
9	<b>Vehicles and plant</b>				
Check vehicles to ensure that they are not excessively noisy.		YES	NO	DETAILS	CPA REF
Check plant and machinery to ensure that it is not excessively noisy.					
10	<b>Stockpiles and temporary fill areas</b>				
Is there potential for erosion to nearby watercourses? If yes initiate corrective action to cover the area with polythene		YES	NO	DETAILS	CPA REF
11.	<b>Oil Interceptors</b>				
Are there any signs of contamination from the outflow of the interceptors?		YES	NO	DETAILS	CPA REF

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**Complaints**

Were any complaints made.    **Yes / No**

If Yes please complete the Environmental Complaints Register and the Environmental Complaints Investigation Form.

Type of complaint eg Noise, dust vibration, surface water, water supply traffic nuisance

**Other relevant information**

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Contact the Technical Manager in the event of non-compliance/site observations, problems etc.

Inspection Completed By \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_





Odour Assessment Log sheet

Date \_\_\_\_\_

Location	Time	Weather		Wind		Visual Assessment	Odour Identified		Description of Odour Identified (e.g. character, intensity)
		General	Temp	Speed	Direction		YES	NO	

Notes *	Location	Upwind or downwind of plant (state whether north, south, east or west of plant)	Additional information
	General	Sunny / Overcast / Fog / Drizzle / Rain / Heavy Rain / Snow / Ice	
	Temperature	Freezing / Very cold / Cold / Cool / Warm / Hot	
	Wind speed	Calm / Gentle Breeze / Breeze / Strong Breeze	
	Wind direction	North / North East / East / Southeast / South / Southwest / West / Northwest	
	Visual assessment	None / Insignificant / Visible (No offsite Impact) / Obvious (Offsite)	
	Corrective action	Brief description of problem and corrective action taken	

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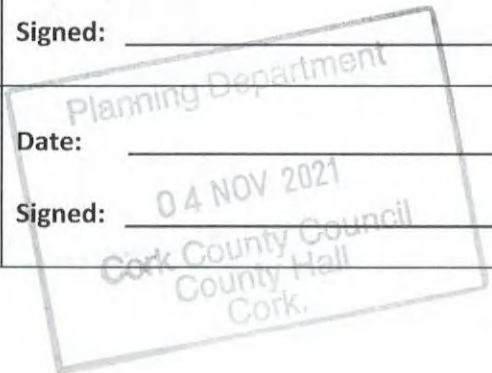


AIS005 Waste Record Sheet

DATE OF DISPATCH	CONTRACTOR DETAILS	DESCRIPTION OF WASTE	EWC Code	HAZARDOUS / NON-HAZARD	METHOD OF DISPOSAL	QUANTITY
					Recycle, Landfill etc	

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Notification reference	Incident (Tick one or more)				Source of information (tick one or more)	
Issued by	Traffic		Water supply		Monitoring	
	Noise		Surface water		Complaint	
	Vibration		Odour		Site Inspection	
Date issued	Dust		other		Other	
Date of incident	Time of incident					
Incident details (include details and circumstances giving rise to)						
Evaluation of environmental pollution (if any) caused by incident						
Recommended corrective and/or preventive action					Sent to: _____	
					Date: _____	
Action Taken:					Date for reassessment:	
					_____	
Date: _____		Signed: _____			Done? YES/NO	
Follow up action (if any recommended):						
Reported to Technical Manager YES / NO			Date: _____			
			Signed: _____			
Action Completed?			Date: _____			
YES / NO			Signed: _____			





AIS007 Environmental Complaints Register

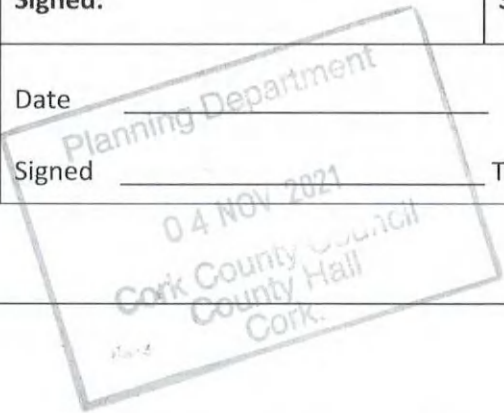
Depot	
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Date	Time	Complaint from	Contact details	Nature of complaint	Complaint taken by	Complaint notified to	Date notified	Follow up

01.02.2017

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<b>Complaint reference number</b>		<b>Received by</b>	
<b>Date Received</b>		<b>Time received</b>	
<b>Complainant's details</b>			
<b>Name:</b>			
<b>Address:</b>			
<b>Contact numbers:</b>			
<b>Complaint Type</b>	<b>Noise</b>	<b>Traffic</b>	<b>Water supply</b>
	<b>Vibration</b>	<b>Dust</b>	<b>Surface water</b>
<b>Odour</b>		<b>Other</b>	
<b>Details &amp; location of complaint</b> e.g. dust settling on property under southerly wind			
<b>Investigation:</b> e.g. weather conditions at time, site activities			
<b>Monitoring results (where available):</b>			
<b>Actions taken:</b>		Is there a non-compliance requiring corrective or preventative action?  YES/NO  If Yes please fill out Corrective and Preventive Action Record	
<b>Recommendation for further monitoring:</b>			
<b>Date outcome communicated to:</b>			
<b>Complainant</b>	<b>Relevant Authority</b>	<b>Technical Manager</b>	
Date _____	Date _____	Date: _____	
Signed: _____	Signed: _____	Signed: _____	
<b>Completed? Yes / No</b>	Date _____ Signed _____	Technical Manager _____	





<b>TRAINER:</b>	(Print Name)	(Signature)
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TRAINEE (Print)	TRAINEE (Signature)	Date

SUBJECT:	DOCUMENT REFERENCE:	PLEASE TICK AS APPROPRIATE:
Air Quality & Air Emissions Management	DP001	
Energy Management	DP002	
Waste Management	DP003	
Emergency Preparedness & Response	DP004	
Legislation Management	DP005	
Fuel, oil, Bitumen & Chemical Storage	DP006	
Oil Interceptor Management	DP007	
Water Management	DP008	
Ecological Management	DP009	
Noise & Vibration Management	DP010	
Landscape & Visual Impact	DP011	
Traffic Management	DP012	
Archaeology Impact Management	DP013	
End-of-Life Plant Management	DP014	
Site Security	DP015	
Contractor Management	DP016	
Communications, Incidents & Complaints	DP017	
Corrective & Preventive Actions	DP018	
Site Inspection Checklists	DP019	

\_\_\_\_\_  
Trainer

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\_\_\_\_\_  
Date







CPA reference number	Non-conformance (Tick one or more)			Source of information (tick one or more)	
Issued by	Traffic		Water supply	Monitoring	
	Noise		Surface water	Complaint	
	Vibration		Odour	Site Inspection	
Date issued	Dust		other	Other	
Non-compliance details					
Recommended corrective and/or preventive action				Sent to: _____	
				Date: _____	
Action Taken:				Date for reassessment:	
				_____	
Date: _____		Signed: _____		Done? YES/NO	
Follow up action (if any recommended):					
<div style="text-align: center;">  </div>					
Reported to Technical Manager YES / NO			Date: _____		
			Signed: _____		
Action Completed?			Date: _____		
YES / NO			Signed: _____		



**Annual Environmental Management Review**

Site Name:

Date of Review:

Attendees:

Topics to be covered:

1. Review of objectives and targets for previous year;
2. Objectives and targets and risks & opportunities for coming year;  
Review of internal and external audits completed for the site;
4. Review of non-compliances issued in the previous year;
5. Review of legal compliance for the previous year;
6. Review of communication (Internal and External) for the previous year;
7. Review of legislation changes, compliance obligations and other legal requirements that impact the EMS;
8. Review of minutes from previous years meeting;
9. Follow up actions from previous management reviews;
7. Review of performance of contractors and suppliers;  
improvements to the EMS;
9. Resource needs;
10. Review of environmental aspects;





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**5. ENVIRONMENTAL TRAINING FOR CONTRACTORS**





	<b>Document No. LM001</b>	<b>Effective Date</b>	<b>Amendment</b>
		<b>28.09.2021</b>	

## Environmental Training For Contractors

### 1. Introduction

This document sets out the environmental rules that must be followed by all contractors carrying out works of any nature at the Rossmore, Co. Cork site. This document has been designed as an environmental training document and all contractors entering the site are required to read this document in addition to Depot Procedure DP016 Contractor Management. Once this document and Depot Procedure DP016 have been read by each contractor, Sheet AIS009 Environmental Training Record should be signed by each contractor who completed the training.

### 2. Environmental Management at the Site

The site is accredited to the Environmental Standard ISO 14001 and as such, all occupants of the site are required to fully comply with the requirements of meeting this standard. This Standard ensures that all activities carried out at the site do not have an adverse impact on the receiving environment. The following sections set out the rules and guidelines that must be adhered to by all contractors while occupying the site.

#### 2.1 Prior to Works Commencing at the Site

Prior to any works commencing at the site a point of contact shall be established with site management and the following requirements must be demonstrated by the contractor to the satisfaction of the Depot Manager.

- All plant and equipment brought onto site by the contractor must be fit for purpose and meet the relevant legislative standards.
- All contractors shall identify how their activities could impact on the environment and detail their works to be undertaken and the associated precautions to be taken before permission for work is granted;
- The contractor shall notify Site Management of any hazardous substances they will be using on site and how these will be controlled.

#### 2.2 Movement on the Site

Contractors shall sign-in at Reception upon arrival to the site and sign-out upon departure of the site. This must be done each time upon entering and departing the site regardless of the number of times it occurs in any one working day. Contractors shall only work on the site during the permitted hours as per the Planning Requirements and any works outside of these hours must be arranged and agreed with site management.

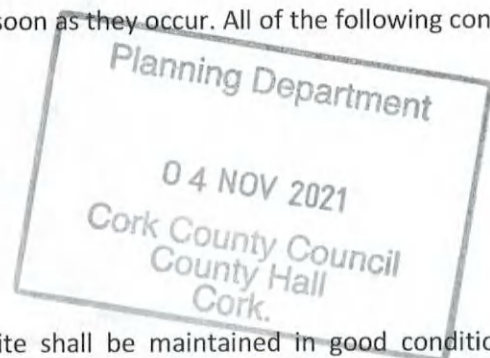
#### 2.3 Incidents and Injuries

All incidents and injuries must be reported to the Site Contact as soon as they occur. All of the following constitute an incident and must be reported:

- Spills and Leaks
- Fire
- Contamination of ground, surface water or groundwater
- Flooding
- Power Failure

#### 2.4 Fuels, Oils and Chemicals

- All items of plant and containment vessels used on site shall be maintained in good condition and regularly inspected for leaks.
- All fuels, oils and chemicals must be stored within a bunded area.
- Any fuel storage brought onto site must comply with the oil storage regulations.
- Refuelling should only be carried out in designated areas.
- All spillages must be cleaned up immediately and reported to site management for correct disposal. In the event of a spillage with the potential to result in environmental pollution, site management should be contacted immediately. Site management will implement the emergency procedure if deemed necessary.







# 3. Alternatives



CONTENTS

INTRODUCTION ..... 2

DO NOTHING ALTERNATIVE ..... 2

ALTERNATIVE SOURCES OF AGGREGATES ..... 3

ALTERNATIVE LOCATIONS ..... 3

ALTERNATIVE DESIGNS / LAYOUTS ..... 4

ALTERNATIVE PROCESSES ..... 5

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## INTRODUCTION

- 3.1 This chapter of the EIAR provides a consideration of Alternatives in terms of alternative sources of aggregates; alternative locations; alternative designs & layouts; and alternative processes.
- 3.2 The proposed development being applied for under this current planning application is shown on EIAR Figure 2-1 and is similar to that previously granted under An Bord Pleanála reference number 04.QD.0010 and will consist of:
- Deepening of the existing quarry extraction area by 2 no. 15 metre benches from -20m OD to -50 m OD, along with minor amendments to the permitted quarry layout (Plan File ref. no's: S/02/5476 & ABP Ref. PL04.203762 and ABP Ref. PL04.QD.0010) all within the existing permitted quarry footprint and the continued use of the existing water management system (settlement pond / infiltration pond system permitted under PL04.QD.0010) for the life of the proposed development, within an application area of c. 12.6 hectares – refer to EIAR Figures 1.1 and 1.2;
  - An extraction capacity of up to 375,000 tonnes per annum is sought to provide the applicant with the ability to respond to demand for aggregates for large infrastructure projects in the Region;
  - Permission is sought for twenty years plus two years for final restoration (total duration 22 years).
- 3.3 The existing permitted quarry area is located in an area favourable to extraction activities, due to, *inter alia*:
- Established long history of extraction at this location;
  - Proven high quality limestone reserves – refer to EIAR Chapter 6;
  - Located within market distance to Cork City, and a number of large infrastructure projects;
  - Located within close proximity to the regional and national roads network – refer to EIAR Chapter 14;
  - Best practice industry standard extraction and processing methods are used;
  - Low development costs because infrastructure is already in place at the site and the application is for the further development of a long-established quarry.

## DO NOTHING ALTERNATIVE

- 3.4 If no further works within the planning application area were carried out, the existing site would be restored to natural habitat after-uses as per the previously permitted restoration proposals.



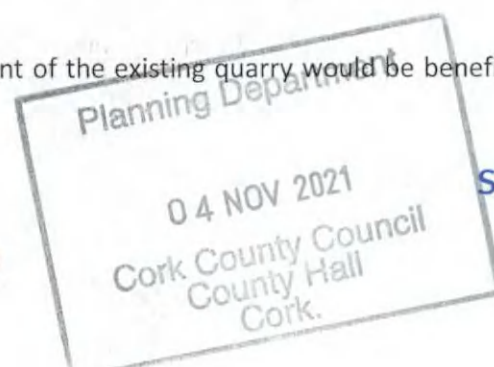


## ALTERNATIVE SOURCES OF AGGREGATES

- 3.5 In the medium term there are no real alternatives to the current land-based sources of construction aggregates.
- 3.6 Until End of Waste criteria in respect of Construction & Demolition (C & D) materials is agreed, these recycled materials cannot be relied upon and for the foreseeable future there are no real alternatives to primary land-won aggregates.
- 3.7 Notwithstanding the above, the volume of C&D waste suitable for recycling into secondary aggregates would be considered very low in comparison to the overall demand for aggregates. The demographic spread of the population results in only the large urban centres potentially being capable of generating sufficient volumes of construction and demolition (C&D) waste to justify a commercial operation producing secondary aggregates going forward.
- 3.8 In the longer term (>25 years), there may be some scope for extraction of sand and gravel from marine sources. However, the regulatory system does not yet exist to allow for this.
- 3.9 In the absence of significant volumes of aggregates from recycled / secondary and marine sources, land-based deposits (such as the proven reserves at Rossmore) will continue to be the main source of construction aggregates in Ireland, including Cork and the surrounding.

## ALTERNATIVE LOCATIONS

- 3.10 The current planning application is for deepening of the existing permitted quarry at Rossmore, Carrigtwohill, Co. Cork.
- 3.11 The alternatives available to the Applicant relate to:
- Further development (into lands that do not currently have the benefit of planning permission for quarrying) and final restoration of the existing established quarry;
  - or
  - Development of a new replacement 'greenfield' quarry in County Cork to serve the established clients and markets in this region.
- 3.12 At the current time, there is no suitable alternative replacement quarry location available to the applicant in County Cork. It is generally accepted that the overall timeframe for development of a 'greenfield' quarry site (from initial site selection, land acquisition, preparation of a planning application and accompanying EIAR, through planning process and site development to extraction of aggregates) takes between 5 and 10 years.
- 3.13 Notwithstanding the above, the further development of the existing quarry would be beneficial in planning terms by eliminating the need for:





- Extracting additional materials from other quarries within the county, should the applicant be unable to develop a new 'greenfield' site in the event that the existing quarry ceases operation. This would result in faster depletion of aggregate resources at these other quarry locations and potentially result in future intensification of those operations;
  - Development of a 'greenfield' site at some other location within the county where there is little or no previous extractive industry landuse;
  - Haulage of materials by road from other quarries within, and outside the county, with potentially longer haulage distances and increased traffic levels on the wider road network.
- 3.14 The further development of the existing limestone quarry at Rossmore will assist in continuing to provide extraction from a proven aggregate resource within an established operation, with no significant increase in environmental emissions.
- 3.15 This development is not like a factory for example that can be located at many locations; this is a resource tied development. Aggregates can only be worked where they exist and where the environmental effects of working such resources can be managed to an acceptable level.
- 3.16 The extent of the limestone deposit at Rossmore Quarry has long been established. The further development of the quarry will work the remainder of this identified reserves located within the existing permitted quarry site, which has a proven track record of environmental / planning compliance.
- 3.17 Although aggregates can only be worked where they exist, some will argue that the value-added facilities such as the asphalt plants, readymix concrete plants, ground limestone processing plants could be located anywhere. It is considered best planning practice to co-locate these facilities as close to, but preferably at the major raw materials source i.e. within quarry developments. This conforms to the principles of sustainable development as it minimises energy consumption in the form of haulage requirements, excessive handling and centralises waste collection. The requirement for duplicated facilities is also removed, such as multiple offices, weighbridges etc.
- 3.18 On the basis of the above, it is considered that the further development of the existing established quarry, subject to continued implementation of best environmental management practice and compliance with appropriate planning controls (i.e. planning conditions and recommended emission limit values for the sector) is preferable in an overall planning context, compared to the development of a new replacement 'greenfield' site at some alternative location in the Cork region.

### ALTERNATIVE DESIGNS / LAYOUTS

- 3.19 Alternative designs, including alternative layouts within the site were considered. Minor changes to the previously permitted quarry extraction area have been proposed as part of this EIAR. Quarry deepening will be carried out within the previously permitted area only, with minor amendments to the permitted quarry design, and this is considered to best minimise the potential impacts on the environment from noise, dust, visual impacts.

## Extraction Area

- 3.20 Lands to the North and East adjoining the quarry extraction area are owned by the applicant – refer to Figure 1.2, and these lands may be suitable for rock extraction at a future date. These adjoining lands are currently in agricultural use and have not previously been used, or proposed to be used, for quarry development.
- 3.21 The lands to the North of the existing quarry extraction area are currently used as an overburden storage area, or in agricultural use. Any extension of the quarry extraction area into these lands would bring the extraction area closer to neighbouring dwellings and for this reason lateral extension of the quarry into these lands was discounted.
- 3.22 In relation to the lands to the East of the landholding, that lie the far side of the access road to the existing quarry, extensive site investigations will be required to prove the limestone reserves within these lands. Any future planning application to allow extraction within these lands will require an Environmental Impact Assessment to be carried out. This process (site investigations and EIAR) will take a minimum of 2 – 3 years to complete.
- 3.23 The most immediate available and suitable stone reserves available for extraction at the quarry are the proven reserves contained within the footprint of the existing quarry extraction area, below the current quarry floor level – refer to Chapter 6: Soils and Geology. These reserves are currently permitted to an extraction level of -20m OD and have been subject to recent extensive environmental assessments, hydrogeological assessments and site investigations.
- 3.24 Extraction of the stone reserves from below the quarry floor will not result in any additional land-take and will not result in any significant environmental impact. This EIAR demonstrates that the proposed deepening of the existing quarry development can be carried out without any significant impact on the surrounding environment, and within the recommended environmental emission threshold values for these types of development.

## ALTERNATIVE PROCESSES

- 3.25 Lagan is a company with expertise and experience in the field of quarrying, aggregates production, concrete manufacturing, asphalt manufacturing and road making. This planning application is for deepening of the existing permitted quarry. Lagan use industry standard and best practice blasting techniques to fragment the limestone. This fragmented limestone is processed using mobile crushing & screening plant located within the quarry extraction area, in line with best practice for the sector. Alternative processes are not considered relevant in this instance.

