

PROJECT DESCRIPTION
WASTE RECYCLING FACILITY
BALLYMOUNT ROAD
WALKINSTOWN
DUBLIN 12

Prepared For: -

Irish Packaging Recycling Ltd.,
Ballymount Road,
Walinstown,
Dublin 12

Prepared By: -

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

12th February 2009

TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION.....	1
1.1 IPR.....	1
2. FACILITY OVERVIEW.....	2
2.1 WASTE ACTIVITIES	2
2.2 WASTE MANAGEMENT POLICY	2
2.2.1 <i>Dublin Region Waste Management Plan</i>	3
3. SITE DESCRIPTION	5
3.1 SITE LOCATION	5
3.2 SITE HISTORY.....	5
3.3 GEOLOGY AND HYDROGEOLOGY	5
3.3.1 <i>Geology</i>	5
3.3.2 <i>Hydrogeology</i>	7
3.4 SURFACE WATERS.....	7
3.5 SURROUNDING LAND USE.....	7
4. FACILITY DESIGN.....	8
4.1 SITE LAYOUT	8
4.2 SITE SERVICES.....	8
4.3 SITE ACCESS	8
4.4 BUILDINGS & HARDSTANDING.....	8
4.5 WASTE QUARANTINE AREA	9
4.6 SURFACE WATER	9
4.7 OIL STORAGE	9
4.8 SECURITY	9
5. OPERATIONS	10
5.1 OPERATIONAL HOURS	10
5.2 STAFF.....	10
5.3 FACILITY ACCESS.....	10
5.4 WASTE TYPES AND VOLUMES	10
5.5 WASTE ACCEPTANCE PROCEDURES	11
5.6 WASTE HANDLING	12
5.6.1 <i>Dry Recyclables</i>	12
5.6.2 <i>Paper & Cardboard</i>	12
5.7 PLANT & MACHINERY.....	13
5.8 WASTES GENERATED	13
5.8.1 <i>Waste Types & Volumes</i>	13
5.8.2 <i>Waste Disposal / Treatment</i>	14
5.9 SURFACE WATER MANAGEMENT	14
5.10 WASTEWATER.....	14
5.11 ENVIRONMENTAL NUISANCE.....	14
5.12 SAFETY AND HAZARD CONTROL	14

5.13	ANNUAL NATURAL RESOURCE CONSUMPTION	15
5.14	CONTINGENCY ARRANGEMENTS	15
6.	EMISSION CONTROL & MITIGATION.....	16
6.1	SURFACE WATER	16
6.1.1	<i>Assessment</i>	16
6.1.2	<i>Mitigation Measures</i>	16
6.2	SOIL AND GROUNDWATER.....	17
6.2.1	<i>Assessment</i>	17
6.3	NOISE.....	17
6.3.1	<i>Impact Assessment</i>	17
6.3.2	<i>Mitigation Measures</i>	17
6.4	DUST & VEHICLE EXHAUST	17
6.4.1	<i>Assessment</i>	17
6.4.2	<i>Control Measures</i>	18
7.	ENVIRONMENTAL MONITORING.....	19
7.1.1	<i>Dust</i>	19
7.1.2	<i>Noise</i>	19
7.1.3	<i>Surface Water</i>	19

For inspection purposes only.
 Consent of copyright owner required for any other use.

LIST OF FIGURES DRAWINGS & APPENDICES

<u>FIGURES</u>	<u>TITLE</u>	<u>PAGE</u>
Figure 3.1	Site Location 1:50,000	9

<u>DRAWINGS</u>	<u>TITLE</u>	<u>PAGE</u>
-----------------	--------------	-------------

Drawing No. 1 – SITE LOCATION 1:500 AND SURROUNDING LANDUSE

Drawing No. 2 – SITE PLAN & DRAINAGE 1:1000

Drawing No. 3 – PROPOSED MONITORING LOCATIONS

APPENDICES

APPENDIX 1	-	Waste Permit
APPENDIX 2	-	Geology/Hydrogeology
APPENDIX 3	-	Aerial Photograph
APPENDIX 4	-	Emergency Response Plan

1. INTRODUCTION

This document describes the Irish Paper Recycling Ltd. (IPR) waste recovery facility at Ballymount, Walkinstown, Dublin 12. The facility operates under a Waste Permit (Ref WPR 021/2) issued by South Dublin County Council, a copy of which is included in Appendix 1. Under the Waste Management (Facility Permit) Regulations S.I. No 821 of 2007, as amended, the facility now requires a Waste Licence from the Environmental Protection Agency (Agency), as the total annual waste intake is greater than 50,000 tonnes.

This document was prepared as part of the Waste Licence application. It describes the site setting; facility design; types and volumes of materials accepted, and handling procedures. It presents information on the emissions, potential environmental impacts associated with the facility and details of the proposed mitigation measures to either eliminate, or minimise those impacts.

1.1 IPR

IPR trades as PANDA Waste Services (PANDA). PANDA is one of the largest waste management companies operating in the Greater Dublin and surrounding regions. PANDA has focused on recovery/reuse/recycling rather than disposal and has invested significant financial resources in developing and continually expanding its capacity in these areas.

PANDA has established a research and development department in order to ensure that the high level expertise it has achieved in waste management techniques is maintained and to identify and avail of opportunities to enhance its waste recycling capacity. In 2007 PANDA won the REPAK award for large operator of the year.

2. FACILITY OVERVIEW

2.1 Waste Activities

The Ballymount facility only accepts and processes paper and cardboard from commercial enterprises and source segregated and mixed dry recyclables from household and commercial and industrial (C&I) activities.

The paper and cardboard comprise specific grades of source segregated and mixed paper. The dry recyclables primarily comprise source segregated and mixed household and C&I waste (paper, plastic, tetrapak, glass, cardboard waste, electrical and electronic equipment). The facility does not accept non-recyclable materials. In addition IRP provides a confidential document shredding service.

The bulk of paper/cardboard, which comprises the majority of the recovered materials, are sent to paper mills in the UK, Europe and Asia for use in product manufacture. All the other recyclable materials are sent to appropriately authorised recovery/recycling facilities both in Ireland and overseas. The non-recyclable contaminants removed from the incoming waste are sent to appropriately authorised disposal facilities.

The facility has the capacity to process up to 150,000 tonnes of recyclable/recoverable materials annually. However the actual volumes processed in any one year depend on market conditions.

2.2 Waste Management Policy

National waste management policy is based on the Department of the Environment, Heritage and Local Government's policy statement of September 1998, "*Changing Our Ways*". This statement firmly based national policy on the European Union Waste Management Hierarchy, which in descending order of preference is: -

Prevention
Minimisation
Reuse
Recycling
Energy Recovery
Disposal

National waste policy is based on, and supported by, EU legislation that requires the reduction of biodegradable waste disposed to landfill. EU Landfill Directive 99/31/EC sets out the following reduction targets, which are based on 1995 figures:-

- Minimum 25% reduction by 2006;
- Minimum 50% reduction by 2009;
- Minimum 65% reduction by 2016.

“*Changing our Ways*” recognised that the achievement of these targets required the development of alternative waste recovery facilities and significant expansion of recycling infrastructure. It emphasised the need for the utilisation of the potential of the private sector to deliver services.

The 2002 policy statement ‘*Preventing and Recycling Waste - Delivering Change*’ identified initiatives to achieve progress at the top of the Waste Hierarchy in terms of preventing waste arising and increasing recycling rates.

In ‘*Waste Management – Taking Stock and Moving Forward*’ 2004, while the significant improvement in recycling rates achieved since 1998 are recognised, the need for further expansion is emphasised. Ireland’s national policy approach remains ‘grounded in the concept of integrated waste management, based on the internationally recognised waste hierarchy, designed to achieve, by 2013, the ambitious targets set out in *Changing Our Ways*’.

2.2.1 Dublin Region Waste Management Plan

The Waste Management Plan 2005 - 2010 recognises that source separation of household, commercial and industrial waste is crucial to the successful development of sustainable markets for recyclable materials. The Plan recommends the introduction of source segregation of household waste and PANDA has already successfully introduced such schemes in the Region.

The Plan identifies that there are still significant deficits in the infrastructure to manage wastes generated in the Dublin Region and this is increasing costs and making it more difficult to achieve recycling targets. The Plan emphasises maximising recycling and reuse for all waste streams and sets the following recycling targets to be achieved by 2013 (Section 17.7).

Source	Recycling
Household	60%
Commercial/Industrial	41%
Total	59%

These regional recycling targets, if they are to be achieved, require a progressive expansion in recycling capacity in the Dublin Region up to 2013. The Plan recognises that, to meet these targets, it is necessary to sustain and expand on the existing recycling infrastructure, like the Ballymount facility.

*For inspection purposes only.
Consent of copyright owner required for any other use.*

3. SITE DESCRIPTION

3.1 Site Location

The site is located on the Ballymount Road Lower, Walkinstown, as shown on Figure 3.1. It is in an area that has been extensively developed for industrial and commercial purposes.

3.2 Site History

The site and surrounding area was developed for industrial/commercial use from the 1960's onwards. The original operators, Smurfit Kappa Recycling Ireland, began paper recovery operations at the facility in 1984. SDCC issued the original Waste Permit in 2000. PANDA acquired the business in 2007 and SDCC issued the current Permit in September 2007.

3.3 Geology and Hydrogeology

The local geological and hydrogeological conditions were established by review of databases maintained by the Geological Survey of Ireland (GSI). There are no records of any on-site investigations. Maps showing the subsoil distribution, the bedrock and the aquifer type and vulnerability are included in Appendix 2.

3.3.1 Geology

Subsoils

The site is underlain by made ground. It is probable, based on the classification of the surrounding lands, that the made ground is underlain by Limestone Till. The GSI Vulnerability Map indicates that the subsoil ranges from 3 to 10 meters in thickness.

Bedrock

The site is underlain by the Calp Limestone Formation, which comprises dark grey to black limestone and shale.

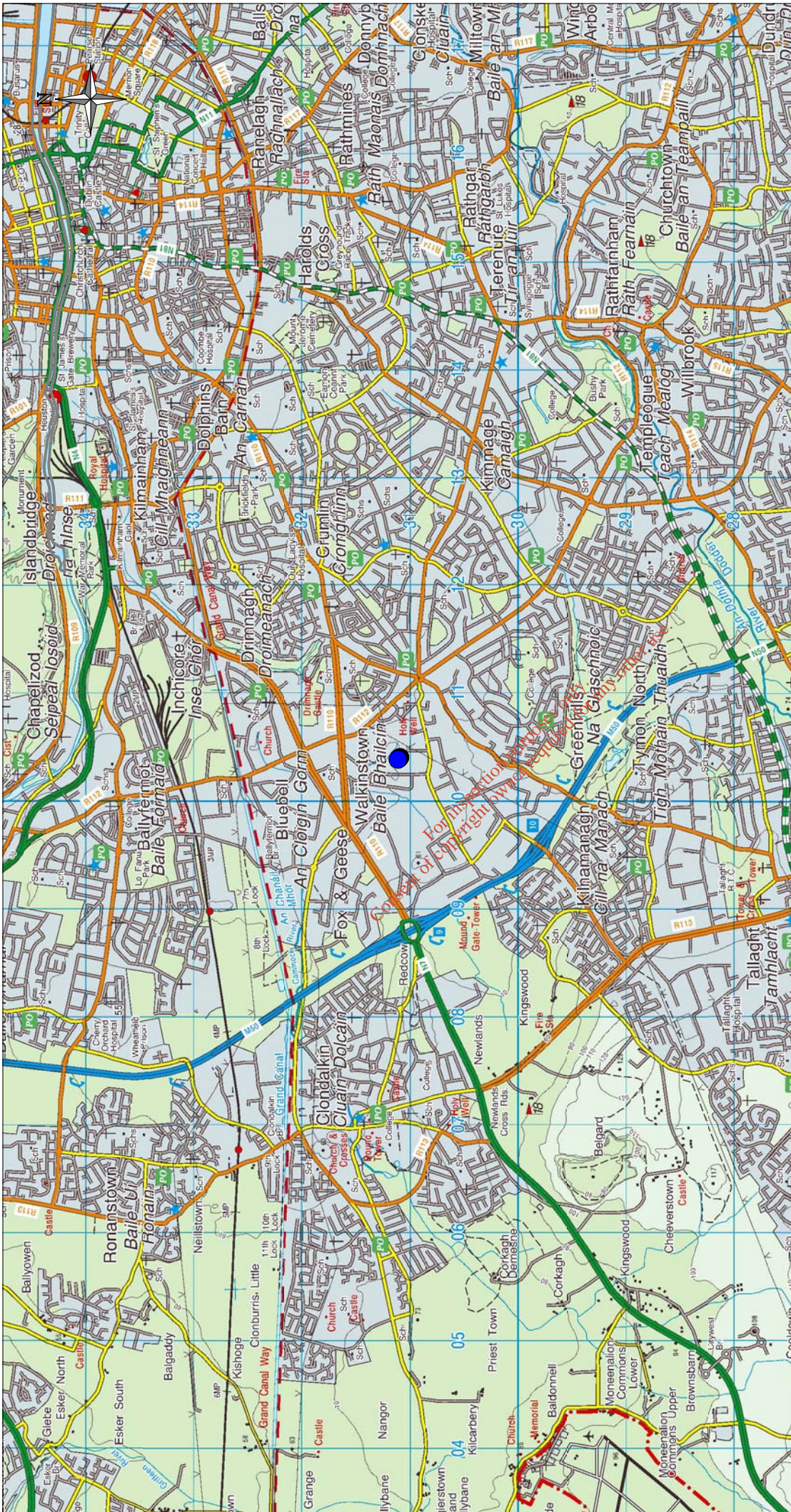


FIGURE No. 3.1


SCALE 1:50,000

Legend ● Site Location

CLIENT Irish Packaging Recycling Ltd.

TITLE Site Location

O' Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallaghanmoran.com



environmental management for business

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

3.3.2 Hydrogeology

The available information indicates that the subsoils at the site are not significantly water bearing. The underlying bedrock aquifer is classified by the GSI as a locally important aquifer, which is only moderately productive in local zones (L1). The vulnerability ranges from High to Low.

Based on the topography, the local direction of groundwater flow is considered to be to the north towards an unnamed stream that runs along the northern site boundary. There are no on site groundwater wells. A search of GSI records identified the closest downgradient groundwater well as being approximately 1.2km to the north of the site.

3.4 Surface Waters

The facility is located in the catchment of the Cammock River. An unnamed stream, which is a tributary of the Cammock, flows along the northern site boundary. A surface water drain along part of the western boundary joins the stream. The Cammock River discharges into the River Liffey near Heuston Station.

Surface water run-off from the facility discharges to the stream along the northern boundary. There is no available information on either the flow rate or water quality in the stream, but it is understood that historically it has been impacted by discharges from other activities in the area.

3.5 Surrounding Land Use

The surrounding land uses consist of a mix of industrial and agricultural activities, with the nearest residential areas approximately 160 m to the east, as shown on Drawing No. 1 and on the aerial photograph in Appendix 3. The lands to the south, west and east of the site have been intensively developed in recent years for industrial and commercial uses, with undeveloped lands immediately to the north.

4. FACILITY DESIGN

4.1 Site Layout

The site layout and proposed licence area is shown on Drawing No.2 (AE135ACO2). The facility encompasses approximately 1.21 hectares (ha) with one main building (Recycling Building 5000m²) in the north of the site. There is a double weighbridge at the north of the entrance road, with offices to the east of the weighbridge and welfare facilities to the west.

4.2 Site Services

Water is obtained from the municipal water supply. Sanitary wastewater is discharged to the municipal foul sewer. There is no record of any on-site septic tanks or percolation areas. There is a three phase electricity supply provided by the ESB. Two overhead power lines (110kv and 38kv) run across the north eastern portion of the site.

There is a fire hydrant located in the open yard to the south of the Recycling Building and a fire hose mounted on the southern side of the building. There are roof mounted sprinklers inside building.

4.3 Site Access

The facility is accessed off the Lower Ballymount Road via a private entrance road, as shown on Drawing No. 2 (AE135ACO2) The double weighbridge is located at the north of the access road which eliminates the risk of trucks queuing on the public road.

4.4 Buildings & Hardstanding

The Recycling Building houses waste processing and storage. There are access doors on the southern, eastern and northern sides of the building and the western wall forms the site boundary.

There is a security hut and site offices to the east of the weighbridge and portakabin type buildings located to the west of the weighbridge, which house offices and welfare facilities. The open yard areas to the south, east of the Recycling Building are paved. To the north of the building is a disused surface water pond that was originally used to store water for fire fighting purposes. This is no longer in use and is fenced off.

4.5 Waste Quarantine Area

A waste quarantine area is provided inside the Recyclin Building. Any unsuitable materials picked out from the incoming deliveries and which cannot be returned to the producer on the same day are stored in the quarantine area.

4.6 Surface Water

The surface water drainage system is shown on Drawing No 2 (AE135ACO2). Surface water from roofs and paved areas is collected in the drains and discharged to the stream along the northern site boundary. There is a silt trap located in the north east of the site, but no oil interceptor. A recent CCTV survey of the system has identified the need for significant improvement works to the drains.

4.7 Oil Storage

Facility operations involve the storage and handling of diesel for the site plant and collection vehicles, and engine and lubricating oils used in plant and equipment maintenance. Diesel is stored in two (2 No) above ground tanks located in a concrete bund along the western site boundary. There is no record of any underground fuel storage tanks.

Lubricating and hydraulic oils are stored in Intermediate Bulk Containers (IBC) located inside the oil tank bund. Waste oils generated during plant maintenance are collected in drums and are also stored in the bund. Oil spill containment and clean-up equipment are provided and are stored at the southern and northern ends of the Recycling Building.

4.8 Security

The site boundary is formed by a 3m palisade fence that surrounds the entire premises. There is a barrier at the site entrance and C.C.T.V. cameras located strategically around the site.

5. OPERATIONS

5.1 Operational Hours

The Waste Permit allows the facility to operate from 06.00 to 03.00 Monday to Sunday. However, due to the nature of the recycling business it may on occasion be necessary to operate on a 24 hour basis.

5.2 Staff

There are twenty-six (26) people based at the facility. These include a Facility Manager, weighbridge clerk, machine operators, general operatives and administration staff. The Facility Manager has seventeen years experience in the operation of waste management facilities.

5.3 Facility Access

All vehicles, including waste transports and private cars, enter and leave the facility via the entrance road off the Ballymount Road.

5.4 Waste Types and Volumes

The waste types and volumes accepted at the facility are shown on Table 5.1. The facility only accepts recyclable materials and does not intentionally take non-recyclables.

Table 5.1 Total Waste Inputs

Waste Type	Tonnes
Mixed Dry Recyclables	50,000*
Paper and Cardboard	100,000*
Total	150,000

*Subject to Market Conditions

The Mixed Dry Recyclables predominantly come from PANDA's household 'green bin' and commercial collection service in the Greater Dublin Area.

The sources of Paper & Cardboard include: -

- Supermarkets/Shops;
- Factories;
- Printing Houses;
- Newspaper Houses;
- Waste Management Facilities;
- Offices.

5.5 Waste Acceptance Procedures

The paper and cardboard is delivered to the facility IPR collection vehicles, waste contractors that have a valid collection permit and/or producers. The facility does not accept waste from members of the general public.

All waste delivery vehicles are obliged to enter onto the weighbridge at the site entrance, where they are weighed and relevant accompanying documentation checked. Any loads, which upon inspection are found to contain large amounts of unsuitable wastes, are not accepted. Following acceptance at the weighbridge the vehicle is directed to the Recycling Building for off-loading.

Designated areas for specific waste types have been assigned inside the Recycling Building e.g. source separated plastic, cardboard and newsprint. Multilift bins, compactors and paper banks are off loaded inside the building. Flatbed trucks and curtain side trucks, which deliver paper/cardboard in cages/wrapped pallets, are generally offloaded outside the building by a clamptruck or forklift and then brought inside.

Any waste identified as not suitable following off-loading is immediately removed and, where practical, returned to the delivery vehicle. If this is not practical, the waste is stored in a designated quarantine area pending its removal off-site by either the waste producer, or the contractor who delivered it. In the event of the producer or contractor refusing to remove the waste IPR ensure that it is sent to an appropriate facility as soon as practical.

5.6 Waste Handling

The facility handles only dry recyclable materials. All waste and processing is and will continue to be carried out inside the Buildings. Baled dry recyclables (plastic, paper and cardboard) are stored externally on the open paved areas.

5.6.1 Dry Recyclables

The Dry Recyclables include pre-segregated and mixed C&I and Household wastes. The materials are off-loaded inside the building, where they are inspected for stray contaminants and such materials are immediately removed to a designated internal waste quarantine area. The pre-segregated material is moved to the baling units where it is baled.

The mixed waste is separated manually and mechanically into the different waste streams (paper, cardboard, plastic, glass, metal) using a sorting line incorporating a loading hopper, conveyor, picking line, ballistic separators and magnets. The paper, cardboard and plastic and metal cans are baled. The glass is collected in a bin.

5.6.2 Paper & Cardboard

The higher value, low quantity material is sent to the sorting floor by way of conveyor where it passes over five open top bins. Each bin is dedicated to a particular grade. As the waste paper passes along the conveyor, the sorting personnel pick out the particular grade and deposit it into the appropriate bin. Any unsorted waste paper falls into an end bin and is graded as mixed papers (the lowest value grade). When a bin is full its front door is opened and the waste paper deposited onto a conveyor which brings it to the baler.

Where there are large quantities of waste paper of a particular grade in the processing area e.g. Mixed Papers and Newsprint these are fed into the baler using a mechanical grab and conveyor. The level of sorting on these bulk grades is not as critical as for the higher quantity grades.

Hand sorting on the floor mainly occurs when the material is delivered in boxes/cages or is wrapped in polythene e.g. reams of brochures or books. The material is sorted until there is enough of a particular grade to send directly to the baling press by way of conveyors. Having removed the wrapper this type of material is sorted into boxes/cages by grade. When there is sufficient quantity (minimum one tonne) of a particular grade in boxes/cages the contents are then loaded on the conveyor and baled.

Mechanical sorting normally takes place when sorting bulk grades i.e. news and magazines/ cardboard, if there is a section of a load which is not up to specification this is removed using the mechanical grab and deposited into an appropriate grade.

All the bales are tied automatically with wire. On average the weight of each bale is 750 kg, but this can vary from 500 kg to 1,000 kg depending on size, density, waste paper type and moisture content. The finished bales are moved to the designated storage areas, which are both inside and outside the building, using a clamp truck.

5.7 Plant & Machinery

Facility operations require the use of a range of fixed and mobile plant as shown in Table 5.2.

Table 5.2 Plant and Equipment

Type of Plant	No
Front Loading Shovel	1
BobCat	3
Baler	3
Air Compressor	1
Shredder	1
Conveyor	1
Forklift/Clamp Trucks	6

The plant provides 100% duty and 50% standby processing capacity. Additional supporting plant items can be hired in for short periods, if required, to augment the standby capability and ensure continued operations. Critical spares are maintained on-site and a preventative maintenance programme is implemented.

5.8 Wastes Generated

5.8.1 Waste Types & Volumes

The facility generates small volumes of office and canteen type wastes. IPR operates a source segregation policy to maximise the recovery of potential recyclable materials from these waste streams. All recovered materials are transferred off-site to recovery/recycling facilities.

Unsuitable materials identified in the incoming waste stream and which cannot be removed by the delivery vehicle, are stored in the Quarantine Area on-site pending removal off-site for disposal at appropriately licensed recycling or treatment facilities.

The mobile plant is subject to on-site maintenance and the waste oils and batteries are removed off-site for disposal/recovery at licensed treatment/recovery facilities.

5.8.2 Waste Disposal / Treatment

All wastes leaving the facility are weighed at the weighbridge and IPR retains records of the waste types (EWC codes), volumes (tonnes) and the destination.

5.9 Surface Water Management

Surface water run-off from the paved yard areas and roofs is collected in the surface water drainage system and discharged, via a silt trap, to the stream that runs along the northern site boundary.

5.10 Wastewater

Sanitary and sink wastewater from the site offices discharges to the facility's foul drainage system, which connects to the municipal foul sewer. The sanitary waste water demand is estimated at 200l per person per day. Facility activities do not generate any process wastewater (e.g. floor washdowns or wheel wash). Given the nature of the materials handled (dry recyclables), there is no requirement for either a vehicle or wheel wash.

5.11 Environmental Nuisance

The types of materials accepted at the facility are not attractive to birds, vermin or flies and neither are they a potential source of malodours. The materials are a potential source of litter. All wastes are delivered to and transferred from the facility in fully enclosed vehicles and all waste processing is carried out inside the Recycling Building.

With the exception of the paper/cardboard delivered in cages or wrapped pallets, materials are not off-loaded in open areas. Baled waste (plastic, cardboard and paper) is stored externally. The bales are compacted and wire tied and are not normally a source of windblown litter. In the event of an incident, which results in windblown litter, facility personnel ensure its immediate collection.

5.12 Safety and Hazard Control

All site personnel and visitors to the site are obliged to comply with IPR safety guidelines. The guidelines regulate access to and from the site and traffic movement on the site.

All site personnel are provided with and are obliged to wear the requisite personal protective equipment (PPE). PPE may include face masks, gloves, safety glasses, steel-toed footwear, overalls, reflective jackets and helmets.

5.13 Annual Natural Resource Consumption

Facility operations will involve the consumption of water, oil and electricity. The estimated quantities used annually are: -

Table 5.4: Raw Material Consumption

Resource	Quantities
Diesel Oil	?
Hydraulic Oil	litres
Disinfectant	litres
Odour Neutralisers	litres
Engine Oil	litres
Water	m ³
Electricity*	?kW

*Subject to variation depending on the processing plant layout

5.14 Contingency Arrangements

IPR has prepared an Emergency Response Plan so as to ensure there is a rapid response to any incident by trained staff and minimise the impact on the environment of any associated emissions. A copy of the plan is included in Appendix 4.

6. EMISSION CONTROL & MITIGATION

The potential emissions associated with facility operations include, surface water, sanitary wastewater, noise and dust. The receiving media include surface waters and air. There is no direct or indirect emission to soil or groundwater.

6.1 Surface Water

6.1.1 Assessment

Surface water from the site discharges to the tributary of the River Cammock that runs along the northern site boundary. It is understood that there is no oil interceptor on the internal surface water drainage system. Site activities with the potential to impact on surface water quality are limited to:

- Storm water from the paved open yard areas;
- Spills and leaks;
- Sanitary wastewater.

6.1.2 Mitigation Measures

Surface water from the paved areas may potentially contain silt and small amounts of oils arising from minor leaks from road vehicles and the mobile plant. The surface water drainage system needs improvement works and it is expected that this work will be carried out by the property owner in 2009. The improvement works may include the provision of an oil separator.

The volume of oils stored at the facility is kept to the minimum required for continued operation. These raw materials are currently stored in the oil storage tank bund spill containment kits are provided and maintained on-site and facility personnel are trained in the proper use of the kits to contain and clean up any major spills.

Sanitary and sink wastewater discharges to the municipal foul sewer, which is separate from the surface water system.

6.2 Soil and Groundwater

6.2.1 Assessment

There are no direct or indirect long-term emissions to ground or groundwater. The extensive paved areas that provided with surface water collection drains, and the secondary containment of the oil storage areas minimises the potential for short term direct or indirect discharges to ground or groundwater in the event of spill or leak.

6.3 Noise

6.3.1 Impact Assessment

The potential sources of noise are waste transport vehicles, mobile plant and materials processing. The current Permit requires that the ambient/environmental noise levels should not exceed 55dB(A) during the daytime and 45dB(A) during night time hours at the nearest noise sensitive locations. The closest sensitive locations are the private dwellings located approximately 160m to the north east of the site. The Permit does not require compliance monitoring and no noise surveys have been completed. The facility has not received any noise complaints since IPR took over operations in 2007.

6.3.2 Mitigation Measures

All waste processing is carried out inside the Recycling Building, which reduces the risk of noise impacts at off-site sensitive locations.

6.4 Dust & Vehicle Exhaust

6.4.1 Assessment

Dust is not a significant problem at the facility. All waste processing activities with the potential to generate dust (shredding, screening, baling) are carried out internally. The entrance road, vehicle manoeuvring and parking areas are paved and cleaned at regular intervals.

There are exhaust emissions from the materials delivery and transfer vehicles. All deliveries and transfer are in bulk, to minimise the number of vehicle movements. The majority of the vehicles are diesel fuelled and use AdBlue to reduce nitrogen oxide emissions.

6.4.2 Control Measures

A road sweeper will be hired in as required during dry weather periods to sweep the open paved yards.

For inspection purposes only.
Consent of copyright owner required for any other use.

7. ENVIRONMENTAL MONITORING

The proposed programme includes dust, noise and surface water and the proposed monitoring locations are shown on Drawing 3. As the waste activities do not generate any process waste water and do not result in emissions to ground/groundwater it is not proposed to monitor either wastewater or groundwater.

7.1.1 Dust

Dust will be monitored at three locations on the property boundary biannually. The measurements will be carried out using Bergerhoff gauges specified in the German Engineering Institute VDI 2119 document entitled "Measurement of Dustfall Using the Bergerhoff Instrument (Standard Method).

7.1.2 Noise

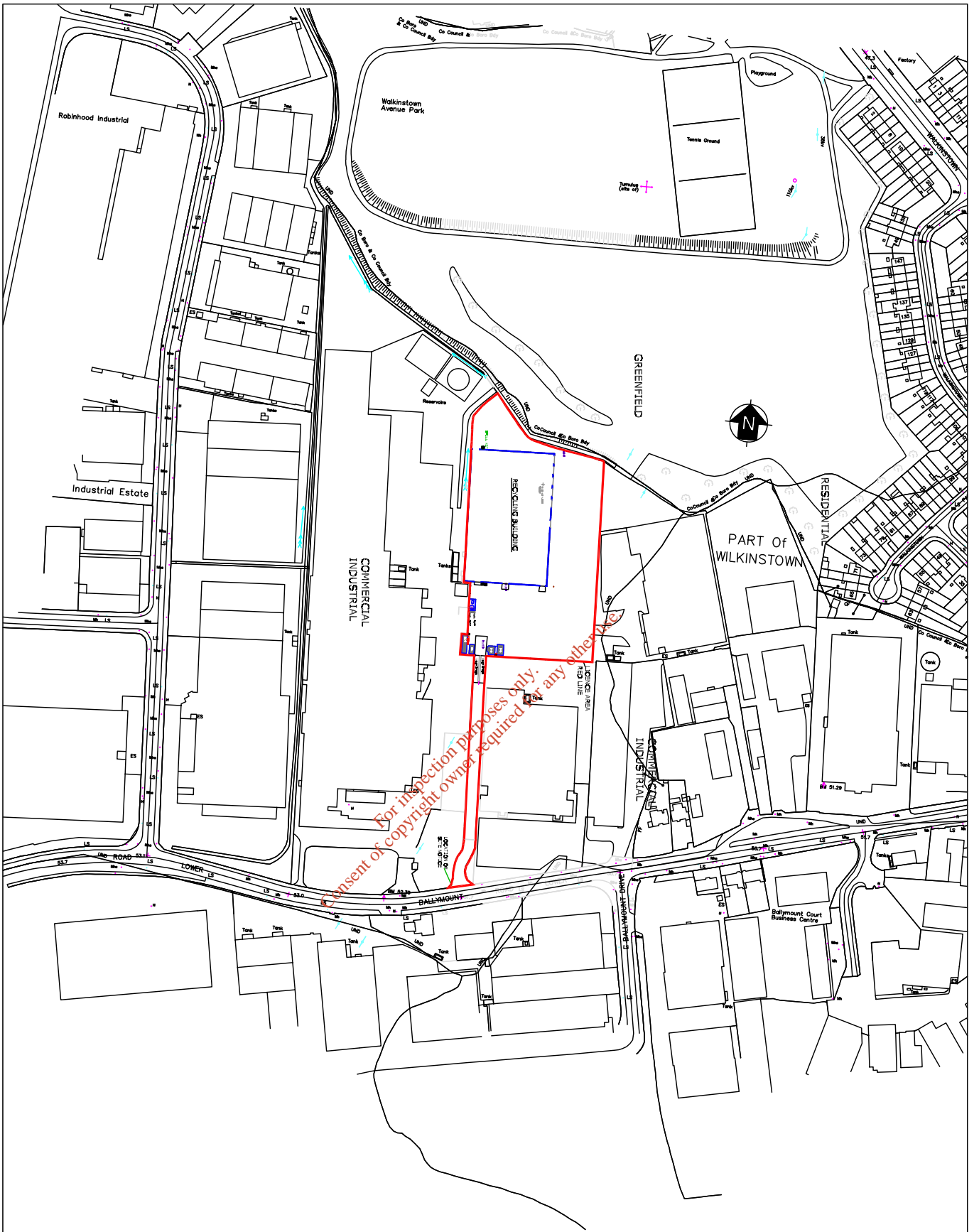
Noise will be monitored at two locations on the site boundary and at the nearest noise sensitive location annually. The monitoring will be representative of daytime 30-minute L(A)eq and will be carried out in accordance with the ISO1996: Acoustics - Description and Measurement of Environmental Noise.

7.1.3 Surface Water

The surface water discharge from the site will be monitored on a quarterly basis. The parameters will include electrical conductivity, pH and hydrocarbons. As the discharge will be intermittent and linked to rainfall events, grab samples will be collected.

DRAWINGS

*For inspection purposes only.
Consent of copyright owner required for any other use.*



NOTES

REV	DATE	DESCRIPTION	JOC	SM	BY
A	02/02/04	LICENSE ISSUE	JOC	SM	BY

0' Cadogan Moran & Associates
 Environmental & Technical Services
 Co. Wick, Ireland
 Tel: (051) 4321831 Fax: (051) 4321823
 email: comor@oqa.com

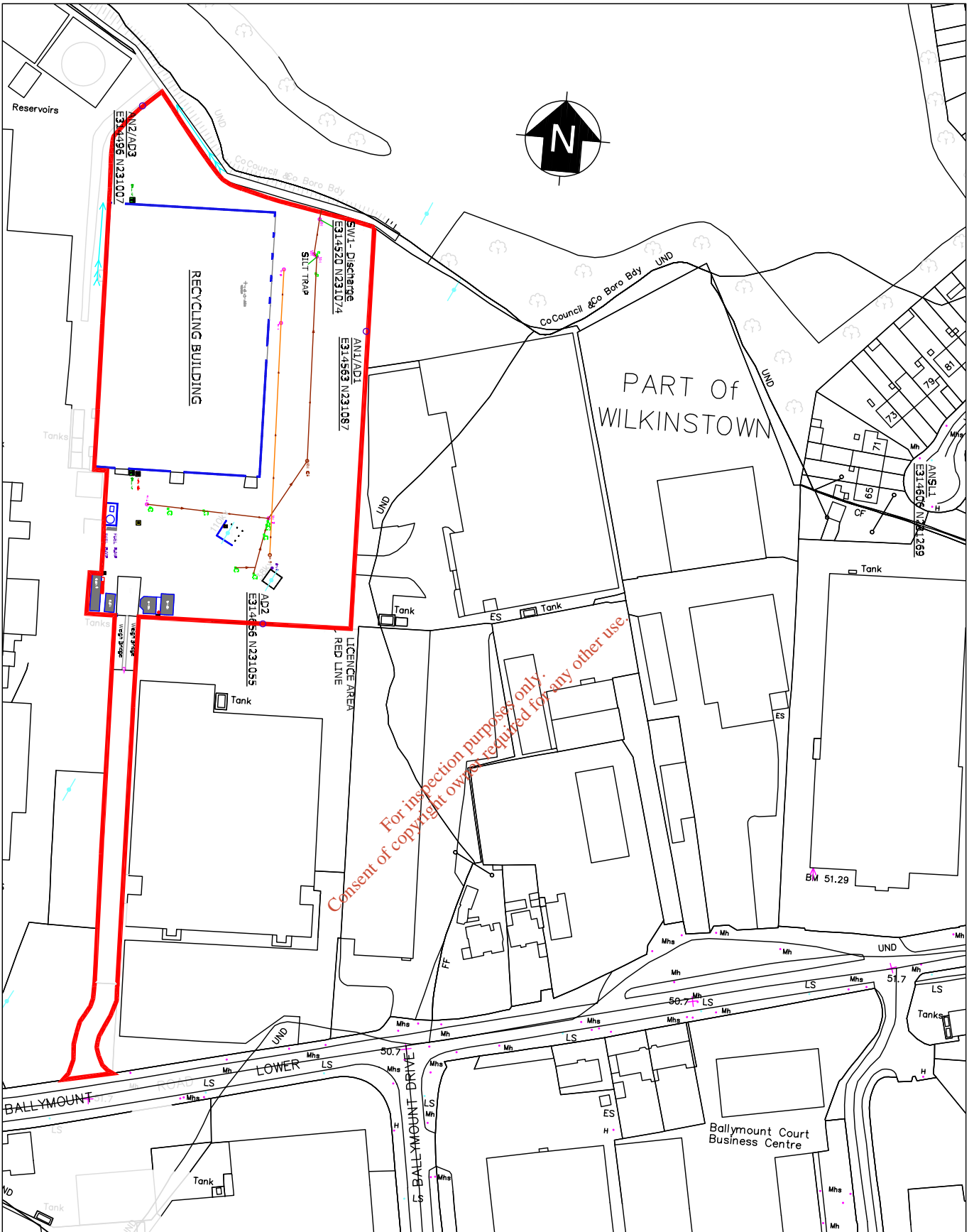
This drawing is the property of Cadogan Moran & Associates and shall remain the property of Cadogan Moran & Associates and shall not be used for any other purpose without the written consent of Cadogan Moran & Associates.

CLIENT
 Irish Packaging Recycling


TITLE
 SITE LOCATION PLAN
 SURROUNDING LANDUSE

SCALE DRAWING No. 1
 1:2500
 REV. A

DOS Filenames : *****



For inspection purposes only.
Consent of copyright owner required for any other use.

<p>SCALE: DRAWING No. 3</p> <p>1:1250</p> <p>DOS Filename: *****</p>	<p>TITLE: MONITORING LOCATIONS</p>	<p>CLIENT: Irish Packaging Recycling</p>	 <p>O'Callaghan Brown & Associates Geaney House, Rutland Street, Dublin 7, Co. Dublin, Ireland Tel: (01) 4521922 Fax: (01) 4521923 www.o'callaghanbrown.com</p>	<p>ANSL - Noise Sensitive Loc AD1/D2/D3 - Dust SW - Surface water</p>	<p>NOTES</p>
<p>This drawing is the property of O'Callaghan Brown & Associates and shall remain the property of O'Callaghan Brown & Associates and shall be returned upon request.</p>					

APPENDIX 1

Waste Permit

*For inspection purposes only.
Consent of copyright owner required for any other use.*

SOUTH DUBLIN COUNTY COUNCIL



ENVIRONMENTAL SERVICES DEPARTMENT

**Waste Management Act, 1996 to 2007
Waste Management (Permit) Regulations, 1998**

WASTE PERMIT

Waste Permit Register Number: WPR 021/2

Applicant: Irish Packaging Recycling Ltd.
T/A Panda Waste Services Ltd.

Address: Rathdrinagh
Beauparc
Navan
Co. Meath

Location of Facility: Ballymount Road
Walkinstown
Dublin 12

Activity: Sorting, Separating, Baling, Storage,
Shipping of Recovered Paper,
Plastic and Wood Packaging.

Valid: 1st September 2007 to 31st
August 2010

For inspection purposes only.
Consent of copyright owner required for any other use.

ACTIVITIES PERMITTED

In pursuance of the powers conferred on it by the Waste Management Acts, 1996 to 2007 and the Waste Management (Permit) Regulations, 1998, South Dublin County Council grants this waste permit under Article 5 of the said Regulations to Irish Packaging Recycling Ltd., T/A Panda Waste Services Ltd., to carry on the waste activities listed below at Lower Ballymount Road, Walkinstown, Dublin 12. The permit is issued subject to conditions, with the reasons therefore set out in the permit.

Permitted Waste Recovery Activity, in accordance with the First Schedule
of the Waste Management (Permit) Regulations, 1998:

Activity 5: *The recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the amount of compost and waste held at the facility exceeds 1000 cubic meters at any time)*

Permitted Waste Activities, in accordance with the Fourth Schedule
of the Waste Management Act, 1996 to 2007

Activity 4: *Recycling or reclamation of other inorganic materials.*

Activity 13: *Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.*

NOTE:

GRANTING OF THIS PERMIT, AND ANY CONDITION IMPOSED BY IT, DOES NOT EXEMPT THE HOLDER OF THE PERMIT FROM COMPLYING WITH THE STATUTORY OBLIGATIONS OF ANY RELEVANT LEGISLATION, INCLUDING WATER POLLUTION, AIR POLLUTION, NOISE EMISSIONS, WASTE, LITTER, PLANNING, AND OCCUPATIONAL HEALTH LEGISLATION.

CONDITION 1: SCOPE

- 1.1 This waste permit is issued under the Waste Management (Permit) Regulations, 1998, to Irish Packaging Recycling Ltd., T/A Panda Waste Services Ltd in respect for a waste management permit for **Sorting, Separation, baling, Storage, Shipping of Recovered Paper, Plastic and Wood Packaging** and will be non-transferrable. The permit holder shall be responsible for the operation of the waste facility in strict accordance with the permit conditions.
- 1.2 This waste permit is/shall be valid for three years from **01st September 2007 to 31st August 2010** save when South Dublin County Council at its sole discretion revokes the permit. South Dublin County Council may, at any time, review the permit at its discretion.
- 1.3 The waste activities shall be confined to the area outlined in the site plan submitted with the permit application on 8th June 2007 and shall take place only as specified in the application, as modified and/or controlled by the terms of this permit.
- 1.4 The permit holder shall give notice in writing to South Dublin County Council Environmental Services Department of any significant changes in the information furnished in the application for the permit. Such notice shall be given within three (3) weeks of any such change arising. On receipt of this information, South Dublin County Council may require a new waste permit application to be submitted.
- 1.5 The permit holder shall comply fully with the requirements of the Waste Management Acts 1996 to 2007, Local Government (Planning and Development) Acts, the Water Pollution Acts and the Litter Pollution Act, and all relevant regulations.
- 1.6 The permit holder shall comply at all times with the different provisions of the Community Acts detailed in the Third Schedule of the Waste Management (Permit) Regulations, 1998.
- 1.7 The Permit holder shall comply at all times with the 'Waste Management Plan for the Dublin Region 2005-2010' and all amendments to it.
- 1.8 Any condition imposed in this permit shall not relieve the permit holder of his/her statutory obligations under any other enactment whatsoever.
- 1.9 In the event of any breach of the conditions of the permit, the permit holder shall on receipt of notice from South Dublin County Council, cease operations on the site within the time specified on the notice and the permit shall be suspended from the date specified on the notice until such suspension is lifted on rectification of the breach of conditions in the notice. This condition shall apply save when condition no.1.2 is invoked. Notice under this condition shall be sent by registered post to the permit holder at its registered office and shall be deemed to be received three days after posting.

When the notice has been complied with, the permit holder shall provide written confirmation to the local authority that the requirements of the notice have been carried out. No waste, other than that stipulated in the notice shall be accepted at the facility until written confirmation is received from the Council that the notice is withdrawn.

1.10 Commencement Notice.

The permit holder shall give SDCC a minimum of 14 days notice of commencement of permitted operations on site/facility.

REASON: *To clarify the scope of this waste permit.*

CONDITION 2: MANAGEMENT OF THE ACTIVITY

- 2.1 The permit holder shall acquaint all staff, employees, lessees and agents, including replacement personnel, of the provisions and conditions of this permit.
- 2.2 A copy of this Permit shall be held at all times at the facility.
- 2.3 The Site shall be adequately manned and supervised at all times. It shall be maintained to the satisfaction of South Dublin County Council and adequate precautions shall be taken to prevent unauthorised access to the site.
- 2.4 The Permit Holder is to notify the following to South Dublin County Council in writing within one month of receipt of permit:
 - (a) The name of the person on site nominated by them who has responsibility for the implementation of the Waste Regulations and the name of his/her deputy.
 - (b) The name, address and telephone number of the person nominated by them to provide 24 hour call out in the event of an emergency.
 - (c) Confirmation of acceptance of all the conditions attached to the permit.
- 2.5 The hours of operation of the facility shall be between the hours of **06-00 and 03-00hrs, Monday to Sunday, 7 days per week**. No waste shall be accepted outside these hours unless otherwise agreed with South Dublin County Council.

REASON: *To make provision for the proper management of the activity.*

CONDITION 3: NOTIFICATION AND RECORD KEEPING

- 3.1 All communications with South Dublin County Council shall be addressed to the **Senior Engineer, Waste Management Section, Environmental Services Department, South Dublin County Council, County Hall, Town Centre, Tallaght, Dublin 24. Phone 01 414 9000, Fax 01 4149334**
- 3.2 Records shall be kept on site in a site register and shall include the following information:
 - (a) Name of the carrier.
 - (b) Description and origin of the material in each load.
 - (c) The dates and times of all waste deliveries to the site and vehicle registration numbers.
 - (d) The quantity of the materials.
 - (e) Where loads are removed or rejected, details of the material and the place to which they were removed.

- 3.3 The permit holder shall immediately notify South Dublin Council by telephone/fax of any incident that occurs as a result of the activity on the site, and which: -
- (a) has the potential for environmental contamination of surface water or ground water, or
 - (b) poses an environmental threat to air or land, or
 - (c) requires an emergency response by the Council.

Full details shall be forwarded in writing on the next working day. The permit holder shall include as part of the notification: -

- the date and time of the incident
- details of the incident and circumstances giving rise to it
- an evaluation of environmental pollution caused, if any
- actions taken to minimise the effect on the environment
- steps taken to avoid reoccurrence
- any other remedial action taken.

The permit holder shall make a record of any such incident in a register to be maintained on the site.

- 3.4 The Permit Holder shall maintain on the site a register of all complaints received relating to the operation of the activity. Each such record should give details of the following: -

- time and date of the complaint
- the name of the complainant
- details of the nature of the complaint
- actions taken to deal with the complaint and the results of such actions
- the response made to each complainant

- 3.5 The permit holder shall make all records maintained on the site available for examination to South Dublin County Council staff at all reasonable times, and shall provide any relevant information when so requested by an authorised officer of South Dublin County Council.

- 3.6 The permit holder shall notify South Dublin County Council, within 7 days thereafter, of the imposition of any Court order made under Section 57 or 58 of the Waste Management Act 1996 to 2007, and also of any conviction for an offence under Section 34(5) or 40(7) of the Waste Management Act.

- 3.7 Where waste permits are issued for a period longer than 12 months, the permit holder shall submit to South Dublin County Council an **Annual Environmental Report (AER)** for the preceding calendar year by no later than the **28th February** of each year. For permits issued for 12 months or less, the permit holder shall submit the Environmental Report within one month of waste activities ceasing on the site.

The report shall include the information contained in the registers described above and details of any impositions or convictions imposed under the Waste Management Act, together with details of: -

- (a) the management and staffing structure of the facility
- (b) quantity, composition and destination of all wastes handled at the facility during the year
- (c) details of any loads rejected at the facility during the year
- (d) reportable incidents
- (e) details of all complaints
- (f) In addition, the permit holder shall include in the report, a written summary of compliance with all of the conditions attached to this permit.

REASON: *To provide for the notification of incidents, to update information on the activity and to provide for the keeping of proper records.*

CONDITION 4: SITE INFRASTRUCTURE

- 4.1 The Permit Holder shall provide and maintain a **substantial site notice board** at the entrance to the facility. The Board shall clearly show:
- The name and telephone number of the facility.
 - The waste management permit number and date of grant of the permit.
 - The normal opening hours of the facility.
 - The name, address and telephone number of the permit holder.
- 4.2 The site, site entrance and access roads shall be maintained to the satisfaction of South Dublin County Council. Roadways shall be maintained to ensure the safe movement of vehicles within the facility. No traffic queuing shall be allowed on the public road. No new roadways shall be constructed using demolition and construction waste without the prior approval of South Dublin County Council.
- 4.3 Adequate precautions shall be taken to prevent unauthorised access to the site.

REASON: *To provide for the protection of the environment.*

CONDITION 5: WASTE ACCEPTANCE AND HANDLING

- 5.1 Only the following materials of a solid, non-hazardous domestic nature with the appropriate European Waste Catalogue (EWC) Codes shall be accepted and processed at the site:
- **20 01 01** paper and cardboard
 - **04 02 22** Textiles
 - **16 01 03** End of Life Tyres
 - **20 01 39** plastics
 - **20 01 38** wood other than that mentioned in 20 01 37 (wood containing dangerous substances)
 - **19 12 12** other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (**see Note 1**)

Note 1: Only Dry Recyclable material shall be acceptable under 19 12 12

No other waste types are permitted at the facility. The permit holder shall ensure that adequate steps are taken to prevent acceptance of any other waste types.

- 5.2 Materials other than those permitted shall be removed immediately from the site. Such waste shall be disposed of (or recovered) at an alternative facility with an appropriate waste permit or waste license.
- 5.3 The permit holder shall ensure that appropriate storage is provided for the materials on site.

- 5.4 The Permit Holder shall ensure that all contractors and vehicles delivering to the site or transporting waste from the site currently hold a valid **Waste Collection Permit** from the relevant Local Authority in accordance with the Waste Management (Collection Permit) Regulations, or has applied and is legally entitled to collect and transport waste material.

REASON: *To provide for the acceptance and management of wastes authorised under this waste permit.*

CONDITION 6: NUISANCES, EMISSIONS AND ENVIRONMENTAL IMPACTS

- 6.1 The permit holder shall take adequate precautions to prevent undue noise, fumes, dust, grit, untidiness and other nuisances on the site, which would result in a significant impairment of, or a significant interference with, amenities or the environment beyond the site boundary. If unacceptable levels occur, the permit holder shall abide by the Council's abatement requirements, which may include immediate cessation of operations.
- 6.2 All vehicles transporting loose waste to and from the premises shall be **either totally sealed or covered with a net or tarpaulin in such a manner as to preclude the scatter of materials in transit to and from the site.** The permit holder shall be responsible for the clearance of any material deposited on roadways in transit to the site. Failure to maintain roadways in a satisfactory condition will result in this permit being revoked and possible prosecution.
- 6.3 Loose waste, which may be lying on the site or access road to the site, shall be gathered and disposed of immediately or as directed by the Council. **Preventative measures must be in place to minimise the incidents of waste materials from your premises entering adjacent premises.** Details of these preventative measures must be forwarded to our offices within 14 days on receipt of this permit.
- 6.4 Dust suppression equipment must be available at all times in the event of excess dust emissions arising from the operations. The permit holder must comply with all Occupational and Health & Safety Legislation requirements with regard to the employees' health and safety requirements.
- 6.5 The permit holder shall take adequate steps to minimise noise from the development and shall have regard to noise sensitive locations. In addition there shall be no clearly audible tonal component or impulsive component in the noise emissions from the site at any noise sensitive locations. Daily ambient/environmental noise levels should not exceed 55dBA (Leq 5mins) with night time noise levels not exceeding 45dBA (Leq 5mins) at noise sensitive locations.
- 6.6 If, in the opinion of the Roads Maintenance Area Engineer, damage is being caused to public roads being used to haul material to the site by the Permit Holder, he shall be empowered to verbally instruct the Permit Holder to cease using these haul roads and use alternative route(s) until the damage has been repaired to the satisfaction of the Council. The Permit Holder shall comply with any such instruction.
- 6.7 The permit holder shall maintain sufficient and continuous vermin control at the site.
- 6.8 No vehicle queuing or parking of vehicles must occur at the entrance or exit to the facility. If in the opinion of South Dublin County Council, vehicles are causing a

potential hazard to road users in the area or a hazard to users of adjacent facilities, the Permit may be suspended or possibly revoked.

REASON: *To provide for the control of nuisances, emissions and other environmental impacts.*

CONDITION 7: ENVIRONMENTAL MONITORING

- 7.1 **Authorized staff of South Dublin County Council shall have unrestricted access to the premises at all reasonable times on production of identification**, if required, for the purpose of their functions under the Waste Management Acts 1996 to 2007, including such inspections, monitoring and investigations as are deemed necessary by the Council.

REASON: *To ensure compliance with the requirements of the conditions of this permit.*

CONDITION 8: CONTINGENCY ARRANGEMENTS

- 8.1 Adequate fire extinguishers and emergency response equipment shall be maintained on site.
- 8.2 The permit holder shall ensure that an **Emergency Response Procedure (ERP)** is in place, which shall address any emergency situation that may originate on site. This procedure shall include provision for minimizing the effects of any emergency on the environment. The ERP is to be submitted to South Dublin County within six months of the date of issue of this permit.

REASON: *To provide for an emergency situation at the facility.*

CONDITION 9: CHARGES AND FINANCIAL PROVISIONS

- 9.1 The Permit Holder shall indemnify South Dublin County Council in respect of all claims, losses, damages arising out of injury to any person or loss of or damage to any property whatsoever caused by or in connection with the operation and management of the facility.
- 9.2 The Permit Holder shall pay to South Dublin County Council a fee of **€12,000**, towards the cost of inspecting, monitoring or otherwise performing any functions in relation to the permit activity. **€4,000** to be paid within 14 days of the date of commencement, referred to in condition 1.9, failure to pay the fee on time will render the permit invalid, **€4,000** to be paid on the each anniversary of the date of the initial payment. Should this permit be suspended or revoked for any reason, the fee is non-refundable.

The fee is due 14 days after the notice of commencement of permitted operations, referred to in condition 1.9. Failure to pay the fee on time will render the permit invalid.

- 9.3 In the event of an incident occurring at the site which leads to the emission or release of hazardous materials or of waste which contains any of the properties outlined in Part III

of the Second Schedule of the Waste Management Act, 1996 to 2007 and which has a detrimental effect on the surrounding environment, or which is deemed to be so by authorised officers from South Dublin County Council, pollution abatement and remediation measures must be taken. South Dublin County Council may take these measures and their costs reimbursed by the permit holder. Analysis and monitoring included in these measures if required must continue for not less than 10 years after the final remediation works have been carried out.

REASON: *To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.*

*For inspection purposes only.
Consent of copyright owner required for any other use.*

APPENDIX 2

Geology/Hydrogeology

*For inspection purposes only.
Consent of copyright owner required for any other use.*

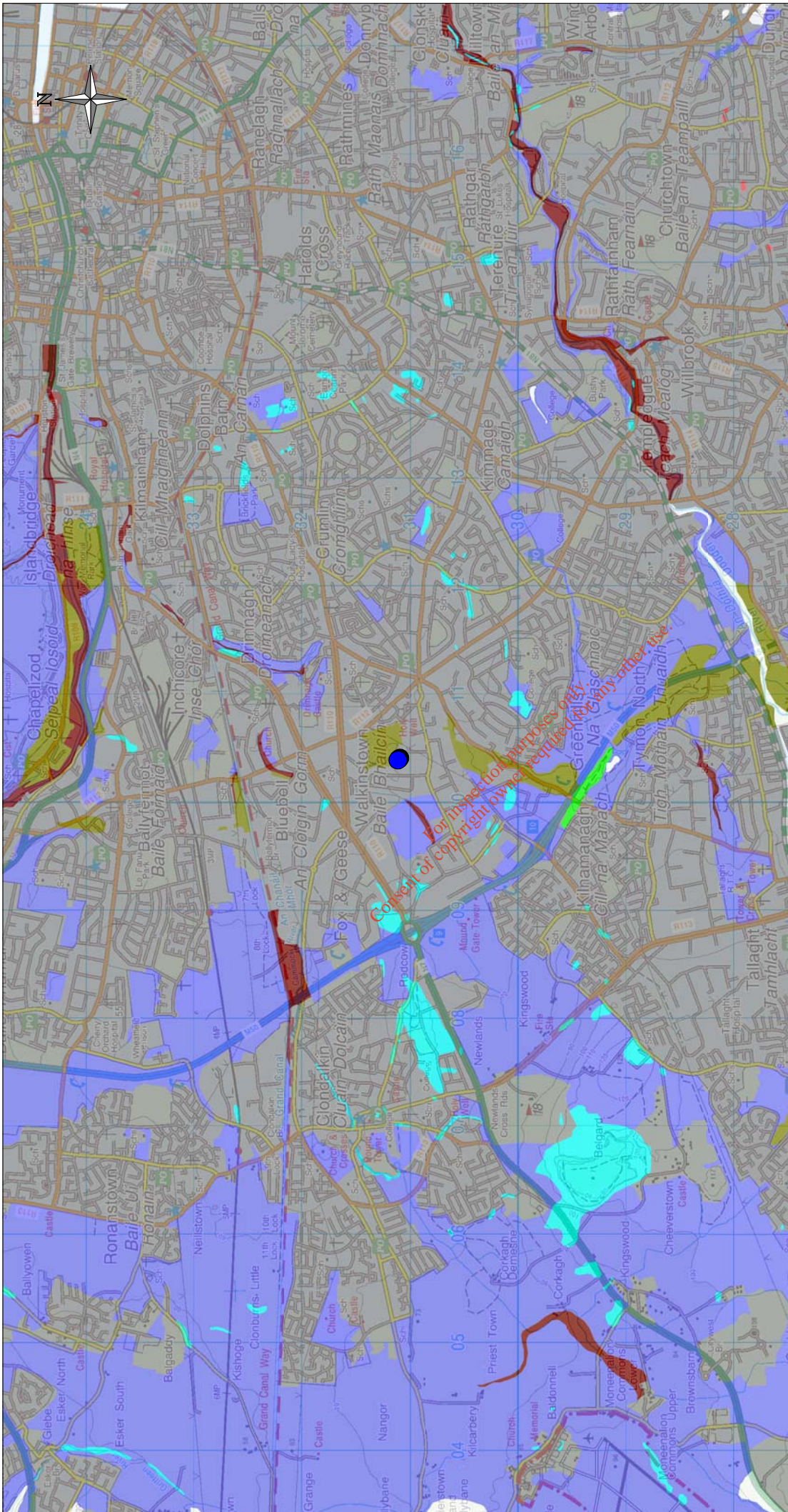








FIGURE No. **2.1**

SCALE **1:50,000**


Legend

	Made Ground
	Limestone Gravel
	Limestone Till
	Rock Close
	Alluvium
	Esker Sands and Gravels

CLIENT **Irish Packaging Recycling Ltd.**

TITLE **Subsoils**

O' Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallaghanmoran.com



environmental management for business

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

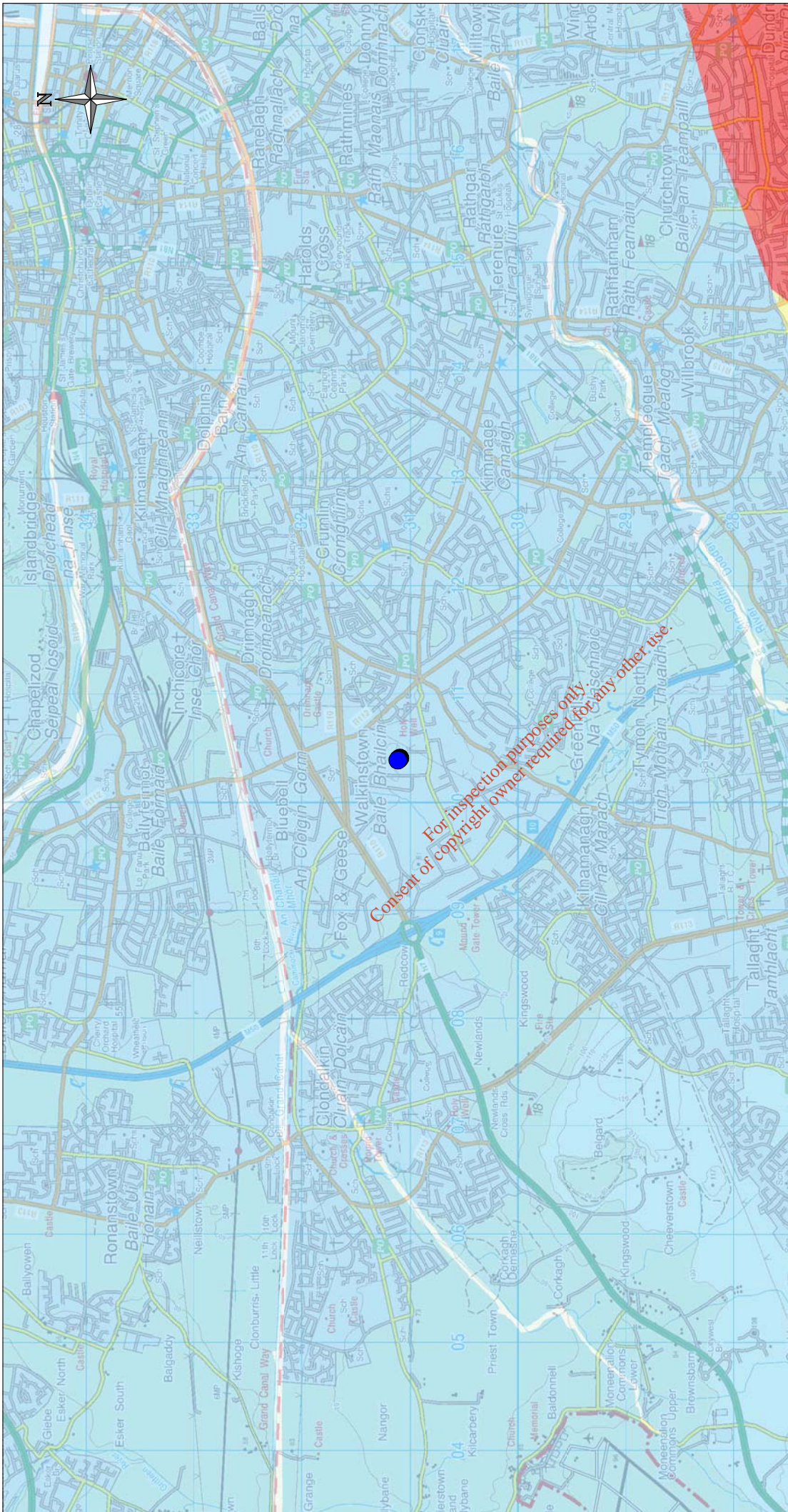


FIGURE No. **2.2**

SCALE **1:50,000**


Legend

- Site Location
- Calp Limestone
- Butter Mountain Formation
- Granite

CLIENT
Irish Packaging Recycling Ltd.

TITLE
Bedrock Geology

O' Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallaghmoran.com


 environmental management for business

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

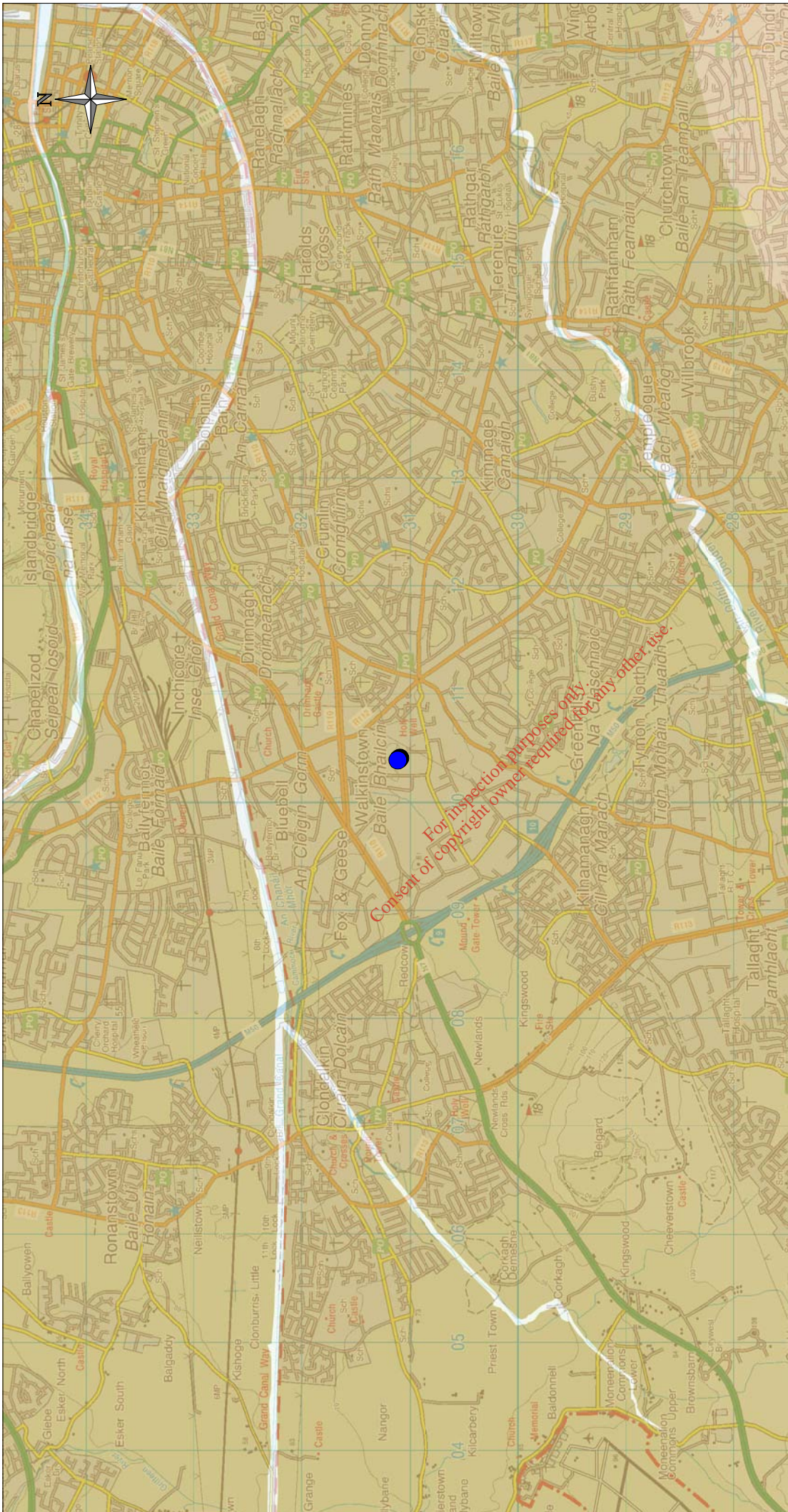


FIGURE No. **2.3**


SCALE **1:50,000**

Legend

- Site Location
- LI
- PI

CLIENT
Irish Packaging Recycling Ltd.

TITLE
Bedrock Aquifer



O'Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallagh Moran.com

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

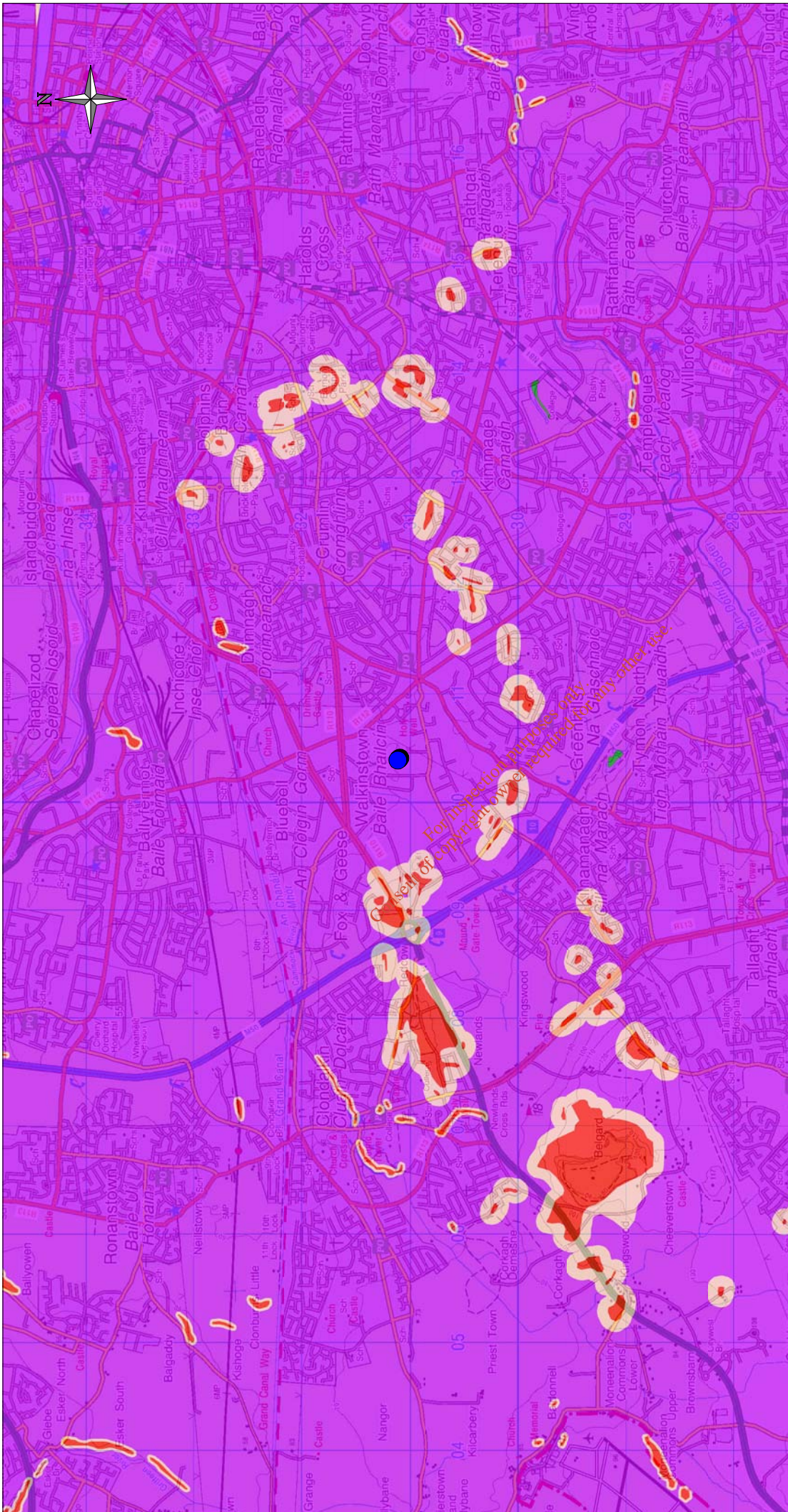


FIGURE No. **2.4**

SCALE **1:50,000**


Legend

- Site Location
- Extreme (rock near surface)
- Extreme
- High to Low

CLIENT
Irish Packaging Recycling Ltd.

TITLE
Aquifer Vulnerability

O'Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallaghanmoran.com


 environmental management for business

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

APPENDIX 3

Aerial Photograph

*For inspection purposes only.
Consent of copyright owner required for any other use.*



Approx. Site Location RED



O' Callaghan Moran & Associates,
 Granary House, Rutland Street,
 Cork Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : ocm@indigo.ie

CLIENT

IPR Ltd

TITLE

Surrounding
 Landuse

Details

O.S. Licence Agreement
 Number AR 0038702

Ordnance Survey Ireland.
 Government of Ireland.

Scale	Rev.
NTS	

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

APPENDIX 4

Emergency Response Plan

*For inspection purposes only.
Consent of copyright owner required for any other use.*

Master copy (in red)		SOP No.:01-008C-EMP	
		Revision:	1
		Page:	1 of 3
		Issued:	14 Mar 07
		By:	DN
Title: Emergency Response Procedure for Ballymount			

Prepared by: _____ **Date:** _____
Print Name Sign Name

Approved by: _____ **Date:** _____
Print Name Sign Name

1.0 Purpose:

The purpose of this SOP is to provide an emergency response method for dealing with emergencies

2.0 Responsibilities

The general manager has overall responsibility for this procedure.

The environmental department are responsible for ensuring that all relevant personnel are adequately trained in this procedure.

Employees trained in this procedure are responsible for complying with the requirements of the SOP and are responsible for ensuring that they can adequately respond to any emergency that may arise.

All managers and drivers are responsible for ensuring that vehicles and trailers/skips are maintained in a roadworthy condition at all times.

3.0 Definitions

3.1 SOP: Standard Operating Procedure

3.2 Emergency: For the purposes of this procedure an emergency shall constitute

- Spillage
- Fire/explosion
- Anything that might result in environmental pollution

Master copy (in red)		SOP No.:01-008C-EMP	
		Revision:	1
		Page:	2 of 3
		Issued:	14 Mar 07
		By:	DN
Title:		Emergency Response Procedure for Cappagh	

4.0 Procedure

4.1 *Waste spill*

1. If it is a liquid spillage use the spill kit provided to contain the spill if it is safe to do so.
2. Contact Panda Waste Services offices (Ph. No. 1850 65 65 65), with details of the spill including estimated quantity of waste
3. Clean-up will be arranged at the company offices. All relevant authorities will be notified from the company offices.
4. Do not leave the area until the supervisor has arrived.

4.2 *Fire/explosion*

1. Contact the fire services.
2. Contact Panda Waste Services offices (Ph. No. 1850 65 65 65). The office will arrange for a supervisor to go to the site immediately.
3. Use appropriate fire extinguisher if it is safe to do so.
4. Do not leave the area until PWS supervisor has arrived.

For inspection purposes only. No other use.
Consent of copyright owner required for any other use.

Master copy (in red)		SOP No.:01-008C-EMP	
		Revision:	1
		Page:	3 of 3
		Issued:	14 Mar 07
		By:	DN
Title:		Emergency Response Procedure for Cappagh	

4.3 *Anything that might result in environmental pollution*

If it is suspected that environmental pollution is being caused as a result of waste transportation

1. Stop what is being done immediately and
2. Notify the environmental Officer at Panda Waste Services (Ph. No. 1850 65 65 65).
3. The environmental officer will notify the relevant regulatory authorities if necessary.

5.0 Useful numbers

Brian M ^c Cabe (Panda Waste Services)	087-9978422
Peter Waters (Panda Waste Services)	086-8386979
Andrew Cullen (Panda Waste Services)	086-2676500
David Naughton	086-6045905
Dublin City Council	01-2224300
EPA	053-9160600
EPA Dublin	01-2680100

Emergency Services **999**

For inspection purposes only.
Consent of copyright owner required for any other use.