

Attachment C.1

Introduction

Greenport Environmental Ltd is a wholly owned subsidiary of Mr. Binman Limited. Mr Binman Ltd restructured the Management Team in 2008 to adapt to the business needs of the Company. Several new key appointments have been made to ensure growth of the business is managed in a sustainable manner, including the Greenport development referred to in this application. From an environmental perspective, Mr Binman appointed a Group Environment Manager to the Senior Management Team and his primary responsibility is to ensure the Company and all its subsidiaries operate in an environmentally responsible manner through implementation of sound environmental systems and addressing environmental issues at the highest management level. A Management Structure/Organisation Chart of Greenport Environmental Ltd is attached and a brief summary of the experience and qualifications of the relevant employees is described.

Martin Sheahan Jr. BSc. Env: Managing Director Mr Binman Ltd. /Project Leader for Greenport Development in Foynes

Martin qualified with a Degree in Environmental Science from the University of Limerick in 1998. Martin is responsible for the overall management of Mr. Binman Ltd and all its subsidiaries. Over the last 10 years, Martin Jr. has led the research and development division of the company and he is responsible for implementing innovative processes in waste recycling & waste management. In recent years he has changed the focus of the company from waste disposal to recovery and recycling and because of his vision; Mr. Binman is now one of the leading waste recycling companies in Ireland.

In the last four years Martin has travelled all over Europe and researched composting/biogasing/biodrying technologies all over Europe and North America. Martin has conducted pilot scale composting trials on six different composting technologies. In co-operation with leading technology providers in Ireland, Canada, Germany and the Netherlands, Martin has lead the development of the composting/biogas facility proposed in this application. Mr Binman is also a member of Cré, the Composting Association of Ireland.

As Project Leader, Martin will take a lead management role in the development and optimization of the facility referred to in this application.

Seamus Leahy, B.Sc., M.Sc. Env: Group Environmental Manager

Seamus qualified with a Degree in Science (Hons Chemistry) from University College Cork in 1994. He continued his training to complete an M.Sc. in Environmental Science from University College, Cork and completed a thesis related to Waste Management. He has 11 years experience in Environmental Operations and Waste Management at various levels including Environment Manager with Plaistow Ltd, Warner Lambert and Pfizer. Seamus joined Mr Binman Ltd/Greenport Environmental Ltd in 2007 as Group Environmental Manager with primary responsibility is to ensure all facilities are designed and operated in an environmentally responsible manner taking due consideration of all Waste Management Licence conditions and other applicable regulatory requirements.

This is achieved through implementation of sound environmental systems and addressing environmental issues at the highest management level.

For the proposed Greenport Environmental Ltd facility, Seamus has applied his significant experience in abatement control by ensuring the composting/biogas facility is fully enclosed and designed using the best available technology to ensure there are no discharges of environmental significance from the facility.

Seamus will ensure that the facility receives all the necessary regulatory approvals to operate in compliance with all relevant regulatory requirements including the EPA Licence and ABPR approval. He will also take a lead role in developing and implementing an environmental management system in line with all regulatory requirements.

Mark Sheahan, B.Sc.Env, Projects Manager

Mark has responsibility for Project Management with 6 years experience working at different levels with Mr. Binman Ltd. In 2008, Mark graduated from the University of Limerick with a B.Sc. in Environmental Science.

In the last four years Mark travelled all over Europe and researched composting/biogas/biodrying technologies all over Europe and North America. He has conducted pilot scale composting trials on six different composting technologies. In co-operation with leading technology providers in Ireland, Canada, Germany and the Netherlands, Mark has supported the development of the composting/biogas facility proposed in this application.

In 2008 Mark completed the Certificate in Compost Facility Operation through Sligo Institute of Technology in association with Fás and Cré, the Composting Association of Ireland. This is a comprehensive and practical course which provides all the relevant information required to operate composting facilities in compliance with all regulatory requirements. See attached course brochure.

As Projects Manager, Mark will play a key role in the development and optimization of the facility referred to in this application.

Kieran Kennedy Bsc. Health & Safety: Health and Safety Officer

Kieran qualified with a Degree in Health and Safety from the University of Limerick in 2009. Reporting to the Group HR and HS Manager, Kieran will be responsible for the implementation of the safety management program for Greenport Environment Ltd. Since 2005, Kieran has worked in different divisions of the Mr. Binman Greenport's parent company primarily as safety officer. As part of the development team for the Greenport, Kieran will work to identify safety requirements for the site and the implementation of the safety management system for the site.

Peter Murphy, Operations Supervisor/Environmental Officer

Peter completed a B.Sc. in Environmental Science with the University of Limerick in 2008, the degree covered issues such as environmental management, waste management and waste water management which are relevant to his current position. As part of the course he spent 8 months with Pratt & Whitney airlines Ireland (PWA), where he was responsible carrying out risk assessments and organising environmental monitoring for surface water, dust levels and stack emissions. In 2008, Peter joined Mr. Binman as Environmental Officer where he has responsibility for scheduling and implementing all environmental compliance monitoring to ensure 100% compliance. He set-up and managed the onsite environmental laboratory and was responsible for the control and optimisation of the WWTP, ensuring regularity monitoring for noise, dust, surface waste and ground water is carried out as per schedule and organising the analysis of waste products such as organic waste fines and refuse derived fuel.

Peter has recently completed a Certificate in Compost Facility Operation. This course provides practical knowledge on how to compost in compliance with all regulatory requirements and how to produce a high quality compost product. The course was developed by Cré, the Institute of Technology, Sligo and FÁS. Peter also completed a course on good laboratory practice in 2009, this course concentrated on lab accreditation covering issues such as calibration, documentation, validation and internal audits.

Peter's primary responsibilities will include

- Setting up and implementing the environmental management system in compliance with all regulatory requirements including standard operating procedures.
- Set up of the on-site laboratory
- Development of commissioning protocols, implementing operations and management systems in line with all regulatory requirements including HACCP plans and operating procedures.

Margaret Egan, B. Agr. Sc, Environmental Officer

Margaret Egan graduated from University College Dublin in 2002 with an honours Bachelor of Agricultural Science degree, specialising in Agricultural and Environmental Science. Margaret began working with Landfeeds Environmental a wholly owned Subsidiary of Advanced Environmental Solutions (A.E.S. (Ire) Ltd.) in April 2003, there she was responsible for reporting to county councils, soil sampling and mapping of landbanks. In December 2004, she was approached to join a newly formed company called Ormonde Organics Ltd. There she was responsible for the environmental management of organic sludges produced by mainly by waste water treatment plants, dairies and breweries. Within the company she was involved in developing alternatives to landspreading on agricultural land and improving current landspreading techniques.

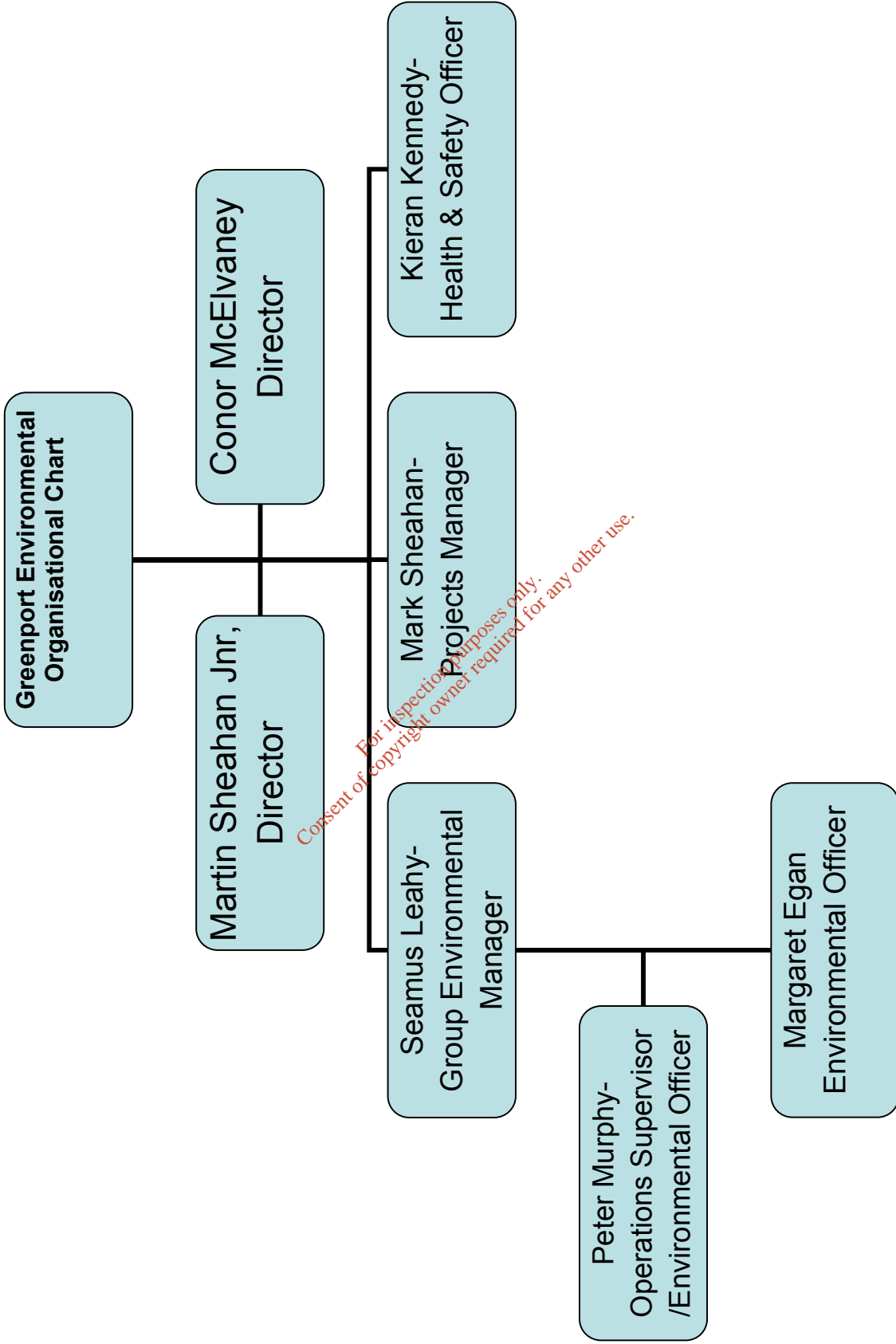
She was responsible the submission of proposals and sludge management plans to the EPA and relevant County Councils on behalf of customers.

Margaret joined Mr. Binman Ltd. in November 2005 as Environmental Officer. In 2006 Margaret gained a Certificate in Renewable Energy from the Tipperary Institute, Thurles, Co. Tipperary, this was a part time course run over one academic year. The course focused on renewable technologies and the business development of medium and large scale renewable energy projects.

In 2008 Margaret completed the Certificate in Compost Facility Operation through Sligo Institute of Technology in association with Cré and Fás, the Composting Association of Ireland. This is a comprehensive and practical course which provides all the relevant information required to operate composting facilities in compliance with all regulatory requirements.

With Greenport Environmental Ltd. Margaret will be responsible for development and implementation of the environmental management system with Peter Murphy Environmental Officer, in line with all regulatory requirements.

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Cré - Institute of Technology, Sligo – FÁS

Certificate in Compost Facility Operation

This course provides compost operators, regulators of facilities and anyone interested in starting a composting facility with the practical knowledge on how to compost properly, how to produce a high quality compost product and how to be compliant with all the regulations. To develop the best possible course, Cré teamed up with Institute of Technology, Sligo and FÁS.

Who should attend?

- ▶ **Facility Operators** – for use in process management. The operating principles described in the course are designed to assist operators be more efficient and save money as they manage day-to-day operations.
- ▶ **Planners and Decision Makers**- for use in understanding basic principles of compost facility operations. As planners and decision makers gain a better understanding of what is required for successful composting, they will be better equipped to support planning applications for compost facility projects.
- ▶ **Consultants and Designers**- for use in designing and assisting clients with the operation of their composting projects.
- ▶ **Regulators and Enforcement Agencies**- for use in understanding basic principles of compost facility operations, which will assist them in their role as regulators of compost facilities.



Training Course Content

Definitions and Biology of Composting

What is composting
What is compost

Understanding the basic biology and principles of composting

Composting Process

Tipping and receiving
Waste acceptance procedure
Suitable feedstocks
Feedstock preparation
Initial composting phase
Stabilisation and curing
Screening

Product testing & interpretation of results
Blending, storage and packaging

Composting Equipment and Technologies

Feedstock preparation equipment: shredders & mixers
Windrow turners
Aerated static pile composting systems
In-vessel composting systems
Screens

Health and Safety

Regulatory issues
Risk assessment
Monitoring and reporting

Potential Environmental Impacts & Mitigation

Odour
Dust and bioaerosols
Leachate
Surface water
Pests and vectors
Noise
Litter and Fire Control

Compliance with Regulatory Framework

Waste Permit
Waste Licence
Animal By-Product Licence
Certificate of Registration

Process Control

Techniques and technology
Moisture, oxygen and temperature
Quality assurance and quality control
HACCP for composting facilities
Compost testing parameters: field tests and laboratory testing
Troubleshooting issues and problems

Community Relations

Being a good neighbour
Working with the neighbours
Receiving and handling complaints
Communications
Tours, open houses, compost give-aways
Working with the media to get positive coverage

Compost Uses

QAS scheme
Types of products and potential uses
Value added products & their potential markets
Understand product quality from end user stand point

Facility Maintenance

Site: landscaping, utilities, hard standing
Compost system
Ancillary equipment
Environmental management systems

Course Development Steering Committee

To ensure the best possible course content, representatives from all the stakeholders in the industry formed an overall course development steering committee. Representatives from the following organisations were on the committee;

- ▶ Institute of Technology, Sligo
- ▶ Carlow County Council
- ▶ Galway City Council
- ▶ Veolia Environmental
- ▶ Cré – Composting Association of Ireland
- ▶ Fás
- ▶ Environmental Protection Agency
- ▶ Golder Associates
- ▶ Department of Environment, Heritage and Local Government

Launch of the Course



The course was launched by Josef Barth (Managing Director) of the European Compost Network.

Back row (L to R) Jerry Johnson (FÁS), Conor McGovern (Cré), Fiacra Quinn (Cré), Front row (L to R) - Peter Gavican (Institute of Technology Sligo), Bill Delaney (FÁS), Percy Foster (Cré) and Josef Barth (European Compost Network). Absent: Pat Keelan (FÁS)

Accreditation

The course has been accredited by the Institute of Technology, Sligo (under delegated authority from HETAC). The Course is entitled "**Certificate in Compost Facility Operation**" (Special Purpose Award Certificate, Level 6, 10 credits). This course is the first Special Purpose Award to be accredited by IT Sligo. It is equivalent to a 10 credit subject of a Higher Certificate in Science. Normally a Higher Certificate is taken over the first two years of full-time course in a third level institute and involves achieving a total of 120 credits.

A Special Purpose Award is designed for a course in a specialist subject area which is not a component subject of an existing academic programme and is insufficient in itself to justify a full award at Level 6 (Higher Certificate) or other levels.



The accreditation for this course is recognised nationally and internationally.



Trainers on the Course

The trainers of the course have practical experience in the compost industry. There are a wide range of trainers, who are each, a specialist in their own subject area. In addition to the trainers outlined below, there will be guest lecturers too.

Alistair Dunwoody is Site and Quality Manager at Natural World Product's (NWP) composting site in Keady. Alistair has three years experience of working in the composting industry in Northern Ireland. After initially working in the production side of the business he transferred to sales and marketing and has built an impressive sales portfolio of customers throughout Ireland. In 2005 demand for the NWP products outstripped supply. Alistair has been an integral part of the HACCP team for both ABP Approval of the site and continuing PAS100 certification of products. To date he has been successful in the development of new high value markets, has worked closely with WRAP to promote compost use and worked with the Composting Association to ensure PAS100 compliance. Alistair has a HND in Horticulture.

Craig Benton (Compost and Recycling Consultants Ireland) is an internationally recognised composting expert with over two decades of experience in the waste management industry. Having started his career by setting up the first Master Composter programme for the City of Seattle, Craig has worked as a consultant and compost system supplier helping to design, build and/or operate over 40 large scale composting facilities worldwide. As the founder of Celtic Composting Systems, he established the first in-vessel composting facility in Ireland at Ballinasloe for Galway County Council in 2002.

David Mullarkey (Institute of Technology Sligo) is a lecturer in Occupational Safety and Health (OSH). David has spent many years working in the public sector. He has operated a consultancy in OSH, training and food safety. He has a M.Sc. in Occupational Health and Ergonomics and is a Licentiate member of the Institute of Occupational Hygiene.

Dearbháil Ní Chualáin is a scientist at Bord na Móna's research facility. She has a degree in Biotechnology and is currently undertaking a research masters on composting. She has previously worked on research projects with Coillte. She researches composting of different materials including forestry, fish and garden material. She is responsible for developing and adapting new physical, chemical and microbial methods of analysis of composted material, setting up, monitoring and analysis of pilot schemes on composting different feedstocks.

Gerry Bird (OCAE Consultants) is an Agricultural Science graduate. He has worked with Bayer, as field trials and technical manager. He then commenced his own independent crop consultancy and field trials operation in 1986. He presently manages crops and landbank management on 9,000 ha of arable crops. He does contract field trials research on arable crops, amenity and forestry.

Kealan Reynolds (Environmental Protection Agency) is an inspector who regulates composting sites which have EPA waste licences.

Paula Neilan (Carlow County Council) is an inspector who regulates composting sites in county Carlow who have waste permits.

Percy Foster is the Executive Administrator of Cré – Composting Association of Ireland. His role is involves co-ordinating the affairs of the association, participation in projects such as the compost standard project and the development of training courses. Percy Foster has Master of Science degree (by research) in composting and market development and an honours degree in Environmental Science and Technology. Previous to this role in Cré, Percy has also acted as a consultant on projects examining the operation and the assessment of an in-vessel composting system, and a feasibility study and composting trial of farmyard manures.



Course

- ▶ It is proposed to deliver the course when there is sufficient demand for it.
- ▶ The course will last 6 days, comprising three blocks of 2 days over a period of time.
- ▶ The course will be held at Enfield Co. Kildare (Days 1 & 2), Athy, Co. Kildare Day 3 & 4) and (Day 5 & 6) Enfield Co. Kildare.
- ▶ It will be taught in classrooms and there will be site visits to a number of composting facilities such as a large green waste composting facility (windrow technology), a small green waste composting facility and two food waste composting facilities (In- vessel / Animal by Product Facilities).
- ▶ The students will write site visit reports, participate in group exercises and conduct a final exam.
- ▶ The course will be limited to a maximum of 30 students per course.
- ▶ The course will be provided and managed by Institute of Technology, Sligo on Cré's behalf.

Course Fee

The fee includes all manuals, tea breaks, lunches and travel from training centres to composting facilities.

The cost per student is €1,875. This is € 313 per day.

Grant aid from FAS maybe available for Private Sector (70%) and Local Authorities (50%) students thought the competency development scheme claim procedure to reduce the cost per student to €562.50 for private sector students and €937.50 for public sector participants. This funding is limited and is offered on a first come basis and on a case by case basis. Funding is subject to review on an annual basis by FÁS. Details on the grant aid will be explained to students by contacting Sarah Walsh (see below)

Registration

Please contact Sarah Walsh for details on registration, grant aid and payment procedures.

Cancellations

For those unable to attend, a substitute delegate may be sent at no additional cost. Regrettably no refunds for cancellations can be made.

For Further Information and Application Form

Ms. Sarah Walsh
Address: School of Science, Institute of Technology Sligo, Ballinode, Co. Sligo.
Email: walsh.sarah@itsligo.ie
Tel: 071-9137249
Fax: 071-9144174



This programme has been funded by the Irish Government and part financed by the European Union under the National Development Plan 2007-2013

Attachment C.2

Greenport Environmental Ltd will develop and implement an Environmental Management System (EMS) in accordance with the conditions of the waste licence once granted. The EMS will include the following:

- Management Structure
- Communications Programme
- Corrective Action Procedure
- Environmental Management Programme
- Schedule of Targets and Objectives
- Awareness and Training Procedures
- Document Control Procedures

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Attachment C.3

(a) Proposed Hours of Operation

Monday to Sunday: 0.00a.m. to 12.00.p.m.

(Composting process is a continuous operation conducted over a number of weeks so the facility is required to operate 24hours per day, 7 days per week)

(b) Proposed hours of waste acceptance

Monday to Saturday: 7.30a.m. to 6.00p.m.

Sundays and Bank holidays: 7.30a.m. to 6.00p.m. (when necessary, to accommodate exceptional waste collections – e.g. St Patricks Day Parade may prevent collections in particular areas on scheduled collection day, Christmas Day, etc)

Material suitable for composting must be delivered to the facility as soon as possible to ensure optimum recycling. The sources of this material may be operating during these hours, therefore similar waste acceptance hours are proposed

(c) Proposed hours of development or construction works at the facility

Monday to Saturday: 7.30a.m. to 6.30p.m.

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