

#### **ENVIRONMENTAL IMPACT STATEMENT**

#### **TABLE OF CONTENTS**

|      |  | PAGE |
|------|--|------|
| SEC  | TION 1 – INTRODUCTION  |      |
| 1.   | Introduction   | 1-1  |
| 1.1  | Preamble   | 1-1  |
| 1.2  | Exempted Planning Status   | 1-1  |
| 1.3  | The EU Waste Framework Directive (2008/98/EC)  | 1-5  |
| 1.4  | Environmental Impact Statement Legislation   | 1-6  |
| 1.5  | Structure and Content of the Environmental Impact Statement  | 1-6  |
| 1.6  | The Applicant  | 1-7  |
| 1.7  | Existing Waste Authorisation   | 1-8  |
| 1.8  | Site Selection and Alternatives  | 1-9  |
| 1.9  | Data Necessary to Identify and Assess Environmental  |      |
|      | Effects of Development   | 1-10 |
| 1.10 | Difficulties Compiling Specified Information   | 1-10 |
| 1.11 | Forecasting Methods Used to Assess the Effects 🞺   |      |
|      | on the Environment   | 1-10 |
| 1.12 | Contributors to the EIS  | 1-10 |
| 1.13 | Consultations  | 1-11 |
| 1.14 | Appropriate Assessment Screening   | 1-19 |
|      | 1.14.1 Background to Appropriate Assessment  | 1-19 |
|      | Forecasting Methods Used to Assess the Effects on the Environment Contributors to the EIS Consultations Appropriate Assessment Screening of Appropriate Assessment 1.14.1 Background to Appropriate Assessment 1.14.2 Findings of Appropriate Assessment Screening | 1-19 |
| APPE | ENDIX 1.14: Screening for Appropriate Assessment Report  |      |
|      | a sent C   |      |
| SECT | TION 2 – DESCRIPTION OF THE PROPOSED DEVELOPMENT   |      |
| 2.   | Description of the Proposed Development  | 2-1  |
| 2.1  | Site Location  | 2-1  |
| 2.2  | Land Ownership   | 2-3  |
| 2.3  | General Site Description and Surrounding land Use  | 2-4  |
| 2.4  | Site Infrastructure  | 2-9  |
|      | 2.4.1 Site Security Arrangements, Including Gates and Fencing  | 2-11 |
|      | 2.4.2 Design for Site Roads  | 2-11 |
|      | 2.4.3 Design of Hardstanding Areas   | 2-11 |
|      | 2.4.4 Plant, Site and Traffic Control  | 2-11 |
|      | 2.4.5 Refuelling of Machinery  | 2-12 |
|      | 2.4.6 Waste Inspection and Quarantine Areas  | 2-12 |
|      | 2.4.7 Sewerage Infrastructure  | 2-12 |
|      | 2.4.8 Surface Water Drainage System  | 2-12 |
|      | 2.4.9 Other Services and Site Accommodation  | 2-13 |
|      | 2.4.10 Plant Sheds, Garages and Equipment Compound   | 2-13 |
|      | 2.4.11 Fire Control System, Including Water Supply   | 2-13 |
|      | 2.4.12 Any Other Waste Recovery Infrastructure   | 2-13 |



|              |  | PAGE  |
|--------------|--|-------|
| 2.5          | Facility Operation   | 2-13  |
| 2.6          | Authorised Waste Activity – Existing and Proposed  | 2-14  |
| 2.7          | Waste Types – Existing and Proposed  | 2-14  |
| 2.8          | Waste Quantities to be Recovered   | 2-15  |
| 2.9          | Waste Acceptance Procedures  | 2-15  |
| 2.10         | On-Site Waste Handling   | 2-16  |
| 2.11         | Soil Recovery Method   | 2-16  |
| 2.12         | Hours of Operation   | 2-17  |
| 2.13         | Waste Arising  | 2-23  |
| 2.14         | Raw Materials, Substances, Preparations and Energy   | 2-23  |
| 2.15         | Energy Efficiency  | 2-23  |
| 2.16         | Technical Competence and Site Management   | 2-24  |
| 2.17         | Accident Prevention and Emergency Response   | 2-25  |
| 2.18         | Environmental Nuisances  | 2-27  |
|              | 2.18.1 Bird Control  | 2-27  |
|              | 2.18.2 Dust Control  | 2-28  |
|              | 2.18.3 Fire Control  | 2-28  |
|              | 2.18.4 Litter Control  | 2-28  |
|              | 2.18.5 Traffic Control   | 2-28  |
|              | 2.18.6 Vermin Control  | 2-28  |
|              | 2.18.7 Road Cleansing  | 2-28  |
| 2.19         | 2.18.4 Litter Control 2.18.5 Traffic Control 2.18.6 Vermin Control 2.18.7 Road Cleansing Phasing, Remediation, Decommissioning Restoration and Aftercare | 2-29  |
| 2.20         | Justification of the Activity as a Recovery Activity for the Consequential   |       |
|              | Benefit to Agriculture   | 2-31  |
|              | ION 3 – THE EXISTING ENVIRONMENTAL IMPACTS MITIGATION MEASURES   | S,    |
| 3.1          | SUMMARY OF SCOPING OF EMISSIONS AND POTENTIAL  |       |
|              | ENVIRONMENTAL IMPACTS  |       |
| 3.1.1        | Introduction   | 3.1-1 |
| 3.1.2        | Sources of Information for Scoping   | 3.1-1 |
| 3.1.3        | Summary of Scoping   | 3.1-1 |
| 3.1.4        | Emissions and Potential Impacts from the Recovery Activity   | 3.1-3 |
| 3.2          | FLORA AND FAUNA  |       |
| 3.2.1        | Introduction   | 3.2-1 |
| 3.2.2        | Existing Environment   | 3.2-2 |
|              | 3.2.2.1 Appropriate Assessment Screening   | 3.2-2 |
|              | 3.2.2.2 Findings of Appropriate Assessment Screening   | 3.2-3 |
| 3.2.3        | Potential Environmental Impacts  | 3.2-4 |
| 3.2.4        | Mitigation Measures  | 3.2-5 |
| 3.2.5        | Conclusions  | 3.2-6 |
| <b>Apper</b> | ndix 3.2: Ecological Assessment Report – January 2009 and June 2005  |       |



|       |   | PAGE           |
|-------|---|----------------|
| 3.3   | WATER   |                |
| 3.3.1 | Introduction  | 224            |
| 3.3.1 | Introduction Study Methodology  | 3.3-1<br>3.3-1 |
|       | ,   | 3.3-1<br>3.3-1 |
| 3.3.3 | Existing Surface Water Environment  |                |
| 3.3.4 | Potential Environmental Impacts   | 3.3-3          |
| 3.3.5 | Mitigation Measures and Monitoring  | 3.3-4          |
| Appen | dix 3.3: Water Monitoring Results for 2008 and 2012                                       |                |
| 3.4   | AIR QUALITY AND DUST  |                |
| 3.4.1 | Introduction  | 3.4-1          |
| 3.4.2 | Existing Environment  | 3.4-1          |
|       | 3.4.2.1 Dust Monitoring Results   | 3.4-1          |
|       | 3.7.2.1.1 Scope of Dust Survey  | 3.4-1          |
|       | 3.7.2.1.2 Survey Approach   | 3.4-3          |
|       | 3.7.2.1.2 Dust Survey Results   | 3.4-3          |
| 3.4.3 | 3.7.2.1.2 Dust Survey Results  Assessment of Impacts from Dust  3.4.3.1 Potential Impacts | 3.4-4          |
|       | 3.4.3.1 Potential Impacts   | 3.4-4          |
|       | 3.4.3.2 Environmental Assessment of Dust Monitoring                                       | 3.4-5          |
| 3.4.4 | Mitigation Measures  Monitoring  div 2 to Proof Maritaging Laboratoring                   | 3.4-4          |
| 3.4.5 | Monitoring  | 3.4-7          |
| Appen | dix 3.4: Dust Monitoring Laboratory Results   |                |
|       | Mitigation Measures  Monitoring dix 3.4: Dust Monitoring Laboratory Results               |                |
| 3.5   | dix 3.4: Dust Monitoring Laboratoric Results  NOISE  Introduction Existing Environment    |                |
| 0.5.4 | John dusking Septice  | 0.5.4          |
| 3.5.1 | Introduction  | 3.5-1          |
| 3.5.2 | <u> </u>  | 3.5-1          |
| 3.5.3 | Potential Impacts from Noise  | 3.5-2          |
| 3.5.4 | Noise Monitoring Results  | 3.5-3          |
| 3.5.5 | Mitigation Measures   | 3.5-5          |
| 3.5.6 | Monitoring  | 3.5-5          |
| 3.5.7 | Conclusions   | 3.5-6          |
| Appen | dix 3.5 Noise Assessment Report (January 2009)  |                |
| 3.6   | HYDROGEOLOGY – GEOLOGY, GROUNDWATER AND SOILS   |                |
| 3.6.1 | Introduction  | 3.6-1          |
| 3.6.2 | Existing Environment  | 3.6-1          |
|       | 3.6.2.1 Introduction  | 3.6-1          |
|       | 3.6.2.2 Bedrock   | 3.6-2          |
|       | 3.6.2.3 Bedrock Aquifer Classification and Groundwater Vulnerability                      | 3.6-2          |
|       | 3.6.2.4 Soils   | 3.6-4          |
| 3.6.3 | Potential Impacts   | 3.6-5          |
| 3.6.4 | Mitigation Measures   | 3.4-6          |
| 3.6.5 | Conclusions   | 3.6-8          |



|        |   | PAGE   |
|--------|---|--------|
| 3.7    | CULTURAL HERITAGE   |        |
| 3.7.1  | Introduction  | 3.7-1  |
| 3.7.2  | Existing Environment  | 3.7-2  |
|        | 3.7.2.1 Sites and Monuments Records – Archaeological Interest                     | 3.7-2  |
|        | 3.7.2.2 Built Heritage  | 3.7-5  |
|        | 3.7.2.3 Cultural Heritage   | 3.7-5  |
| 3.7.3  | Assessment of Potential Impacts   | 3.7-6  |
| 3.7.4  | Mitigation Measures   | 3.7-6  |
| 3.8    | HUMAN BEINGS AND MATERIAL ASSETS  |        |
| 3.8.1  | Introduction  | 3.8-1  |
| 3.8.2  | Existing Environment  | 3.8-2  |
| 3.8.3  | Assessment of Potential Impacts   | 3.8-6  |
| 3.8.4  | Mitigation Measures   | 3.8-8  |
| 3.9    | Introduction Existing Environment Phasing, Remediation, Restoration and Aftercare |        |
| 3.9.1  | Introduction and and and and and and and and and an                               | 3.9-1  |
| 3.9.2  | Existing Environment  | 3.9-2  |
| 3.9.3  | Phasing, Remediation, Restoration and Aftercare                                   | 3.9-7  |
| 3.9.4  | Assessment of Impacts Upon Landscape  | 3.9-11 |
| 3.9.5  | Mitigation Measures   | 3.9-14 |
| 3.10   | WITED A OTION OF THE EGNEGOWIO  |        |
| 3.10.1 | General Charles   | 3.10-1 |
| SECT   | ION 4 – NON-TECHNICAL SUMMARY   |        |
| 4.1    | Introduction  | 4-3    |
| 4.2    | Summary of Site Activities  | 4-5    |
|        | 4.2.1 Principal Elements  | 4-5    |
|        | 4.2.2 Site Infrastructure and Operations  | 4-6    |
|        | 4.2.3 Emissions and Potential Impacts from the Recovery Activity                  | 4-8    |
|        | 4.2.4 Environmental Monitoring  | 4-8    |
| 4.3    | Flora and Fauna   | 4-9    |
| 4.4    | Surface Water   | 4-9    |
| 4.5    | Air Quality and Dust  | 4-10   |
| 4.6    | Noise   | 4-12   |
| 4.7    | Hydrogeology – Geology, Groundwater and Soils                                     | 4-12   |
| 4.8    | Cultural Heritage   | 4-13   |
| 4.9    | Human Beings and Material Assets  | 4-14   |
| 4.10   | Landscape and Visual Assessment   | 4-16   |
| 4.11   | Interaction of the Foregoing  | 4-18   |







## SECTION 1: INTRODUCTION

#### **CONTENTS**

| 1.   | Introduction   | 1-1  |
|------|--|------|
| 1.1  | Preamble   | 1-1  |
| 1.2  | Exempted Planning Status   | 1-1  |
| 1.3  | The EU Waste Framework Directive (2008/98/EC)  | 1-5  |
| 1.4  | Environmental Impact Statement Legislation   | 1-6  |
| 1.5  | Structure and Content of the Environmental Impact Statement  | 1-6  |
| 1.6  | The Applicant  | 1-7  |
| 1.7  | Existing Waste Authorisation   | 1-8  |
| 1.8  | Site Selection and Alternatives  | 1-9  |
| 1.9  | Data Necessary to Identify and Assess Environmental  |      |
|      | Effects of Development   | 1-10 |
| 1.10 | Difficulties Compiling Specified Information   | 1-10 |
| 1.11 | Difficulties Compiling Specified Information Forecasting Methods Used to Assess the Effects on the Environment   |      |
|      | on the Environment   | 1-10 |
| 1.12 | Contributors to the EIS  | 1-10 |
| 1.13 | on the Environment Contributors to the EIS Consultations Appropriate Assessment Screening of the Environment of the Eign of th | 1-11 |
| 1.14 | Appropriate Assessment Screening   | 1-19 |
|      | 1.14.1 Background to Appropriate Assessment  | 1-19 |
|      | 1.14.2 Findings of Appropriate Assessment Screening  | 1-19 |
|      | Y (A)  |      |

APPENDIX 1.14: Screening for Appropriate Assessment Report



# SECTION 2 — DESCRIPTION OF THE PROPOSED DEVELOPMENT



## SECTION 2 – DESCRIPTION OF THE PROPOSED DEVELOPMENT

| $\sim$ | 14/ | TC | NI | TC |
|--------|-----|----|----|----|
| υl     | JΝ  |    | IN | TS |

| 2.   | Descr          | iption of the Proposed Development  | 2-1  |  |
|------|----------------|---|------|--|
| 2.1  | Site Lo        | ocation   | 2-1  |  |
| 2.2  | Land Ownership |   |      |  |
| 2.3  | Gener          | al Site Description and Surrounding land Use  | 2-4  |  |
| 2.4  | Site In        | frastructure  | 2-9  |  |
|      | 2.4.1          | Site Security Arrangements, Including Gates and Fencing                                     | 2-11 |  |
|      | 2.4.2          | Design for Site Roads   | 2-11 |  |
|      | 2.4.3          | Design of Hardstanding Areas  | 2-11 |  |
|      | 2.4.4          | Plant, Site and Traffic Control   | 2-11 |  |
|      | 2.4.5          | Refuelling of Machinery   | 2-12 |  |
|      | 2.4.6          | Waste Inspection and Quarantine Areas   | 2-12 |  |
|      | 2.4.7          | Sewerage Infrastructure   | 2-12 |  |
|      | 2.4.8          | Sewerage Infrastructure Surface Water Drainage System Other Services and Site Accommodation | 2-12 |  |
|      | 2.4.9          | Other Services and Site Accommodation   | 2-13 |  |
|      | 2.4.10         | Plant Sheds, Garages and Equipment Compound   | 2-13 |  |
|      | 2.4.11         | Fire Control System, Including Water Supply   | 2-13 |  |
|      | 2.4.12         | Any Other Waste Recovery Infrastructure   | 2-13 |  |
| 2.5  | Facilit        | y Operation   | 2-13 |  |
| 2.6  | Autho          | rised Waste Activity – Existing and Proposed  | 2-14 |  |
| 2.7  | Waste          | Types – Existing and Proposed   | 2-14 |  |
| 2.8  | Waste          | Quantities to be Recovered  | 2-15 |  |
| 2.9  | Waste          | Acceptance Procedures   | 2-15 |  |
| 2.10 | On-Sit         | e Waste Handling  | 2-16 |  |
| 2.11 | Soil R         | ecovery Method  | 2-16 |  |
| 2.12 | Hours          | of Operation  | 2-17 |  |
| 2.13 | Waste          | Arising   | 2-23 |  |
| 2.14 | Raw M          | laterials, Substances, Preparations and Energy  | 2-23 |  |
| 2.15 | Energy         | y Efficiency  | 2-23 |  |
| 2.16 | Techn          | ical Competence and Site Management   | 2-24 |  |
| 2.17 | Accide         | ent Prevention and Emergency Response   | 2-25 |  |
| 2.18 | Enviro         | nmental Nuisances   | 2-27 |  |
|      | 2.18.1         | Bird Control  | 2-27 |  |
|      | 2.18.2         | Dust Control  | 2-28 |  |
|      | 2.18.3         | Fire Control  | 2-28 |  |
|      | 2.18.4         | Litter Control  | 2-28 |  |
|      | 2.18.5         | Traffic Control   | 2-28 |  |
|      | 2.18.6         | Vermin Control  | 2-28 |  |
|      | 2.18.7         | Road Cleansing  | 2-28 |  |
| 2.19 | Phasir         | ng, Remediation, Decommissioning, Restoration and Aftercare                                 | 2-29 |  |
| 2.20 | Justifi        | cation of the Activity as a Recovery Activity for the Consequential                         |      |  |
|      | Benefi         | t to Agriculture  | 2-31 |  |



## SECTION 3 — THE EXISTING ENVIRONMENT, ENVIRONMENTAL IMPACTS, AND MITIGATION MEASURES



## SECTION 3.1 SUMMARY OF SCOPING OF EMISSIONS AND POTENTIAL ENVIRONMENTAL IMPACTS

| 3.1.1 | Introduction   | 3.1-1 |
|-------|--|-------|
| 3.1.2 | Sources of Information for Scoping                         | 3.1-1 |
| 3.1.3 | Summary of Scoping   | 3.1-1 |
| 3.1.5 | Emissions and Potential Impacts from the Recovery Activity | 3.1-3 |

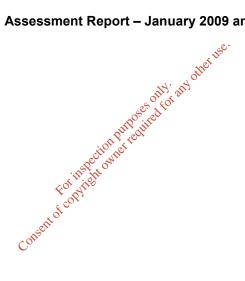




#### **SECTION 3.2: FLORA AND FAUNA**

| 3.2.1 | Introduction   | 3.2-1 |
|-------|--|-------|
| 3.2.2 | Existing Environment                                 | 3.2-2 |
|       | 3.2.2.1 Appropriate Assessment Screening             | 3.2-2 |
|       | 3.2.2.2 Findings of Appropriate Assessment Screening | 3.2-3 |
| 3.2.3 | Potential Environmental Impacts                      | 3.2-4 |
| 3.2.4 | Mitigation Measures                                  | 3.2-5 |
| 3.2.5 | Conclusions  | 3.2-6 |

Appendix 3.2: Ecological Assessment Report – January 2009 and June 2005





## SECTION 3.3: WATER

| 3.3.1 | Introduction                       | 3.3-1 |
|-------|------------------------------------|-------|
| 3.3.2 | Study Methodology                  | 3.3-1 |
| 3.3.3 | Existing Surface Water Environment | 3.3-1 |
| 3.3.4 | Potential Environmental Impacts    | 3.3-3 |
| 3.3.5 | Mitigation Measures and Monitoring | 3.3-4 |

Appendix 3.3: Water Monitoring Results for 2008 and 2012





#### **SECTION 3.4: AIR QUALITY & DUST**

| 3.4.1  | Introduction   | 3.4-1 |  |
|--|--|-------|--|
| 3.4.2 Existing Environment   |  | 3.4-1 |  |
|  | 3.4.2.1 Dust Monitoring Results  | 3.4-1 |  |
|  | 3.7.2.1.1 Scope of Dust Survey   | 3.4-1 |  |
|  | 3.7.2.1.2 Survey Approach  | 3.4-3 |  |
|  | 3.7.2.1.2 Dust Survey Results  | 3.4-3 |  |
| 3.4.3  | Assessment of Impacts from Dust  | 3.4-4 |  |
|  | 3.4.3.1 Potential Impacts  | 3.4-4 |  |
|  | 3.4.3.2 Environmental Assessment of Dust Monitoring  | 3.4-5 |  |
| 3.4.4  | Mitigation Measures  | 3.4-4 |  |
| 3.4.5 Monitoring 3.4- Appendix 3.4: Dust Monitoring Laboratory Results Appendix 3.4: |  |       |  |
|  | Mitigation Measures Monitoring  dix 3.4: Dust Monitoring Laboratory Results Heading the Results Heading the Results Heading to the Results Heading |       |  |



#### **SECTION 3.5: NOISE**

#### **CONTENTS**

| 3.5.1 | Introduction                 | 3.5-1 |
|-------|------------------------------|-------|
| 3.5.2 | Existing Environment         | 3.5-1 |
| 3.5.3 | Potential Impacts from Noise | 3.5-2 |
| 3.5.4 | Noise Monitoring Results     | 3.5-3 |
| 3.5.5 | Mitigation Measures          | 3.5-5 |
| 3.5.6 | Monitoring                   | 3.5-5 |
| 3.5.7 | Conclusions                  | 3.5-6 |

Appendix 3.5 Noise Assessment Report (January 2009)





#### SECTION 3.6: HYDROGEOLOGY – GEOLOGY, GROUNDWATER AND SOILS

| 3.6.1 | Introduction   | 3.6-1 |
|-------|--|-------|
| 3.6.2 | Existing Environment   | 3.6-1 |
|       | 3.6.2.1 Introduction   | 3.6-1 |
|       | 3.6.2.2 Bedrock  | 3.6-2 |
|       | 3.6.2.3 Bedrock Aquifer Classification and Groundwater Vulnerability   | 3.6-2 |
|       | 3.6.2.4 Soils  | 3.6-4 |
| 3.6.3 | Potential Impacts  | 3.6-5 |
| 3.6.4 | Mitigation Measures  | 3.4-6 |
| 3.6.5 | Conclusions  | 3.6-8 |
|       | gurgos es only and e   |       |
|       | Mitigation Measures Conclusions  Conclusions  Consent of Conference of the Frank Product of the Product of Conference of the Conference of |       |
|       | Consent of Co  |       |
|       |  |       |



#### SECTION 3.7: CULTURAL HERITAGE

| 3.7.1 | Introduction  | 3.7-1 |
|-------|---|-------|
| 3.7.2 | Existing Environment  | 3.7-2 |
|       | 3.7.2.1 Sites and Monuments Records – Archaeological Interest | 3.7-2 |
|       | 3.7.2.2 Built Heritage  | 3.7-5 |
|       | 3.7.2.3 Cultural Heritage                                     | 3.7-5 |
| 3.7.3 | Assessment of Potential Impacts                               | 3.7-6 |
| 3.7.4 | Mitigation Measures   | 3.7-6 |





#### SECTION 3.8: HUMAN BEINGS AND MATERIAL ASSETS

| 3.8.1 | Introduction                    | 3.8-1 |
|-------|---------------------------------|-------|
| 3.8.2 | Existing Environment            | 3.8-2 |
| 3.8.3 | Assessment of Potential Impacts | 3.8-6 |
| 3.8.4 | Mitigation Measures             | 3.8-8 |





#### SECTION 3.9: LANDSCAPE AND VISUAL ASSESSMENT

| 3.9.1 | Introduction                                    | 3.9-1  |
|-------|---|--------|
| 3.9.2 | Existing Environment                            | 3.9-2  |
| 3.9.3 | Phasing, Remediation, Restoration and Aftercare | 3.9-7  |
| 3.9.4 | Assessment of Impacts Upon Landscape            | 3.9-11 |
| 3.9.5 | Mitigation Measures                             | 3.9-14 |





### SECTION 3.10: INTERACTION OF THE FOREGOING

#### **CONTENTS**

3.10.1 General 3.10-1





## SECTION 4 – NON-TECHNICAL SUMMARY

Consent of copyright outlet required for they or