



**APPLICATION FOR AN ENVIRONMENTAL PERMIT  
VARIATION UNDER THE ENVIRONMENTAL  
PERMITTING (ENGLAND AND WALES)  
REGULATIONS 2016 (AS AMENDED)**

**NOISE AND VIBRATION MANAGEMENT PLAN**



**NEVILL'S DOCK, LLANELLI,  
CARMARTHENSHIRE, SA15 2HD**

**ECL Ref: ECL.008.01.04/NVMP  
Version: Issue 1  
November 2019**

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## ACRONYMS / TERMS USED IN THIS REPORT

<b>AMG</b>	<b>AMG Resources Limited</b>
<b>BREF</b>	<b>Best Available Techniques Reference</b>
<b>CCTV</b>	<b>Closed-Circuit Television</b>
<b>ECL</b>	<b>Environmental Compliance Limited</b>
<b>EA</b>	<b>Environment Agency</b>
<b>EMS</b>	<b>Environmental Management System</b>
<b>EP</b>	<b>Environmental Permit</b>
<b>NRW</b>	<b>Natural Resources Wales</b>
<b>NVMP</b>	<b>Noise and Vibration Management Plan</b>
<b>PPMR</b>	<b>Planned Preventative Maintenance Regime</b>

## 1. INTRODUCTION

### 1.1. Requirement for a Noise and Vibration Management Plan

- 1.1.1. As part of AMG Resources Limited (“AMG”) application to vary the conditions of its existing Environmental Permit (“EP”) EPR/BM2381IQ, Environmental Compliance Limited (“ECL”) has been commissioned by AMG to produce a Noise and Vibration Management Plan (“NVMP”) which will form part of AMG’s Environmental Management System (“EMS”).
- 1.1.2. AMG wish to vary their existing permit to undertake a Specified Waste Operation –‘Non Hazardous Physical Treatment’, in addition to the existing 2.2. Scheduled Activity at their Llanelli Site, hereafter referred to as ‘the Installation’.
- 1.1.3. As part of the variation, AMG propose to accept 5 waste types which are to be baled and sent off-site for recycling.
- 1.1.4. The possibility of noise and vibration emissions arising from the Specified Waste Operation only has been addressed in this plan and associated mitigation measures are provided.
- 1.1.5. As the operational process is to be a simple baling operation, it is considered that noise levels should not exceed unacceptable levels. It should also be noted that the proposed activities will produce significantly less noise emissions than the previous machinery and processing which was undertaken on site, for example, the shredder and magnetic separator will not be in operation and there will be far fewer movements of site vehicles and plant, as well as transportation vehicles entering and leaving site. No new equipment is proposed as part of this variation.
- 1.1.6. It is anticipated that the sound levels previously assessed under the existing 2.2. Activity are much greater than those anticipated under the proposed Specified Waste Operation. In the circumstance that the 2.2. Activity recommences, a noise assessment will be completed to take account of both the new plant and equipment as part of the 2.2. Activity, in addition to the Specified Waste Operation.
- 1.1.7. This NVMP has been written to meet the requirements of the *Waste Treatments Best Available Techniques Reference Document (“BREF”)* (October 2018), NRW guidance document ‘*How to comply with your environmental permit*’ (Version 8, October 2014) and Environment Agency (“EA”) Sector Guidance Note IPPC S5.06 ‘*Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste*’ (Issue 5, 2013).
- 1.1.8. This NVMP addresses the following issues:
- the materials and/or activity which could produce noise emissions;
  - identification of potential sensitive receptors;
  - process controls and procedures;
  - potential corrective actions; and
  - record keeping.

- 
- 1.1.9. The NVMP provides information on the potential noise emissions impacts from the Installation and the mitigation measures to be implemented. These measures are linked to the Installation's EMS and will include operational and control measures for normal, as well as abnormal conditions.
- 1.1.10. The NVMP also provides a management framework comprising of proactive and reactive measures to manage and control potential fugitive noise releases from the Installation. This proactive approach will facilitate the ongoing development of operational procedures and controls as part of an on-going commitment to improving environmental performance. Reactive procedures will also be established within the NVMP for the logging, evaluation and implementation of corrective actions in the unlikely event of any noise and vibration related complaints being received. A noise survey will be conducted if necessary.

## 2. DESCRIPTION OF THE SITE AND PROCESS

### 2.1. Site Location and Setting

- 2.1.1. The Installation is located at Nevill's Dock, Llanelli, SA15 2HD, and is centred on National Grid Reference 250504 198981.
- 2.1.2. The Installation is situated within a predominantly residential area to the east and north, with Pen Rhos Primary School adjacent to the Installation, and ongoing building developments for future housing in close proximity. Access to the site is from New Dock Road (B4304) located to the south and east of the site.
- 2.1.3. The exact location of the Installation, including the site boundary outlined in green, is indicated on the Site Location Plan (Drawing Reference ECL.008.01.04-001), which is contained within Appendix I of this document. The proposed Specified Waste Operation will be located in a discrete area on the Installation site occupying an area of approximately 1 hectare. The boundary of the proposed Specified Waste Operation is outlined in red on the Site Layout Plan (Drawing Reference ECL.008.01.04-002), which is contained in Appendix I of this document.

### 2.2. Description of the Process

- 2.2.1. The current 2.2 Listed Activity under Schedule 1 of the Environmental Permitting (England and Wales) Regulations 2016 as amended is detailed in Table 1.

**Table 1: Schedule 1 Activities**

Activity Reference	Activity listed in Schedule 1 of the EP Regulations	Description of Specified Activity	Limits of Specified Activity
<b>Listed Activity</b>			
A1	S2.2. A(1)(a)	Producing non-ferrous metals from secondary raw materials by metallurgical, chemical or electrolytic activities.	Chemical treatment of scrap metals and cans and electrolyte recovery of tin following electrolysis.

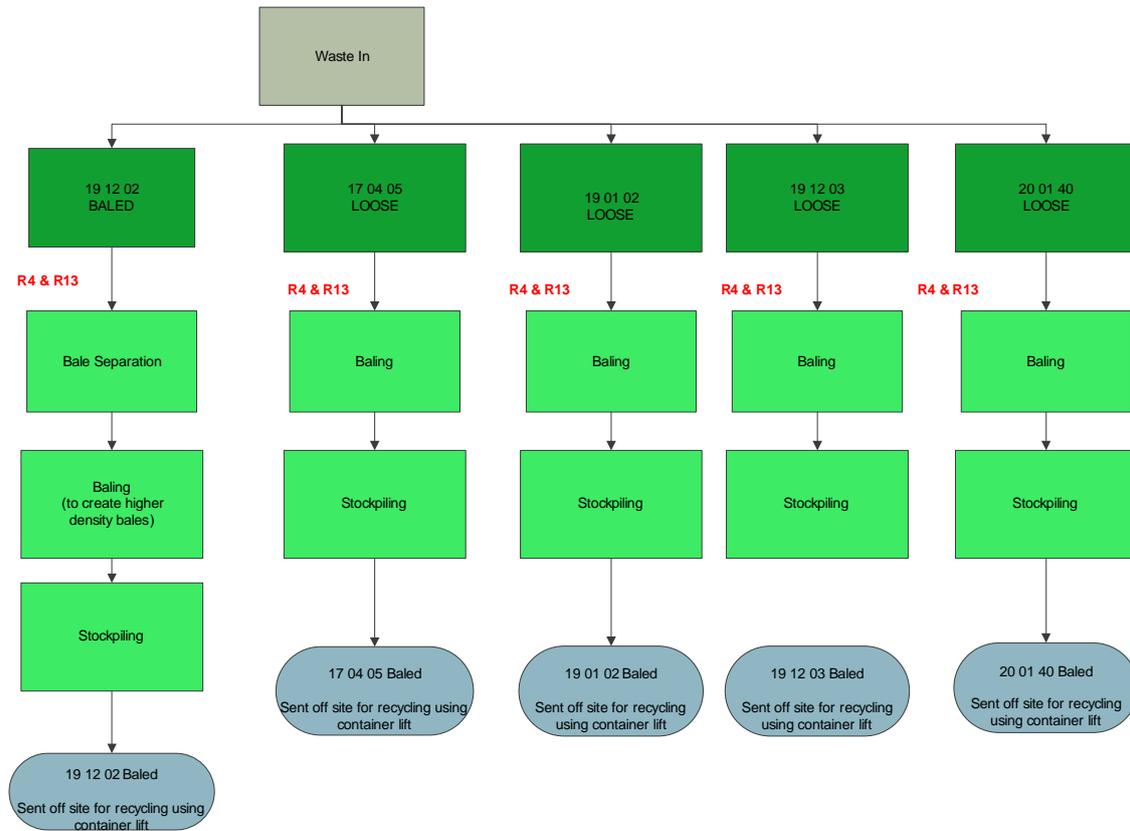
- 2.2.2. In addition to the existing 2.2. Activity, AMG Resources is proposing to undertake a Specified Waste Operation – Non Hazardous Physical Treatment. This will involve the acceptance of 5 waste codes detailed in Table 2 with an estimated throughput of 47,000 tonnes per annum.

**Table 2: Proposed Waste Codes to be Accepted at the Installation**

Waste Code	Description
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
<b>17 04</b>	<b>Metals (including their alloys)</b>
17 04 05	Iron and Steel
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTE TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>
<b>19 01</b>	<b>Wastes from incineration or pyrolysis of waste</b>
19 01 02	Ferrous materials removed from bottom ash
<b>19 12</b>	<b>Waste from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 02	Ferrous metal
19 12 03	Non-ferrous metals
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>Separately collected fractions (except 15 01)</b>
20 01 40	Metals

- 2.2.3. An overview of the proposed activities is provided in Figure 1 and the Site Layout Plan (Drawing Reference ECL.008.01.04-002) is provided in Appendix I of this document.

Figure 1: Process Flow Diagram



2.2.4. The main operations will be as follows:

- separation;
- baling; and
- storage of baled material prior to lifting into containers for dispatch.

2.2.5. The main equipment and plant to be used on site will be as follows:

- Birim Makina Tiger Baler;
- Manitou Fork Lift;
- JCB 926;
- CAT 318;
- CAT 962 Front end loader;
- Skylift;
- A-Ward Container lifter; and
- CAT 932 crane.

### **3. POTENTIAL SOURCES**

#### **3.1. Potential Sources of Noise and Vibration Emissions**

3.1.1. The potential sources of noise and vibration emissions from the site include:

- movement of transport vehicles into and out of site;
- separation and sorting of waste;
- external contractor vehicles when tipping of waste materials which can give rise to beeping during reversing, intermittent for 10-20 seconds as required for the health and safety of personnel.
- baling; and
- loading of finished bales using a container lift and the exportation from site.

## 4. POTENTIAL SENSITIVE RECEPTORS

### 4.1. Considerations for Identifying Sensitive Receptors

- 4.1.1. To determine the severity of noise nuisance which may arise from the Installation, the sensitivity of the receiving environment and potential receptors must be considered.
- 4.1.2. The degree of sensitivity in a particular location is based on the characteristics of the land use, including the reason why people are at the particular location (e.g. for work, recreation or residence). It is influenced by the meteorological conditions at the site and surrounding area. Additionally, the degree of sensitivity depends on the distance from the noise and vibration source as the closer the receptor is to the source, the higher the nuisance will be at the location.
- 4.1.3. A summary of the immediate environmental setting is provided in Table 3. Potential sensitive receptors within a 1km radius of the EP boundary are shown on the Sensitive Receptors Plan (Drawing Reference ECL.008.01.04-003), which is contained within Appendix I. It can be seen that the nearest receptors are local residents and also pupils, teachers and visitors to Pen Rhos Primary school and nearby industrial sites. These receptors are considered most likely to be affected by any noise arising from the Installation due to their proximity to the site and the associated land uses.

**Table 3: Surrounding Land Uses**

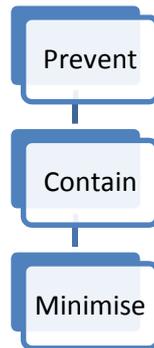
<b>Boundary</b>	<b>Description</b>
North	Ysgol Pen Rhos Primary School, residential areas, small recreational parks
East	Predominantly residential areas.
South	New Dafen River, a small industrial area, woodland and golf course and small residential areas adjacent to the Loughor estuary and Machynys Ponds.
West	Burry Inlet and Loughor Estuary, North Dock Dunes.

## 5. OPERATIONAL AND PROCESS CONTROLS

### 5.1. Noise and Vibration Management Strategy

- 5.1.1. AMG’s NVMP strategy is to prevent any noise or vibration nuisance through good working practices and adhering to high operational standards. A strategy based on the hierarchical structure shown in Figure 2 will be used at the Installation.

**Figure 2: NVMP Strategy**



### 5.2. Noise Emission Control Measures

- 5.2.1. The following general management techniques will be employed at the installation:
- staff will be suitably trained in the conditions of the Environmental Permit and EMS; and
  - the site will be managed in accordance with an EMS which is reviewed regularly to ensure it remains appropriate and up to date
- 5.2.2. Table 4 details the environmental risk assessment undertaken for noise and vibration arising at the Installation. It can be observed that the control measures reduce the overall risk to insignificant.

**Table 4: NVMP Risk Assessment and Control Measures**

Potential Source	Identified Receptor(s)	Pathway	Control Measures	Probability of Exposure	Consequence	Overall Risk
Vehicle movements-beeping from reversing	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	<p>Site vehicles will be kept to a minimum with all vehicles limited to 10 kph on site.</p> <p>A vehicle route designed to reduce the need for vehicular movements on site will also be in place and hence will reduce the intermittent beeping generated during reversing manoeuvres as required for the health and safety of all workers.</p>	<p>Low/Medium.</p> <p>Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.</p>	Noise or vibration nuisance	Not significant
Tipping of waste material	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	<p>Any tipping activity will be supervised by an AMG competent person with drop heights of 3.5m controlled during all tipping of waste materials to reduce the generation of noise and vibration.</p> <p>Material will only be offloaded in the dedicated covered tipping areas which are located a significant distance from the site boundary to reduce any noise and vibration emissions which may reach sensitive receptors.</p> <p>Daily operations cease at 5pm and the site does not operate on weekends or bank holidays.</p>	<p>Low/Medium.</p> <p>Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.</p>	Noise or vibration nuisance	Not significant
Main operations and processing activities – separating, sorting and baling.	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	<p>Site activities are only undertaken during the day until 5pm, and the site does not operate on weekends or bank holidays.</p> <p>Only experienced AMG personnel will be responsible for operating equipment.</p> <p>All equipment will be operated in accordance with the manufacturer specifications and manuals. Copies of the baler and container lift specifications are contained in Appendix II.</p>	<p>Low/Medium.</p> <p>Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.</p>	Noise or vibration nuisance	Not significant

**Table 4: NVMP Risk Assessment and Control Measures (Cont.)**

Potential Source	Identified Receptor(s)	Pathway	Control Measures	Probability of Exposure	Consequence	Overall Risk
Main operations and processing activities – separating, sorting and baling.	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	<p>Site machinery will be subject to plant pre-use checks prior to commencing operations each working day. A blank example is provided in Appendix III.</p> <p>All site plant and equipment will be covered by the Planned Preventative Maintenance Regime (“PPMR”) contained within the EMS to ensure adequate maintenance of any parts of the plant or equipment whose deterioration may give rise to increases in noise. A copy of the PPMR is provided in Appendix IV. Additionally, vital spare parts will be held on site to aid rapid repairs to ensure all machines are operating in good working order.</p> <p>The baler manufacturer has indicated operational noise levels of 78dB. AMG will comply with The Control of Noise at Work Regulations 2005. Personnel will not be required to wear hearing protection as the noise will not exceed 85dB.</p> <p>Sensitive receptors such as local residents are likely to experience noise nuisance over 50dB when outdoors<sup>1</sup>. The machinery will be located a significant distance from the Installation boundary, therefore, sufficient attenuation should prevent noise levels exceeding these levels to prevent any nuisance or complaints being received as a result of the proposed operations.</p> <p>A site inspection will be undertaken daily by the Site Manager/Maintenance Manager to monitor any noise within the Installation boundary. This will be recorded on the Daily Site Monitoring Check sheet, an example of which is provided in Appendix V. All AMG personnel will be trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.</p>	Low/Medium. Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.	Noise or vibration nuisance	Not significant

<sup>1</sup> Environment Agency 2004. Horizontal Guidance for Noise Part 2 – Noise Assessment and Control, available at [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/298126/LIT\\_8291\\_337647.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/298126/LIT_8291_337647.pdf), dated 2004, accessed November 2019.

**Table 4: NVMP Risk Assessment and Control Measures (Cont.)**

Potential Source	Identified Receptor(s)	Pathway	Control Measures	Probability of Exposure	Consequence	Overall Risk
Loading and removal of finished product	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	The finished product, once baled, will be lifted into a storage container in the presence of an AMG operator.  All vehicles are restricted to 10kph and must use the designated route to control the need to reverse, which reduces the intermittent beeping during reversing.	Low/Medium. Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.	Noise or vibration nuisance	Not significant

## **6. COMPLAINTS LIAISON AND RESPONSE TO COMPLAINTS**

### **6.1. Community Liaison**

6.1.1. AMG is committed to achieving an open and transparent relationship with the local community.

6.1.2. Contact details are provided on the AMG company website<sup>2</sup> including a telephone number and email address for general enquiries. AMG welcome correspondence using these provided methods of communication.

### **6.2. Response to Complaints**

6.2.1. If a noise or vibration complaint is received at the Installation or if unacceptable noise levels are recorded by AMG personnel during daily noise monitoring, the incident will be fully investigated which may include the following:

- undertaking an immediate site inspection to establish whether any noise or vibration can be observed at the present time;
- viewing Closed Circuit Television (“CCTV”) footage to determine if tipping, processing or vehicle movements were occurring at the time to try and establish the potential origin of the noise and/or vibration;
- speaking with operators on site at the time of the event who may be able to provide further information regarding the occurrence or the noise and/or vibration;
- reviewing the daily site monitoring check sheet to confirm checks have been completed and to note whether any abnormal activities or observations were recorded; and
- discussions with operators to establish any changes to normal operating conditions.

6.2.2. Information recorded will include but not limited to:

- an overview of the complaint received;
- investigation findings and associated actions raised;
- sensitive receptors in particular the type of receptors, location relative to the suspected noise source;
- timescales associated with the complaint;
- complainant feedback and on-going correspondence; and
- follow up to ensure close out of any preventative and corrective actions.

6.2.3. Corrective and preventative measures will be implemented if the complaint is substantiated and followed up if deemed necessary. Examples of the corrective and preventative measures which will be implemented depending on the noise complaint scenario are detailed in Table 5.

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<sup>2</sup> AMG Company Website, available at: <https://www.amgresources.com/locations-contact-info>, accessed October 2019

**Table 5: Complaints Corrective and Preventative Measures**

Scenario	Corrective Measures	Preventative Measures	Responsible Person
Received noise complaints regarding vehicle movements, such as beeping from reversing.	The Site Manager will highlight to the Site Operatives and Contractors of the importance of using the designated route.	If required, the speed limits can be further reduced on site to 5kph and limiting the use of reversing beeps to 15-20 seconds if safe to do so.	Site Manager/ Maintenance Manager
Received noise complaints regarding tipping of waste	Only the tipping bays furthest away from sensitive receptors will be used.	Drop heights may be reduced to 2.5m if required to reduce the noise and vibration levels associated with the tipping of waste.	Site Manager/ Maintenance Manager
Received noise complaints regarding main operations and processing activities	All equipment will be stopped until source of noise is identified. Any faults will be addressed immediately before recommencing operation.	Extra application of lubrications will be used where required.  Greater frequency of maintenance added to the PPMR to prevent reoccurrence of the identified issue/fault.	Site Manager/ Maintenance Manager

### 6.3. Timescales

6.3.1. The timescales associated with the complaint's procedure are as follows:

- investigate complaint – within 8 working hours;
- corrective measures – within 1-2 working days; and
- preventative measures implemented – within 2-5 working days.

### 6.4. Records

6.4.1. NVMP records are kept in accordance with the procedures established in the Non-Conformance and Corrective and Preventative Action Procedure (EAP09) which forms part of the EMS. This procedure is provided in Appendix VI.

6.4.2. The type of information that will be recorded relates to:

- an overview of the complaint received, what they relate to and any remedial action taken;
- sensitive receptors in particular the type of receptors, location relative to the suspected noise or vibration source and an assessment of the impact on the receptors; and
- identification of any circumstances, which compromise the ability to prevent noise and vibration nuisance and a description that will be taken to minimise the impact.

- 6.4.3. Any external or internal non-conformances raised against the requirements of the Environmental Permit or other relevant legislation, are recorded on a Site Improvement Action Form (EAP09/SD01) which also forms part of the EMS. This form is also provided in Appendix VI. These are then followed up by the Site Manager/Maintenance Manager, as appropriate, to address the concern identified and to prevent occurrence or re-occurrence. Details are recorded on the improvement action report to ensure they are effectively closed out. Improvement Action Forms are reported/reviewed as part of management meetings.

## **6.5. Feedback to Complainant**

- 6.5.1. AMG recognise that offering credible reassurance and demonstrating that complaints are taken very seriously can be extremely advantageous. AMG will discuss complaint investigation findings and the associated corrective and preventative actions which have been implemented directly with the complainant.
- 6.5.2. A visit to site will be offered to the complainant in order to walk through the process and to discuss the measures taken to reduce noise levels on site.

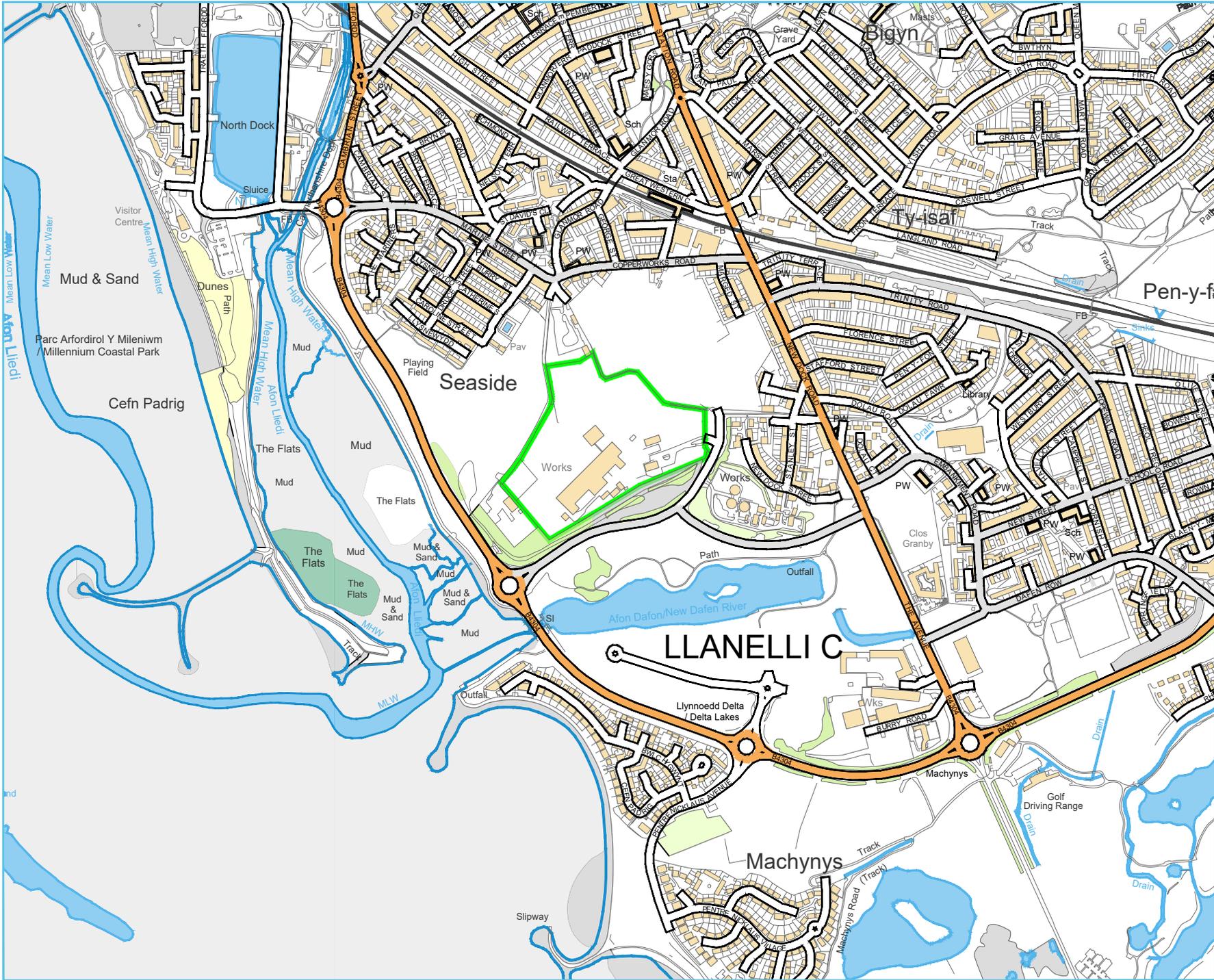
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## **7. NVMP REVIEW**

- 7.1.** The continuing effectiveness of the NVMP will be reviewed annually or in the case any risk management measures are deemed inadequate. This will be undertaken by the Site Manager/Maintenance Manager and Environmental Representative for the Installation.
  
- 7.2.** The reviews will take into account compliance records, complaints history, site records and any recent sensitive developments on neighbouring land. The plan will be amended as necessary, including any changes to the control measures.

# **APPENDIX I DRAWINGS**

**SITE LOCATION PLAN (ECL.008.01.04-001)  
SITE LAYOUT PLAN (ECL.008.01.04-002)  
SENSITIVE RECEPTOR PLAN (ECL.008.01.04-003)**



**LEGEND**  
 ENVIRONMENTAL PERMIT BOUNDARY

Rev	Date	Details	Chkd

**Environmental Compliance Ltd.**  
 Unit G1  
 The Willowford  
 Main Avenue  
 Treforest Industrial Estate  
 Pontypridd,  
 CF37 5YL  
**Tel:** 01443 841760  
**Fax:** 01443 841761  
**Email:** info@ecl.world  
**Web:** www.ecl.world

**Client**  


Date	Scale	Drawn by	Checked by	Approved by
19/11/2019	1:10K @ A4	GTB	SJ	SB

Drawing Status: **FINAL ISSUE**

**Project Title**  
 ENVIRONMENTAL PERMIT VARIATION APPLICATION  
 AMG RESOURCES Ltd  
 NEVILLS DOCK  
 LLANELLI  
 SA15 2HD

**Drawing Title**  
 SITE LOCATION PLAN

Drawing Number	Rev
ECL.008.01.04-001	-

- LEGEND**
- ENVIRONMENTAL PERMIT BOUNDARY
  - - - PROPOSED SPECIFIED WASTE OPERATION (8365.5m<sup>2</sup>)
  - BUILDINGS
  - BUILDINGS TO BE DEMOLISHED
  - ~ RAMP
  - - - BUND WALL (300mm)
  - CONCRETE HARDSTANDING
  - MADE GROUND
  - VEGETATED AREA
  - SITE ROADWAYS
  - Bore Holes
  - SUBSTATION
  - RED DIESEL TANK
  - S SOAKAWAY
  - I 3 STAGE OIL/WATER INTERCEPTOR
  - FIRE PREVENTION PLAN QUARANTINE AREA
  - QUARANTINE AREA NON-CONFORMING WASTE (ENCLOSED SKIP)
  - WASTE RECEPTION & SAMPLING AREA (10m X 10m)
  - 1/2 WASTE PILE CODES 17-04-05
  - 3/4 19-01-02
  - 5/6/7 19-12-02
  - 8 19-12-03
  - 9 20-01-40
  - W1 EMISSIONS POINT TO WATER TO BE REMOVED
  - - - SOUTHERN DRAINAGE LINE TO BE REMOVED

Rev	Date	Details	Chkd

**Environmental Compliance Ltd.**

Unit G1  
The Willowford  
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Client

**AMG RESOURCES**

Date	Scale	Drawn by	Checked by	Approved by
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**Drawing Status**

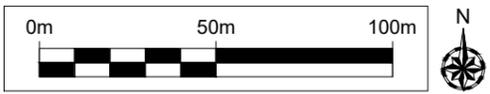
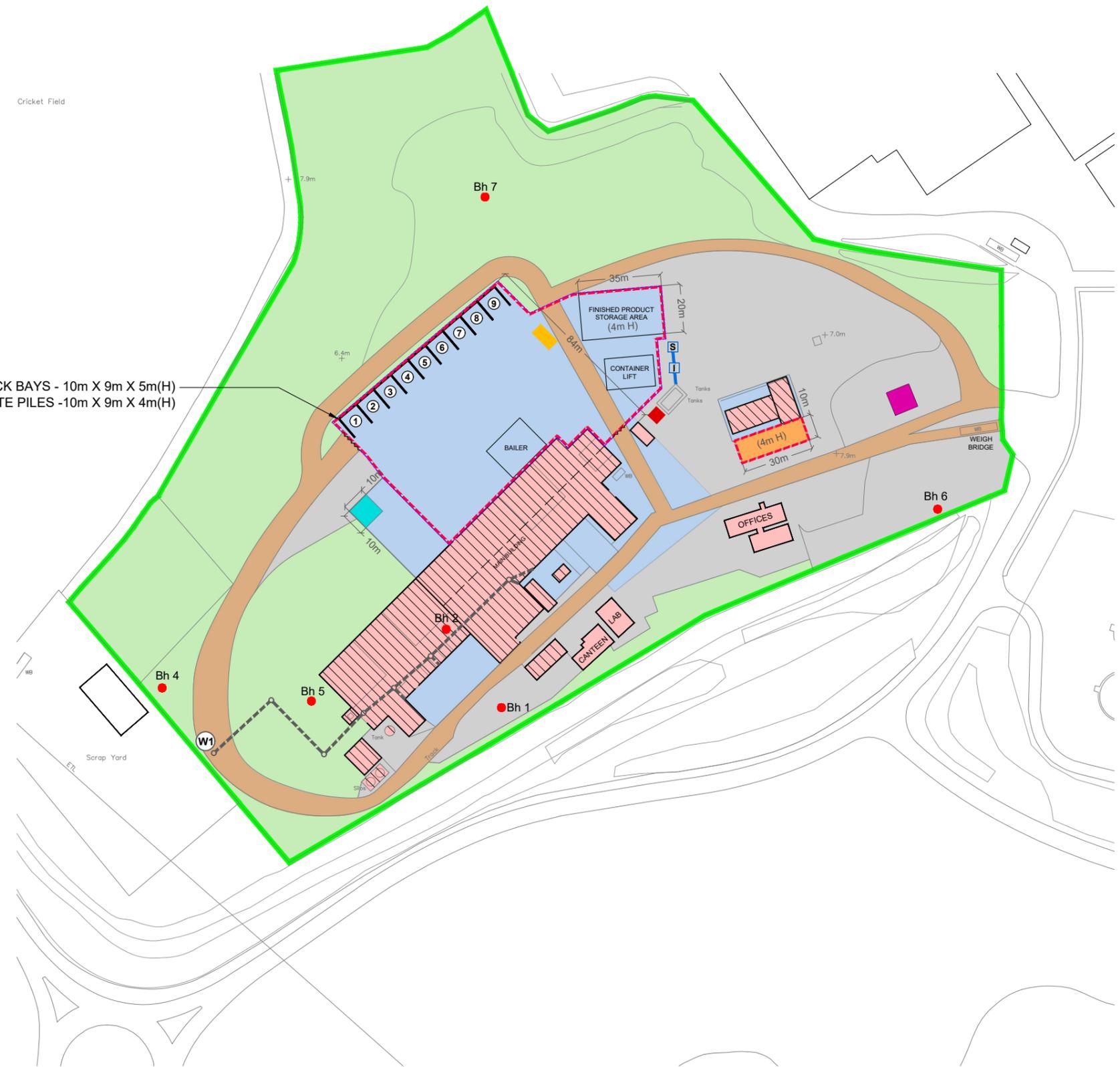
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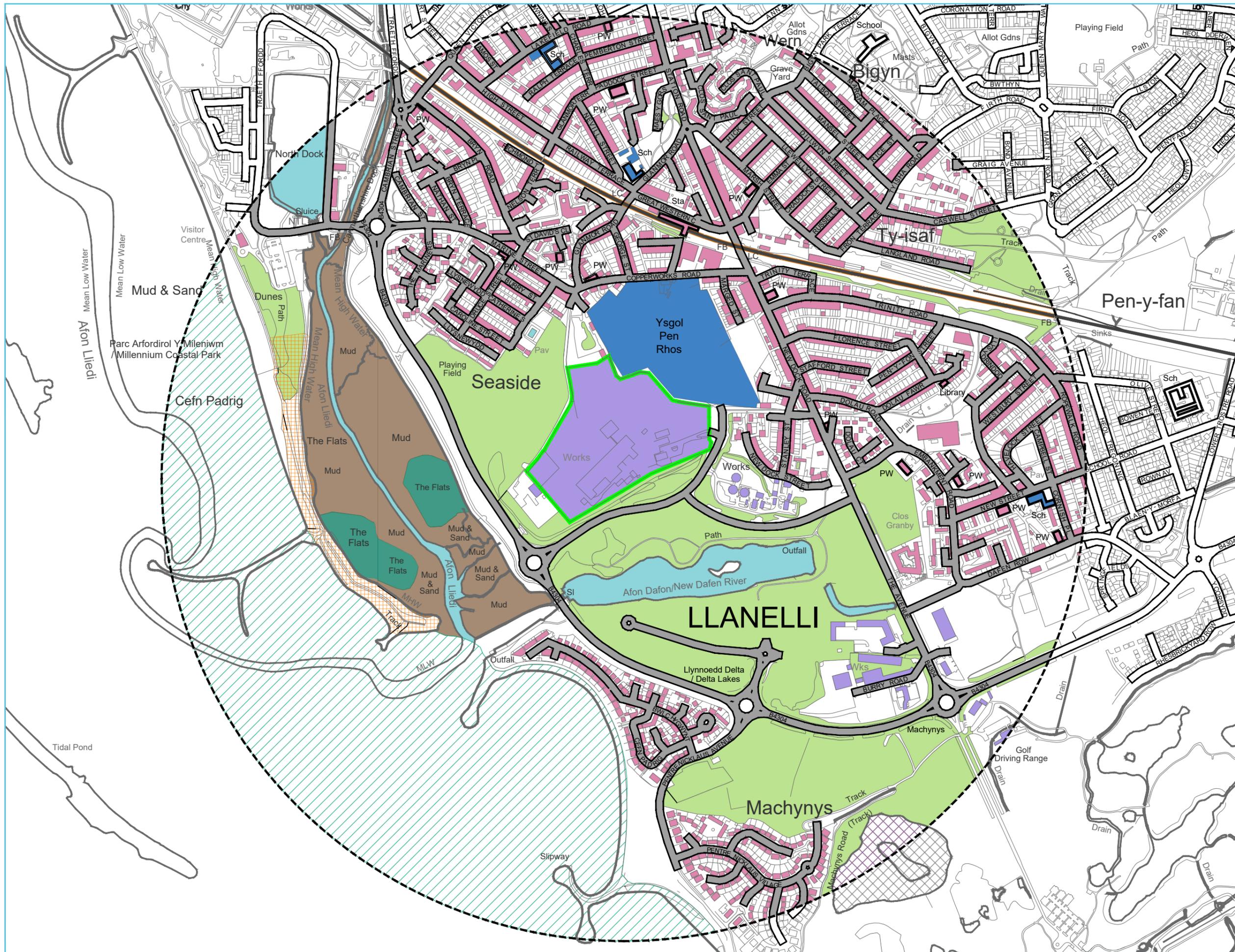
**Project Title**  
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AMG RESOURCES Ltd  
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**Drawing Title**  
SITE LAYOUT PLAN

**Drawing Number**  
ECL.008.01.04-002

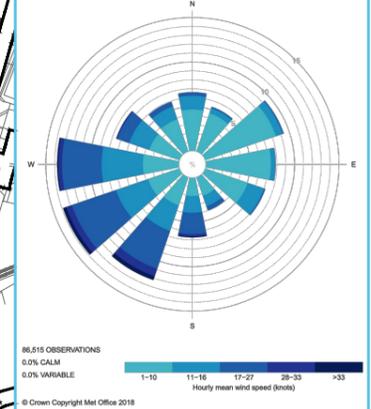
9x CONCRETE BLOCK BAYS - 10m X 9m X 5m(H)  
WASTE PILES - 10m X 9m X 4m(H)





- LEGEND**
- ENVIRONMENTAL PERMIT BOUNDARY
  - 1000m OFFSET BOUNDARY
  - DOMESTIC DWELLINGS
  - AREAS OF OPEN SPACE / PLAYING FIELDS
  - SCHOOLS
  - HOSPITALS
  - INDUSTRIAL / COMMERCIAL PREMISES
  - ROAD FEATURES
  - RAILWAY FEATURES
  - SURFACE WATER FEATURES
  - MARSH FEATURES
  - MUD FEATURES
  - SAND FEATURES
  - NORTH DOCK DUNES - LNR
  - BURY INLET - RAMSAR SITE, SSSI, SAC & SPA
  - MACHYNYS PONDS - SSSI

HOURLY MEAN WIND ROSE FOR PEMBREY SANDS  
 Met Office  
 NOR: 2385 E 2044 N ALTITUDE: 3 metres AMSL  
 SEASON: ANNUAL Period of date: Jan 2008 - Dec 2017



Rev	Date	Details	Chkd

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 Web: www.ec.world

Client  
**AMG RESOURCES**

Date	Scale	Drawn by	Checked by	Approved by
19/11/2019	1:7.5K @ A3	GTB	SJ	SB

Drawing Status  
**FINAL ISSUE**

Project Title  
 ENVIRONMENTAL PERMIT VARIATION APPLICATION  
 AMG RESOURCES Ltd  
 NEVELLS DOCK  
 LLANELLI  
 SA15 2HD

Drawing Title  
 SENSITIVE RECEPTOR PLAN

Drawing Number  
**ECL.008.01.04-003**

# **APPENDIX II MANUFACTURER SPECIFICATIONS**

## BASIC COMPONENTS OF THE Universal Frame (UO)

The Universal Frame (UO) is designed for the container's opening doors to be facing the front of the trailer (towards the cab). This model includes swing locks at both ends.

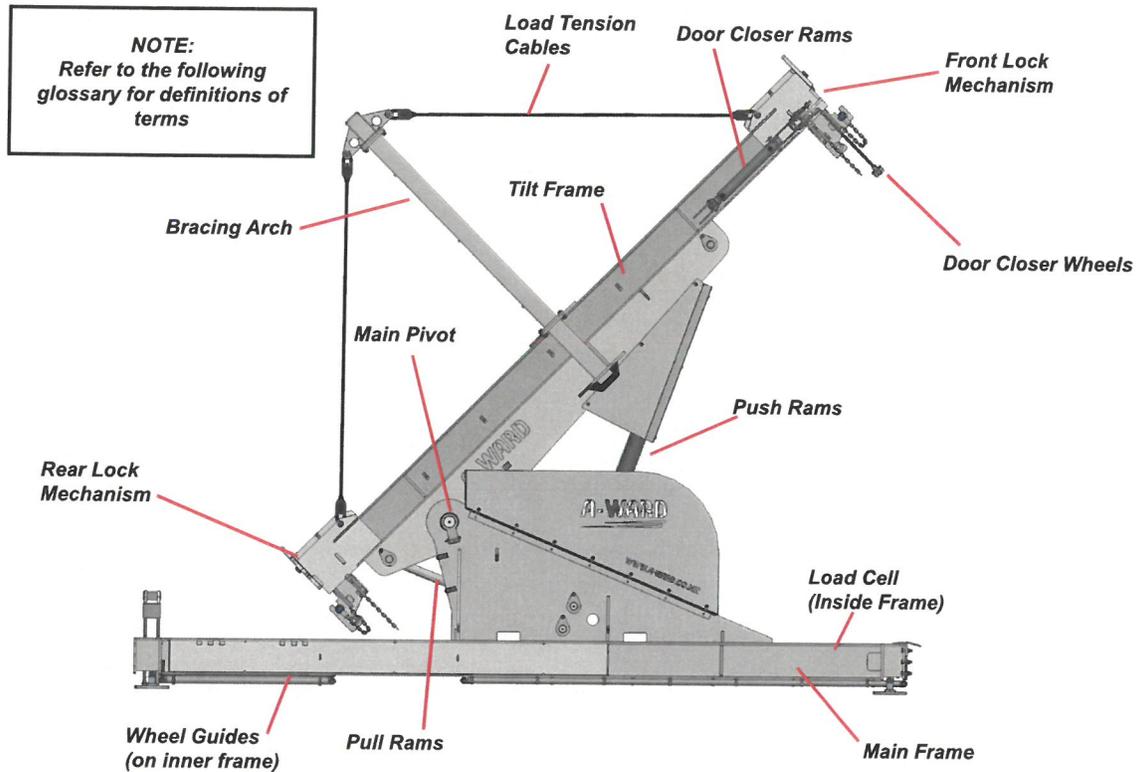


Figure 1.2: Universal Frame (UO) components

## SPECIFICATIONS (all models)

Capacity	30,000 Kg
Load	Standard 20ft Freight Container
Design Specification	AS 3990:1993 Mechanical Equipment Steelwork
Live Load factor	1.1
Loading Offset Ratio	60/40
Tilting Action	Twin Hydraulic Double Acting Cylinders
Tilting Angle	90 Degrees - Horizontal to Vertical
Hydraulic Pressure	250 Bar
Wind Speed	108 km/hr NZS 3404

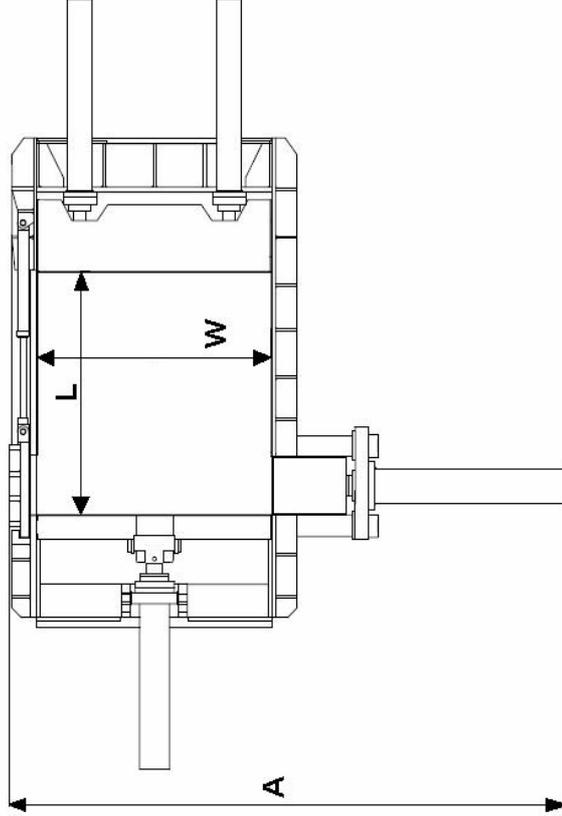
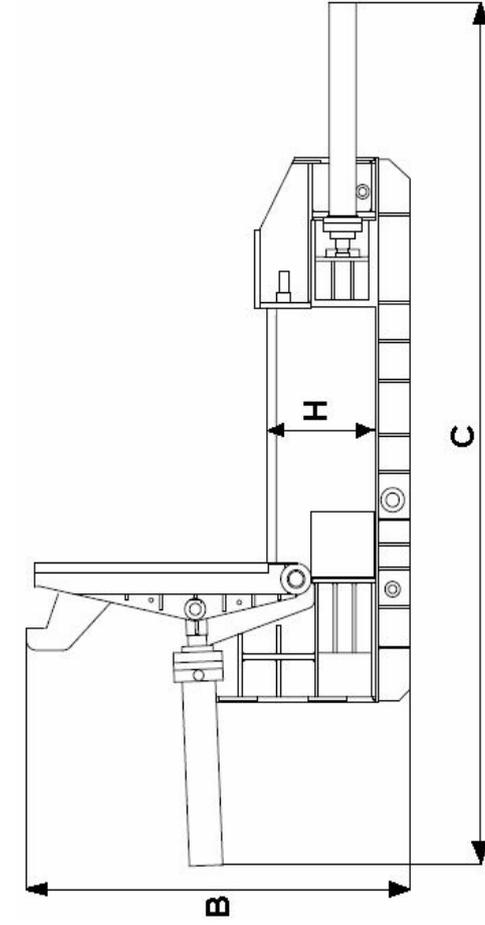
## GLOSSARY OF TERMS

Component	Description
Main Frame	The super structure frame has been designed to handle the working conditions and twisting wear and tear of handling containers.
Main Pivot	The main pivot hub on which the tilt frame pivots on the main frame.
Upper Frame	Based around the I-Beam structure to handle continuous bending loads while containers are being loaded and unloaded.
Push Rams	These two rams are the main power rams for lifting and holding loaded containers while being tilted.
Pull Rams	These two rams give the tilting operation stability and are also used for the starting movement when lowering the tilter from ninety degrees.
Wheel Guides	Base wheel guides are fitted to each side of the base frame to assist the trailer reversing into the Tilter unit. The container and trailer should be positioned in the centre for quick loading and unloading.
Swing Lug Mount	These lugs swing towards the container to engage the container blocks. They are held in place with the tie bolts and tie rod.
Door Close Wheels	The wheels are used to rest the doors against while loading the container and to push the doors closed and hold them in place until the container door latches are locked.
Door Close Rams	The small self-aligning rams on each side of the tilt frame are used to closed the doors and hold them firmly closed until the doors are latched.
Hydraulic Rams	Four large rams, two on each side of the tilt frame are used to tilt the container mounting frame, two rams extend and two retract for control operation through the complete tilting cycle.
Lock Bars (hockey sticks)	These are the forged bars which lock the container to the swing locks
I-Beam	This beam makes up the tilting frame of the Container Tilter and bridges the gap between the rear swing locks and the pivot hinge assembly.
Bracing Arches	These arches provide a rigid framework to ensure the frame does not scrow whilst under load
Load Tension Cables	These cables must be kept under tension to ensure the container is tightly enclosed by the Tilter frame.
Load Cell	This is a deflection bar load scale, using calculated shear beam force for weight management

### TIGER - 3 COMPRESSION BALERS

MODEL	BALE SIZE cm x cm x ...	PRODUCTION tons / hour	BALE WEIGHT kg	CYCLE (DRY) sec.	CYLINDER FORCE						MOTOR kW	WORKING PRESSURE bar	OVERALL DIMENSIONS A x B x C (cm)	PRESS BOX DIMENSIONS W x H x L (cm)	MACHINE WEIGHT kg
					1.LID		2.FRONT		3.SIDE						
					Ø(mm)	ton	Ø(mm)	ton	Ø(mm)	ton					
TIGER S	60 x 60	12 - 18	300 - 450	60	200	95	2 x 250	2 x 145	300	210	2 x 75	600 x 360 x 770	200 x 100 x 200	55.000	
TIGER L	60 x 60	16 - 24	400 - 600	65	250	145	2 x 220	2 x 115	400	375	2 x 75	680 x 380 x 830	200 x 100 x 250	62.000	
	75 x 75	17 - 25	450 - 650	65	250	145	2 x 250	2 x 145	400	375	2 x 75	700 x 430 x 9000	200 x 130 x 250	68.000	
TIGER LW	60 x 60	19 - 28	550 - 750	65	250	145	2 x 250	2 x 145	400	375	2 x 75	730 x 380 x 870	250 x 110 x 250	91.000	
TIGER LWH-2	60 x 60	21 - 30	550 - 750	60	300	210	2 x 275	2 x 180	400	375	2 x 90	730 x 385 x 870	250 x 110 x 250	104.000	
TIGER LWH-3	60 x 60	29 - 40	550 - 750	60	300	210	2 x 275	2 x 180	400	375	3 x 90	730 x 385 x 870	250 x 110 x 250	106.000	

Note: These data represent approximate values which are subject to change. Birim Makina has the right to change the data without prior notice. Bale weight and production capacity are calculated for steel scrap and may differ due to material type and filling density in operation.



# **APPENDIX III**

## **BALER PRE USE INSPECTION CHECKLIST**

**AMG Resources Ltd**  
**LID BALER PRE-USE CHECKLIST**

<b>Plant Description:</b>		
<b>Item</b>	<b>Check √ or X</b>	<b>Description of fault (X)</b>
<b>Before starting baler, check rams in position</b>		
<b>Visual check for leaks from hoses / cylinders</b>		
<b>Visual check for leakage of main motor oil</b>		
<b>Check cooling fan</b>		
<b>Check Oil level</b>		
<b>Check Hydraulic Oil Gauge</b>		
<b>Check door clearance</b>		
<b>Switch on baler and check ram movement</b>		

<b>Checked by (Print Name):</b>	<b>Signature:</b>	<b>Date:</b>

**COMPLETED CHECKLIST TO BE RETURNED TO MAINTENANCE MANAGER  
ON DAY PLANT USED**

# **APPENDIX IV**

## **PLANNED PREVENTATIVE MAINTENANCE REGIME**

AMG RESOURCES - LLANELLI  
 MAINTENANCE SCHEDULE FOR MOBILES  
 2019

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Date:												
Forklift				LOLER						LOLER		
Breakdowns												
Cat 962			Qtrly Service			Qtrly Service			Qtrly Service			Qtrly Service
Breakdowns												
Container Lifter									Annual Ins Check			
Breakdowns												
Cat 932									Annual Ins Check			
Breakdowns												
Skylift				LOLER						LOLER		
Breakdowns												
JCB 926				LOLER						LOLER		
Breakdowns												
Lid Baler		Qtrly Service			Qtrly Service			Qtrly Service			Qtrly Service	
Breakdowns												
Cat 318									Annual Ins Check			
Breakdowns												
Breakdowns												
Breakdowns												
Breakdowns												
Breakdowns												
LOLER: Lifting Operations and Lifting Equipment Regulations 1998 - Equipment is fit for purpose, appropriate for the task, suitably marked and subject to periodic thorough examination. Records must be kept of all thorough examinations and any defects reported to both person responsible for equipment and the relevant enforcing authority.												

X = Scheduled P= Partial C = Completed N= Not Completed

# APPENDIX V DAILY SITE MONITORING SHEET

### DAILY SITE MONITORING CHECKSHEET

INSPECTION	COMMENTS	ACTION TAKEN	RESPONSIBLE PERSON
Meteorological Conditions			
Details of Operations			
Visual Obs (e.g. dust) Storage & processing areas, weighbridge and internal roads			
Dust Suppression. Required? If yes, provide details.			
Presence of pests/litter or mud			
Presence of noise and/or vibration			
Any Other Comments:			

Name:

Job Title:

Date:

# **APPENDIX VI EMS PROCEDURE & ASSOCIATED FORM**

<b>ENVIRONMENTAL ASSURANCE PROCEDURE</b>	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

**NON-CONFORMANCE AND CORRECTIVE AND PREVENTATIVE ACTION**

<b>Issue</b>	<b>Date</b>	<b>Issue description</b>	<b>Prepared by</b>	<b>Checked by</b>	<b>Approved by</b>
1	01.07.2005	Issue 1	SB	SW	PSK
2	13.11.2008	Issue 2	SB	SW	PSK
3	23.10.2019	Issue 3	SJ	SB	PT

**NON-CONFORMANCE AND CORRECTIVE AND PREVENTIVE ACTION**

<b>ENVIRONMENTAL ASSURANCE PROCEDURE</b>	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

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ENVIRONMENTAL ASSURANCE PROCEDURE	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

## 1.0 PURPOSE, SCOPE AND RESPONSIBILITIES

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### 1.1 Purpose

To ensure that: -

1. Instances of non-conformance are controlled in a manner which prevents inadvertent use or have negative environmental impact.
2. Environmental concerns are handled in such a way as to minimise customer or interested party dissatisfaction.

### 1.2 Scope

This procedure gives guidance on: -

1. Responsibilities and authority for handling and investigating non-conformance.
2. Completing corrective and preventive action.

### 1.3 Responsibilities

The following personnel shall hold primary responsibility for ensuring that the requirements of this procedure are met:-

1. Site Manager
  - Responsible for investigating non-conformities.
  - Responsible for ensuring the close out of corrective and preventive action.
2. Maintenance Manager
  - Responsible for investigating non-conformities.
  - Responsible for completing corrective and preventive action.
3. Site Operatives
  - Responsible for identifying any non-conformance during day to day duties and reporting to the Maintenance Manager or Site Manager.

ENVIRONMENTAL ASSURANCE PROCEDURE	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

## 2.0 PROCEDURE

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### 2.1 Investigation of Non-Conformance

Any external/internal non-conformances raised against the requirements of the Environmental Permit or other relevant legislation are recorded on an Improvement Action Form (EAP09/SD01) which is contained in Appendix A.

These are then followed up by the Works Manager/Environmental Manager, as appropriate, to address the concern identified and to prevent occurrence or re-occurrence. Details are recorded on the improvement action report, to ensure they are effectively closed out.

These are reported/reviewed as part of management meetings and the Management Review meeting.

The following action is taken: -

Task No.	Action	Responsibility
1.	The cause of the non-conformance is identified	Site Manager Maintenance Manager
2.	Corrective action identified and implemented	Site Manager Maintenance Manager
3.	Action is taken to implement or modify control systems to prevent recurrence	Site Manager Maintenance Manager
4.	Written procedures are modified if necessary	Site Manager Maintenance Manager

### 2.2 Preventative Action

Preventive actions identified are recorded on an Improvement Action Form. These can be raised as an outcome of the following activities:-

- Audit Results
- Analysis of Data
- Customer Complaints/Perception
- Supplier Concerns
- Internal Concerns
- Management Review
- Staff Suggestions

They are reviewed/monitored by the Site Manager to ensure appropriate actions are effectively taken.

They are also reported/reviewed as part of Management Review Meetings.

<b>ENVIRONMENTAL ASSURANCE PROCEDURE</b>	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

**2.3 Improvement Action**

All improvement actions, including corrective and preventative measures undertaken are recorded on the Improvement Action Form (EAP09/SD01) provided in Appendix A.

Completed forms are reviewed during weekly and monthly site meetings.

<b>ENVIRONMENTAL ASSURANCE PROCEDURE</b>	
<b>EAP09</b>	<b>ISSUE STATUS = 3</b>
<b>Title: Non-Conformance and Corrective and Preventative Action</b>	<b>Date: October 2019</b>

**APPENDIX A**  
**EAP09/SD01 IMPROVEMENT ACTION FORM**

<b>ENVIRONMENTAL ASSURANCE PROCEDURE</b>	
<b>EAP09/SD01</b>	<b>ISSUE STATUS = 2</b>
<b>Title: Improvement Action Report</b>	<b>Date: October 2019</b>

<b>Date</b>		<b>Completed By</b>		<b>Report No.</b>	
<b>Source of Concern (please circle)</b>		Internal/Customer/Supplier/Regulatory Authority			
<b>Type of Concern (please circle)</b>		Un-authorized Release/Non-Compliance			
<b>Name/Contact Details</b>					
<b>Details of Concern</b>					
<b>Raised by</b>		<b>Notified to</b>		<b>Date</b>	
<b>Investigation/Cause of Non-Conformance</b>					
<b>Undertaken by</b>		<b>Notified to</b>		<b>Date</b>	
<b>Details of Corrective Action Taken</b>					
<b>Undertaken by</b>		<b>Notified to</b>		<b>Date</b>	
<b>Details of Preventative Action Taken</b>					
<b>Raised by</b>		<b>Notified to</b>		<b>Date</b>	
<b>Action Complete or Follow Up Required</b>					<b>Date</b>
<b>Non-Conformance Complete</b>		<b>Signature</b>		<b>Date</b>	