ARSWL 3 - Summary Environmental Management System for Aqua Rod (South West) Limited - Redruth Apex Site, Cardrew Way, Cardrew Industrial Estate, Redruth, Cornwall TR15 1SS, instead of

The Environmental management systems aims to help Aqua Rod (Southwest) Limited (known from now on as Aqua Rod) improve environmental performance, minimise risk and reduce business overheads.

Once permitted and operational the waste transfer and treatment operation will be incorporated into the current EMS.

The EMS employs the Plan, Do, Check, Act principal allowing all Environmental risks to be identified and mitigated, but also allows the effectiveness of the EMS to be assessed, measured and reviewed and improvements and corrective actions employed to improve environmental performance.

The PDCA model ensures environmental issues are systematically identified, controlled and monitored in accordance with an organisation's environmental policy, which is periodically reviewed and updated.

The EMS uses the PDCA model and incorporates the following elements.

The EMS aims to identify all relevant environmental risks, sources of pollution and receptors and show how these risks are managed.

Site Description and History

The EMS will contain a site description and history of the site for context

Auditing

The EMS will be both internally and externally audited by GAP and its appointed contractors

Document Management

Documents will be managed in the following information being recorded on all documents –

- Date of review
- Author
- Document reference number
- Document version
- Next review date

Site plan

The site plan will include the following –

- buildings, and other main constructions, fixed plant, fences
- storage facilities for hazardous materials like oil and fuel tanks, chemical stores, waste materials
- location of items for use in accidents and emergencies, like absorbents for chemical spills
- entrances and exits that can be used by emergency services
- points designed to control pollution, for example inspection or monitoring points

Engineered Site Surface and Drainage System

The EMS will include details of the sites drainage both surface water and foul.

Non-Conforming waste

Non-conforming wastes if identified will be –

- Stopped from tipping and turned away
- Tipped in quarantine area

Security

Details of the sites security will be recorded including –

- Fencing and gates
- CCTV

Contractors and visitors

Contractors and visitors will be made aware of the EMS via GAP environmental statement

Waste Acceptance

- All waste will have gone through a pre-acceptance process with all waste being booked in before it can come to the site.
- All incoming waste must report to the site office;

- A completed waste transfer note must be provided to show the description and origin of the waste.
- The vehicle is then directed to the relevant area for discharge.
- If there is a variation in the waste compared to its description this must be discussed with the site office and the waste carrier.
- If the description requires changing this will be completed if it the waste can be accepted under the environmental permit.
- If not the waste will be reloaded and removed from site.
- Any rejected loads, quarantined loads or loads where the description has changed from the original waste transfer note will be noted in the site diary.
- All waste will be assessed in line with Guidance on the classification and assessment of waste (1st Edition v1.2.GB) Technical Guidance WM3
- All waste movements will be recorded on the company's electronic system.

Waste treatment

Please state in detail exactly what the operating procedure of receiving, storing, treating and despatching a batch of waste entails.

- Tanker arrives at site, reports to the site office, and provides a description of the waste that has been collected. This should already be on system as the waste collected would already be on system including the source and description.
- Once the load has been booked into the system the waste will be discharged to the plant.
- The tanker drives onto the designated area for discharging which sites on an impermeable surface and part of a sealed drainage system (Final drainage and containment arrangements to be confirmed and proposed as a pre-commencement condition within the environmental permit).
- The tanker will then couple to the primary tank and discharge via pumping to the primary tank (course screen separator).
- The discharge liquid passes over screens remove larger solids and foreign bodies.
- Once screened the liquid is then pumped to the secondary tank and a flocculent added during this process.
- The liquid then arrives in the secondary tank and passes through fine screens leaving behind suspended solids.

- At this point, the liquid is ready to be discharged to the foul sewer via dedicated metered discharge point.
- At this point a sample can be taken as part of the process.
- If the process is to continue accepting the same waste stream then the tanks will remain operational until the screens needs clearing or solids require removing.
- If a different waste stream is to be processed the tanks are to be cleaned.

Sampling of discharge / Trade Discharge Consent

- In line with the Trade Discharge Consent reference T0545/1357 the discharge will be metered.
- The final sampling point will be made available and maintained for samples taken by South West Water.
- In the event of a failure of the consented discharge parameters the final effluent will be sampled by Aqua Rod and assessed externally at an accredited laboratory.

Tank Cleaning

- When required can be cleansed to remove solids or even be removed from the site for tipping.
- Screen when fouled can be cleansed via jet washing from inspection and access hatches on the top of all tanks (remain closed when in operation).
- Once the tanks are full of solids they can removed from site via a hook loader and tipped at a suitable permitted waste facility.
- On returning to the depot the tank can be further cleansed on the wash down area which discharges to the foul sewer.

Liquid storage

- All liquids will be stored and treated within a sealed and impermeable drainage system.
- The tanks used for the waste treatment are heavy duty singled skinned, but are located within a bunded area.
- The bunded area also contains all pipe work, flocculants and pumps associated associated with the treatment of waste.
- The bunding will provided 110% containment capacity for the largest vessel.

- Discharging of waste liquids to the foul sewer takes place in a controlled manner.
- If the bund requires cleansing or emptying of rainwater this will be via a pump to the foul sewer.
- Flocculants will be delivered to site pre-mixed within a 1,000-litre IBC. This is stored within the bunded area, but also on its own spill pallet and is clearly labelled with a safety data sheet will be available on site.

Spillages

- Spillages within the bunded area will be dealt with initially identifying the source of the spill or leak.
- If it is, a leak once identified the leak will be stopped. Then the spill will be cleansed using onsite spill equipment by trained staff.
- Used spill kit will be placed within designated bins for onwards movement to a relevant permitted facility.
- The bund will then be cleansed.
- Spillage on the tanker discharge point will be treated within the same manner, however in this scenario the sites drainage will be locked down whilst the spill or leak is dealt with.

Flooding

According to the EA's 'Flood Map for Planning', the site is located in Flood Zone 1.

The operator has signed up for Floodline, which provide free flood warning by phoning 0345 988 1188.

In the event of a flood the following actions will be taken:

- Flooding potential will be monitored by flood alerts in the local press or from the Inspecting Officer of the Environment Agency.
- With advanced notice all liquid waste will be discharged to the foul sewer or tankered off of site to a suitable permitted facility.
- Waste will not be accepted at the site whilst flood risk remains and will be diverted to suitable permitted facility.
- Staff will be communicated with regarding travel to and from work in times of flooding and informed not to enter the flood water.

- Records of flooding will be retained by the site manager and will include details on location of the flood water on site including photographs and annotated maps.
- Details of actions taken with regard to this flood action plan will be recorded in the site diary.
- In the event of a localised flood there may be localised power outages that may mean the site is unable to operate. If this is the case the site would be closed. In addition, flooding to local roads may also mean the site has to shut.

Waste Storage

The storage plan will include -

- the longest amount of time that each type of waste will be stored
- how storage limits will not be exceeded
- the maximum amount of each type of waste will be stored in terms of volume
- the maximum height of each storage pile on site
- how each specific waste types will be identified?
- how each waste type will be kept separate?
- how Aqua Rod ensures the site only takes waste that the permit allows to be stored

Site and equipment maintenance plan

Plant and equipment will be maintained according to the manufacturer's or supplier's recommendations

Maintenance such as servicing and calibration will be recorded.

The plan will include fixed and mobile plant.

Contingency plans

The EMS will show how Aqua Rod will minimise the impact on the environment of any:

- breakdowns
- enforced shutdowns
- any other changes in normal operations, for example due to flooding or other extreme weather

Accident prevention and management plan

The accident prevention plan will show how GAP will deal with any incidents or events that could result in pollution.

The plan will identify potential accidents, for example equipment breakdowns, enforced shutdowns, fires, vandalism, flooding, or any other incident which causes an unexpected change to normal operations, such as bad weather.

For each potential incident, it will state:

- likelihood of the accident happening
- consequences of the accident happening
- measures Aqua Rod will take to avoid the accident happening
- measures Aqua Rod will take to minimise the impact if the accident does happen
- The accident plan will also record, investigate and respond to accidents or breaches of the permit.

The accident plan will be reviewed annually or after an accident when it will next be reviewed

The accident plan will also contain -

- a list of emergency contacts and how to reach them
- a list of substances stored at the site, and the storage facilities
- forms to record accidents on

Contact information for the public

The site notice board will include -

- Aqua Rod name (company name at least)
- an emergency contact name and telephone number
- a statement that the site is permitted by the Environment Agency
- the permit number

Environment Agency telephone number 03708 506506 and the incident hotline 0800 807060

Complaints procedure

The Aqua Rod complaint procedure will deal with any complaints that are received in relation to activities covered by the permit (for example complaints from neighbours about noise, odour or dust from the site)

It will include -

- how Aqua Rod investigate those complaints
- any actions taken as a result of complaints
- Managing staff competence and training records

- The need to have enough staff and resources to make sure the site is run effectively in order to comply with the permit.

Technical Competency and training

Aqua Rod's management system will explain who is responsible for what procedures and who is technically competent.

Aqua Rod will also check that staff and contractors have taken the training or qualifications required for the work they carry out and record any training, refresher training or qualifications taken by staff or contractors

Keeping records

Aqua Rod will keep any records required by the permit.

Aqua Rod will keep records to show that the management system is being implemented in line with the requirements of the permit.

Documents on site

Aqua Rod will ensure the following are on site -

- permits issued to the site
- other legal requirements
- Risk assessment
- all management system plans
- any plans required by the application or permit depending on the type of activity (for example odour management plan at waste sites)
- all operating procedures
- staff competence and training (for example qualifications, courses attended)
- emissions and any other monitoring undertaken (for example water samples)
- compliance checks, findings of investigation and actions taken
- complaints made, findings of investigation and actions taken
- audits of management system, findings (reports) and actions taken
- management reviews and changes made to the management system

- where applicable, certification audit reports and any actions carried out

Waste input and outputs

Each delivery of waste at the site will be recorded, including -

- its quantity (weight or volume)
- its List of Waste (LoW) Code
- its origin (for example, the location the waste sent from)

- the identity of the producer of the waste (for example the company name)
- the date the waste arrives at the site
- the date the waste was first produced, if the waste is likely to cause odour
- any quarantined materials that are part of the delivery, and what happened to them.

Record will be kept to show that Aqua Rod are meeting their duty of care

Site closure / diversion of waste

In the event of a site closure either planned or in the event of an emergency Aqua Rod will divert waste to other identified permitted waste facilities and notify customers.

Specific plans

In the event of Odour, noise, dust or pest becoming an issue a specific plan will be produced

Review

The EMS will be reviewed annually or if there is

- a change to the maximum amount of waste stored on the site
- new waste treatment equipment
- implementation of new control measures
- implantation of specific management plan such as noise

Access to EMS and staff briefing

Aqua Rod's staff will have access to and understand any sections of the management system that deal with activities they carry out.