# Noise Management Plan

Client: Crown Waste Management Ltd

Ref No.: K4554/ENV/RT/010
Date: July 2024

# Document control

| Revision | Revision/ Review Date | Details of Issue | Authorised | | |
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| | | | Prepared By | Checked By | Approved By |
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# Content

# [1] Introduction

## [1.1] Report Objectives

This Noise Management Plan (NMP) supports an application by Crown Waste Management Limited to apply for a bespoke permit for their site at Pool Road Industrial Estate, Pool Road, Nuneaton, CV10 9AE (the Site).

The purpose of this NMP is to identify which aspects of the Site operations may cause noise emissions if uncontrolled and how noise will be minimised and mitigated.

This NMP has been undertaken using the current Environment Agency (Agency) guidance[1]. A copy of this NMP will be included in the Site's Environmental Management System (EMS) held at the Site Office and all members of staff will have access to this document.

## [1.2] Site description and activities

The Site is located 1.5km west of Nuneaton and primary access to the Site is from Pool Road to the South of the Site. The Site is centred on an approximate National Grid Reference of SP 34686 92298 and is located within Pool Road Industrial Estate which comprises predominantly industrial businesses.

The Site occupies 0.3 hectares of land, with the main concreted yard area where waste materials are stored and processed covering around 0.2 hectares. The site operates as a satellite to the physically separate permitted Waste Transfer Station (WTS1) operated within Pool Road Industrial Estate by the Operator under existent permit reference EPR/EP3192FU. The proposed satellite site (WTS2) currently operates under storage and treatment waste exemptions. This application is for a bespoke permit for a household, commercial and industrial waste transfer station will supersede the exempt activities and no more waste will be accepted under them once the permit has been issued for WTS2.

The permitted WTS1 and proposed WTS2 are shown in Figure 1. Both sites will be separately permitted.

[1] Noise and vibration management: environmental permits- GOV.UK (www.gov.uk)

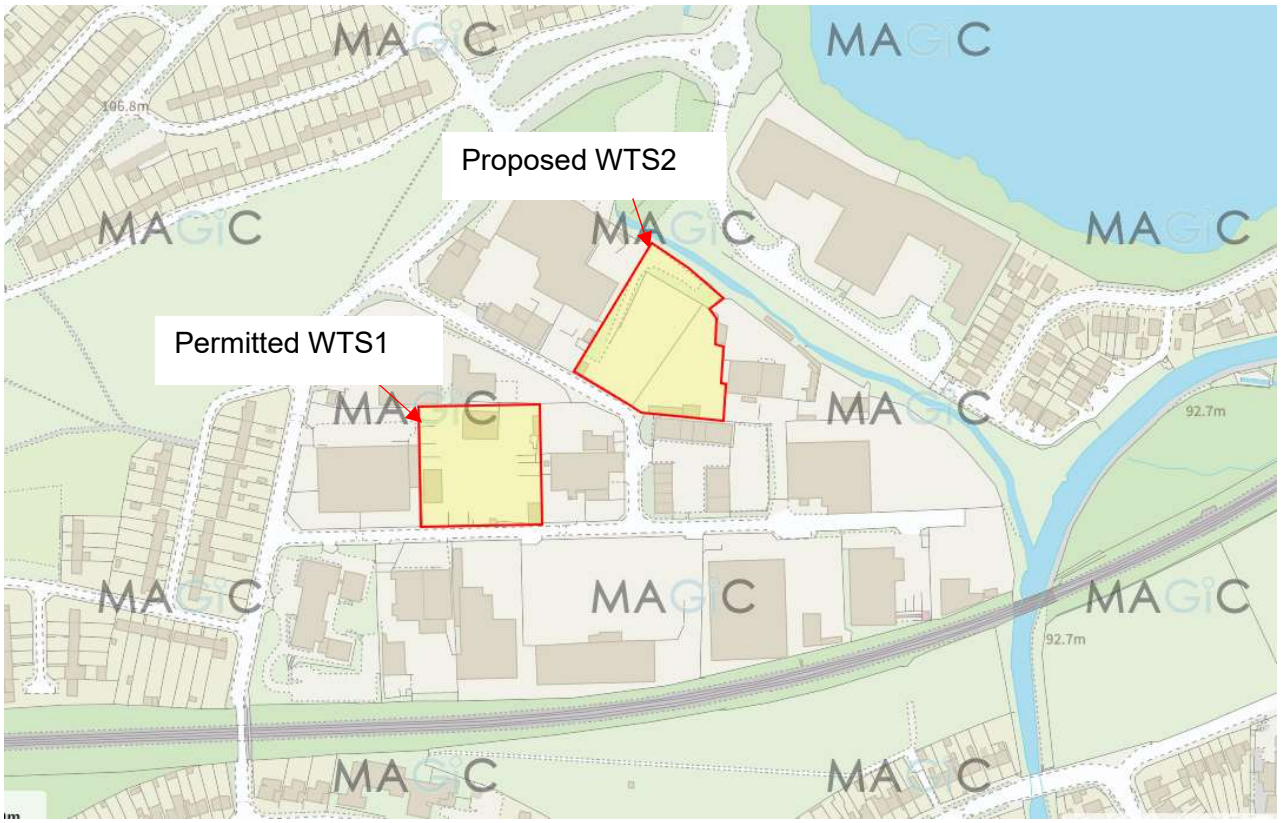


**Figure 1 Approximate Permit Boundaries (Source- Magic Maps)**

WTS2 is accessed via Pool Road. Approximately 10 m from the northern site boundary and 20 m from the eastern site boundary is a contained area for the waste treatment and storage activities. The U shape containment area is constructed of 3.2 m high concrete lego block walls and 3 m of steel sheet cladding upon the wall. A notice board will be provided at the site gate with the permit details and the Agency's contact details.

No new buildings will be constructed on site. Two metre high concrete storage bays within the concrete yard area will be used to store waste. An 8-yard skip will be used for plasterboard and a 14-yard skip for quarantined waste. Vehicles will leave the Site through the exit gateway onto Pool Road.

Soil, brick and concrete wastes will be screened. The screened material is then fed into the picking station where Site operatives pick any contaminants from the waste which are deposited in skips.

Soil, brick and concrete will also be processed through a separator. The HAAS wind sifter AIRWOLF proposed to be used onsite will complete the recycling process downstream of the mobile screener. The materials are separated by a process consisting of three components: the acceleration belt, the air nozzle and the separation drum. Light and heavy materials are precisely separated. Both fractions, light and heavy, are discharged over 2 integrated and hydraulically foldable outfeed belts into the adjacent concrete bays.

The Site will operate in accordance with the hours stipulated in the planning permission which states, 07:00 to 18:00 Monday to Friday and 07:00 to 17:00 on Saturdays. No operations will take place on Sundays, Bank and public holidays.

## [1.3] Maintenance and review of the NMP

The Site Manager is responsible for the NMP and ensuring staff are suitability trained in the content of the NMP. A copy of this NMP will be included in the Site Management System held at the Site Office and all members of staff will have access to this document.

The Site Manager will be responsible for dealing with any complaints in relation to noise. The Site Manager will also organise any necessary monitoring or management required to reduce noise emissions.

The NMP will be reviewed on a two-yearly basis with the scheduled review of the Site's EMS or as required with every major decrease, or alteration to the noise. Following any review of the NMP staff will be retrained on the content of the NMP.

All staff to be employed on site will be given training and instruction on implementing the NMP. Training will be part of the initial induction process and reviewed annually.

All third-party contractors will be required to be inducted; the induction process would include their responsibility concerning compliance with the NMP.

## [1.4] Relevant sector guidance on which the NMP is based

The following guidance and documents have been used to prepare this NMP:

- Environment Agency webpage dated January 2022 - Noise and vibration management: environmental permits - GOV.UK (www.gov.uk)
- Environment Agency Noise Management Plan Template dated May 2022
- Crown Transfer Staton 2 Environmental Risk Assessment dated March 2024 (reference: K4554/BLP/R/ENV/00008)
- Crown Transfer Station 2 Technical Standards dated March 2024 (reference K4554/BLP/R/ENV/00009)

# [2] Receptors

## [2.1] Receptor List

The receptors have been chosen based on the proximity or the most sensitive from the site. The transport of the sensitive receptor such as the frequency of prevailing wind has also been accounted for in this assessment. Meteorological data from Nuneaton[2] is expected to provide representative meteorological data for the area. The probability of exposure is determined by the distance of the site to the receptor and the likelihood of the hazard reaching the receptor. This stage of the assessment assumes that exposure has resulted from an uncontrolled emission i.e. without mitigation.

The list of receptors that is potentially at risk of noise at the Site care detailed in Table 1. Distance has been measured from the Site boundary.

**Table 1 Receptor List**

| Number | Receptor | Description | Distance from Site | Direction from Site | Freq. of Prevailing Wind |
|---|---|---|---|---|---|
| 1 | Bar Pool Brook | Watercourse | <10 | N | 13.6 |
| 2 | Ennell Road / Arrow Road | Road | 96 | N | 13.6 |
| 3 | Properties off Willow Road | Residential | 140 | N | 13.6 |
| 4 | Holly Stitches Dell | Local Wildlife Site | 151 | N | 13.6 |
| 5 | Coastal and Floodplain Grazing Marsh | Protected Habitats | <10 | NNW to NE | 22.1 to 7.2 |
| 6 | Arleigh Internation / Midland Chandlers Head Office | Commercial | 51 | NNE | 9.8 |
| 7 | Unamed Pond | Waterbody | 132 | NNE | 9.8 |
| 8 | Tuttle Hill | Road | 362 | NNE | 9.8 |
| 9 | Residential Properties off Corrib Road | Residential | 128 | E | 5.5 |
| 10 | Coventry Canal | Watercourse | 195 | ESE | 2.5 |
| 11 | Pool Road Industrial Estate | Commercial / Industrial | <10 | E to W | 5.5 to 0.7 |
| 12 | Railway Line | Railway | 187 | SE | 3.6 |
| 13 | Playing Fields | Recreational | 248 | SE | 3.6 |
| 14 | MacIntyre's Discovery Academy | School | 355 | SE | 3.6 |
| 15 | Allotment Gardens | Recreational | 168 | S | 2.1 |
| 16 | Properties off Vernons Lane / Black - A - Tree Road | Residential | 227 | S | 2.1 |
| 17 | Pool Road | Road | <10 | S | 2.1 |
| 18 | Hilary Road | Road | 155 | WSW | 1.8 |
| 19 | Properties off Hilary Road / Mapel Road | Residential | 166 | WSW | 1.8 |
| 20 | Whittleford Park and Barpool Valley | Local Wildlife Site | 110 | NW | 8.6 |
| 21 | Judkins Quarry Complex – HWRC & Bio-Waste Facility | Industrial | 485 | NE | 7.2 |

[2] Nuneaton Wind Forecast, Warwickshire CV11 4 - WillyWeather

### Table 2 Types of Receptors Sensitive to Noise

| Receptor Type | Sensitivity to Noise |
|---|---|
| Residential | High |
| Wildlife/ Habitat | Medium |
| Commercial/ Industrial | Medium |
| Road/ Railway | Low |
| School | High |

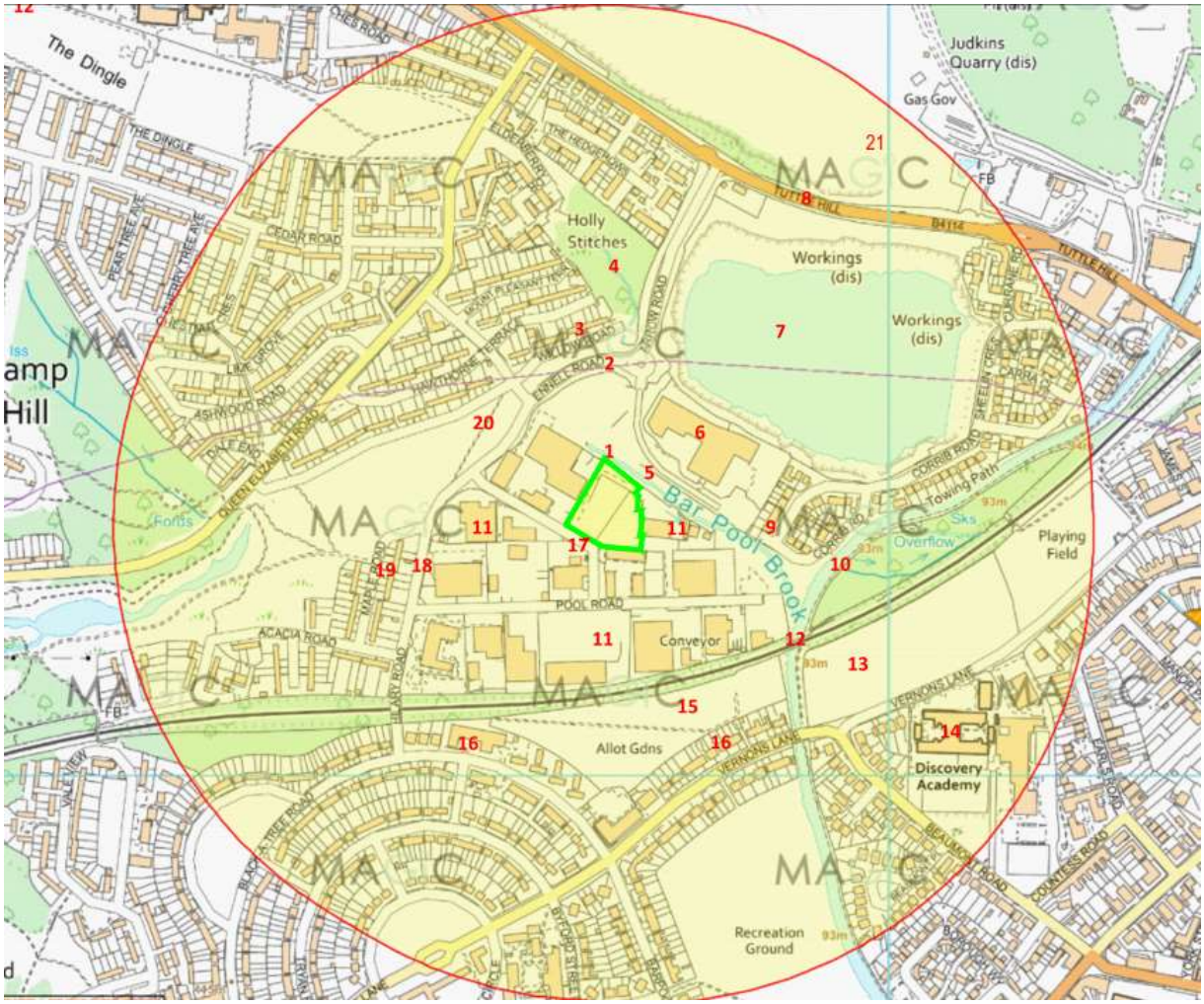


**Figure 1 Map of Sensitive Receptors**

# [3] Noise Sources and Processes

A Noise Impact Assessment has been undertaken at WTS2 to assess the noises levels of the Site's operations. The risk potential to each receptor from noise generated at WTS2 is presented in Table 3. This table evaluates the nuisance to sensitive receptors from noise emissions and the control measures to be implemented at WTS2 in order to minimise this risk, producing a revised residual risk to receptors.

## [3.1] Noise Impact Assessment (NIA) Conclusion

A Noise Impact Assessment (NIA) has been carried out by Sharps Redmore in accordance with BS4142:2014+A1:2019 and is attached as Appendix A.

## [3.2] Noise Sources

### [3.2.1] On-Site Sources

The current and proposed activities associated with WTS2 that have the potential to produce noise emissions are:

- Vehicle movements to and from WTS2
- Waste loading and unloading
- Plant used for waste treatment (hopper / screener, picking station and separator)

### [3.2.2] Offsite Sources

The Site is neighboured by two other open yards and a number of commercial / industrial properties. These activities have potential to generate their own noise.

## [3.3] Overview of Noise Processes and Emissions

The risk potential to each receptor from noise generated at WTS2 is presented in Table 3 below. This table evaluates the nuisance to sensitive receptors from noise emissions and the control measures to be implemented at WTS2 in order to minimise this risk, producing a revised residual risk to receptors.

## Table 3 Noise Risk Assessment and Action Plan

| Hazard / Pathway | Receptor | | | | Probability of Exposure | Unmitigated Consequence | Initial Risk | Risk Management | Mitigated Risk |
|---|---|---|---|---|---|---|---|---|---|
| | No. | Dist. | Direc. | Freq. | | | | | |
| **Noise (through the air):** from Vehicle movements associated with the delivering and handling of waste on Site. Site plant. | 1 | <10 | N | 13.6 | High – close to Site | Low – not a nuisance to watercourses | Low | All vehicles, plant and machinery will be chosen according to its suitability for the task, maintained according to the manufacturer's recommendations and fitted with silencing equipment were appropriate.<br><br>Where practicable, engines to be switched off when not in use.<br><br>Waste treatment activities to be undertaken in the U shape containment area constructed of 3.2 m high concrete lego block walls and 3 m of steel sheet cladding upon the wall.<br><br>The Site will remain locked and secure when not in use and will not at any time be open to the public. This will prevent vandalism to the site, vehicles, plant and machinery which could result in additional noise.<br><br>Onsite screener and picking station only operated during working hours and in accordance with manufacturer's recommendations. Both are surrounded by Lego Concrete Blocks with sheet cladding to minimise noise and vibration.<br><br>All events or complaints received associated with noise will be documented in accordance with the Sites Complaint Procedure and investigated to inform where required additional noise reduction measures. | Low |
| | 2 | 96 | N | 13.6 | High – close to Site | Low – road transient nuisance | Medium | | |
| | 3 | 140 | N | 13.6 | High – close to Site | High – nuisance to residents | High | | |
| | 4 | 151 | N | 13.6 | Medium – proximity to Site | Medium – disturb local wildlife | Medium | | |
| | 5 | <10 | NNW - NE | 22.1 - 7.2 | High – close to Site | Medium – disturb local wildlife | Medium | | |
| | 6 | 51 | NNE | 9.8 | High – close to Site | High – nuisance to workers | High | | |
| | 7 | 132 | NNE | 9.8 | High – close to Site | Low – not a nuisance to waterbody | Low | | |
| | 8 | 362 | NNE | 9.8 | Low – distant to Site | Low – road transient nuisance | Low | | |
| | 9 | 128 | E | 5.5 | High – close to Site | High – nuisance to residents | High | | |
| | 10 | 195 | ESE | 2.5 | Medium – proximity to Site | Low – not a nuisance to watercourses | Low | | |
| | 11 | <10 | E to W | 5.5 to 0.7 | High – close to Site | High – nuisance to workers | High | | |
| | 12 | 187 | SE | 3.6 | Medium – proximity to Site | Low – railway transient nuisance | Medium | | |
| | 13 | 248 | SE | 3.6 | Medium – proximity to Site | Medium – open space nuisance to users | Medium | | |
| | 14 | 355 | SE | 3.6 | Low – distant to Site | High – nuisance to students | Medium | | |
| | 15 | 168 | S | 2.1 | Medium – proximity to Site | Medium – open space nuisance to users | Medium | | |
| | 16 | 227 | S | 2.1 | Medium – proximity to Site | High – nuisance to residents | Medium | | |
| | 17 | <10 | S | 2.1 | High – close to Site | Low – road transient nuisance | Medium | | |
| | 18 | 155 | WSW | 1.8 | Medium – proximity to Site | Low – road transient nuisance | Medium | | |
| | 19 | 166 | WSW | 1.8 | Medium – proximity to Site | High – nuisance to residents | Medium | | |
| | 20 | 110 | NW | 8.6 | Medium - proximity to Site | Medium – disturb local wildlife | Medium | | |
| | 21 | 485 | NE | 7.2 | Low – distant to Site | High – nuisance to workers | Medium | | |

# [4] Control Measures and Process Monitoring

## [4.1] Appropriate Measures / Best Available Techniques (BAT)

The Site will be operated between the hours of 07:00 and 18:00 Monday to Friday and 07:00 and 17:00 on Saturdays. No operations will take place on Sundays, Bank and public holidays. The Operator has confirmed that treatment activities will only take place between 09:00 to 15:00 Monday to Friday and will not take place on Saturdays. This will further reduce potential noise emissions outside typical working hours.

All vehicles, plant and machinery will be chosen according to its suitability for the task, maintained according to the manufacturer's recommendations and fitted with silencing equipment were appropriate. Vehicles will be appropriately maintained so as to ensure that the operation of the Site does not give rise to unacceptable levels of noise.

Approximately 10 m from the northern site boundary and 20 m from the eastern site boundary is a contained area for the waste treatment and storage activities. The containment area is constructed of 3.2 m high concrete lego block walls and 3 m of steel sheet cladding upon the wall. This will reduce noise emissions from onsite vehicles, plant and machinery.

The screener will only be operated periodically during 09:00 to 15:00 dependent on available material. It will be operated in accordance with manufacturers recommendations. Particular care will be taken not to drop from excessive height when loading / unloading to containers or stockpiles to minimise noise.

The screened material will then be fed into the picking station where Site operatives pick any contaminants from the waste which are deposited in skips. For safety and noise reduction purposed the picking station is located in a portacabin away from site traffic. The portacabin is insulated and doubled glazed further reducing potential noise emissions.

A complaints procedure is in place on Site. The Operator has confirmed there have been no complaints to date for WTS1 or WTS2. Any complaints received directly or via the regulatory bodies including the Agency will be recorded in the Site Diary. The complaint will instigate additional monitoring and mitigation measures and if necessary, at the location of the complaint to determine the extent of the issue. Where possible, as much information and detail about the complaint will be recorded and this information used to assist in the investigation to resolve the issue.

Consideration will be given to the use of acoustic barriers to be erected around the trommel screen to further minimise potential noise emissions.

## [4.2] Onsite Monitoring Procedures

The Site is monitored daily for noise by the Site Manager and the time and location of these checks will be recorded in the Site Diary. Daily monitoring will be taken as an observation and additional monitoring will be undertaken where the following occurs:

- The site manager has identified an increase in noise emission.
- Complaints are received for noise emissions.
- Introduction of new plant or activities that could create potential noise emissions.

- New receptors around WTS2 are developed therefore changing the site setting

Noise monitoring at the Site will be the responsibility of the Site Manager or their appointed representative. Noise monitoring will only be carried out by a suitably experienced or qualified personnel.

Noise monitoring would be undertaken during the normal working day and in accordance with the Noise Impact Assessment

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# [5] Complaints Reporting

## [5.1] Overview

Prevention will be viewed as the most effective means of controlling noise before an adverse impact occurs from uncontrolled emissions. The Source → Pathway → Receptor model determined above allows for the identification of the critical control points where noise can arise, how it can travel to a receptor and the likely impact.

The performance of a NMP will ultimately be judged by the impact of the Site on the receptors. Should complaints be received, a procedure will be in place to effectively deal with the issue in a sensitive, efficient and auditable manner.

The controls for each source term are detailed in previous sections of this report. The management of those controls will be based on the on-going monitoring regime on Site. The monitoring regime can work as an early warning system against potential problems or a diagnostic tool to establish the cause of a noise event (e.g. perimeter monitoring).

## [5.2] Complaints Procedures

Any complaints received at the Site or via the Regulatory bodies including the Agency and Local Authority, will be recorded in the Site Diary. This will instigate further monitoring at the location of the complaint and on Site to determine the extent of the noise and whether further controls should be employed. Where possible, as much information and detail about the complaint will be recorded, whether this is from the relevant authority or complaint direct to Site. This information will assist in the investigation and determining the source of the noise e.g. differentiating between potential off-site sources.

All complaints and queries will be logged in accordance with the Operator's EMS as soon as practicably possible. All complaints that are logged will be subject to investigation and complainants will be responded to within 48 hours of receipt, where possible.

In the event that a substantiated noise complaint is received that is arising from the Site, additional monitoring will be undertaken at the nearest sensitive receptors to determine any off-site sources.

Complaints regarding noise from the Site will be investigated in accordance with the protocol, and appropriate records maintained which may include:

- Complaints received including name and contact details of complainant (if known), and complainant's description of the noise;
- Nature of problem including date, time, duration, prevailing weather conditions and cause of the problem;
- Onsite activities and operational condition at the time of the complaint;
- Records of the likely source of the odour even if it is clearly not from the Site;
- Details on the corrective action taken, and any subsequent changes to monitoring and operational procedures; and,
- If considered necessary after investigation, operations identified as generating unacceptable noise will be reduced or suspended until effective remedial actions have been taken to limit the noise emissions from WTS2.

The operator will ensure that the complainant has all the relevant contact details of the Site (i.e. the Site Manager) and the officer responsible at the Agency. The operator will be in regular contact with the complainant and the Agency whilst the cause of the odour is being investigated and remediated.

An evaluation of the effectiveness of the techniques used will be carried out on completion of any remedial measures or if the complaints persist. Records of the above will be retained by Site for future reference.

### [5.3] Means of Contact

The Site will be readily contactable to outside organisations and to members of the public. The Site signage board (placed in a readily visible location) will contain the necessary contact details for both the Site operations and Agency. The company website also contains the necessary contact details.

The Agency will be informed by the operator of the complaint and the operator will confirm to the best of its knowledge the information described in Section 5.2 above.

### [5.4] Complaints Screening

As part of each complaint received, these will be objectively assessed against the wider environment to ensure that the source of the emission is traced back to the correct source. It is essential that the source is correctly identified in order that mitigating measures can be applied effectively and correctly. The complaint will also be assessed against previous records to place the nature of the complaint into context.

If patterns in complaints emerge, community groups or individuals (subject to their agreement) will be called upon to act as an additional monitoring resource.

### [5.5] Complaint Investigation

In the event that noise is found to be causing a problem from the Site, as determined and confirmed by investigation into off-site complaints, or during routine monitoring; measures will be taken to determine the source and the following courses of action as detailed below shall be taken to ascertain if it is coming from the Site;

- Additional noise monitoring as detailed above to identify the extent of the emission and potential cause i.e. plant and/or activity;
- Examination of the operational activities at the time of the complaint;
- Examination of the meteorological conditions at the time of complaint;
- Carry out a review of the operational procedure and controls and instigate any control measures immediately following identification of the problem; and,
- Further monitoring will be carried out to ensure the issue has been addressed and to monitor the effectiveness of any control measures undertaken.

It is recognised that whilst complainants are encouraged to report valid complaints to the regulatory bodies, complaints that are received/submitted directly to the Site are able to be investigated more rapidly. As a result, complaints reported directly can be substantiated, reviewed and actioned quicker. With the complainant still able to report the complaint to the regulatory bodies after, should it be necessary. Nevertheless, all complaints will be investigated.

### [5.6] Records and Review

A daily record relating to the management and monitoring of noise will be maintained. It will include the following details:

- The results of inspections and noise monitoring carried out by personnel.
- Weather conditions including atmospheric pressure, wind speed and wind direction.
- Problems including date, time, duration, prevailing weather conditions and cause of the problem.
- Complaints received including address of complainant; and
- Details of the corrective action taken, and any subsequent changes to operational procedures.

The NMP will be reviewed on an annual basis with the scheduled review of the site management system or with every major increase, or alteration to the noise generated at WTS2 (i.e. a change to source term, pathways or receptors).

## [5.7] Abnormal Events and Contingencies

The NMP assumes that WTS2 will be running under expected operational conditions. There are however circumstances that could result in a noise emission from WTS2 above that has the potential to impact receptors and cause off-site complaints.

### [5.7.1] Breakdown of plant and equipment

Elevated levels of noise may escape from WTS2 due to the breakdown of the waste treatment equipment or plant. Machines not operating to the manufacturer's specification may create unacceptable levels of noise. Any damage to plant and equipment that results in abnormal operational conditions of the site when identified during inspections will be rectified as soon as practicable. The plant and equipment will not be used until any damage or lose part is rectified or replaced to ensure normal operational conditions of the site.

#### *[5.7.1.1] Damage to Buildings / Fencing*

Any damage to the picking station building including doors may result in the lack of containment of potential noise emissions from the operations. Operations within the picking station will temporarily be suspended until a formal inspection is undertaken by suitably qualified engineer to determine that the structural integrity of the building / doors are maintained and inform repairs.

Similarly, any damage to the walls / cladding surrounding the treatment activities may result in the lack of containment of potential noise emissions from the operations. Operations within this area will temporarily be suspended until a formal inspection is undertaken by a suitably qualified engineer to determine that the structural integrity is maintained and inform repairs.

#### *[5.7.1.2] Implementation of Contingency Plan and/or Emergency Plan*

Unscheduled unavailability should only take place due to unscheduled maintenance, emergency situations and for Health and Safety reasons such as a fire. In such cases the plant staff will initially inform the plant manager who will in turn inform service managers, the Authority and the Agency. Site staff will implement measures to store or divert wastes as required to a suitably permitted facility.

#### *[5.7.1.3] Operators Experience with Contingency / Emergency Situations*

The operator has a policy of continuous review of emergency and contingency procedures which helps improve procedures across the operator's operations.

### [5.7.2] Review and Update Contingency and Emergency Plans

The Contingency Plan and Emergency Plan will be reviewed following any incident where they have had to be followed. They will be updated as necessary with any lessons learned.

# Appendix A

# Appendix B