

Intended for
Quattro Ltd

Date
July 2020

Project Number
1620009167_DMP

WASTE RECYCLING FACILITY AND CONCRETE BATCHING PLANT, SOUTHALL LANE, HAYES

DUST MANAGEMENT AND MONITORING PLAN

WASTE RECYCLING FACILITY AND CONCRETE BATCHING PLANT, SOUTHALL LANE, HAYES DUST MANAGEMENT AND MONITORING PLAN

Project No. **1620009167_DMP**
Issue No. **03**
Date **27/07/2020**
Made by **Ben Madge/Lesley Vining**
Checked by **Lesley Vining**
Approved by **Lesley Vining**

Made by:

Checked/Approved by:

This report has been prepared by Ramboll Environment and Health UK Limited with all reasonable skill, care and diligence, and taking account of the Services and the Terms agreed between Ramboll Environment and Health UK Limited and the Client. This report is confidential to the Client, and Ramboll Environment and Health UK Limited accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Ramboll Environment and Health UK Limited beforehand. Any such party relies upon the report at their own risk. Ramboll Environment and Health UK Limited disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the Services.

Version Control Log

Revision	Date	Made by	Checked by	Approved by	Description
03	27/07/2020	BM	LV	LV	Issued with Amendments

Ramboll
Aston Court
Pynes Hill
Exeter
Devon
EX2 5AZ
United Kingdom
T +44 1392 440 600
www.ramboll.co.uk

CONTENTS

1.	INTRODUCTION	1
1.1	Overview	1
2.	SITE	2
2.1	Facility Location	2
2.2	Process	3
2.3	Permitted wastes	3
2.4	Specified limits of waste management operations	4
2.5	Operating hours	4
2.6	Products	4
2.7	Site Layout	4
3.	RESPONSABILITIES	5
4.	DUST GENERATION AND CONTROL	6
4.1	Dust Generation	6
4.2	Dust Control	6
4.3	Receipt and Movement of Raw Materials	7
4.4	Storage	8
4.5	Processing	8
4.6	Concrete Batching	9
4.7	Dust from Vehicle Movements and Machinery	9
4.8	Housekeeping	9
4.9	Training	10
4.10	Contingency Provisions	10
4.11	Maintenance Provisions	10
5.	MONITORING	11
5.1	Operations Monitoring	11
5.2	Meteorological monitoring	11
5.3	Visual Dust Monitoring	11
6.	COMMUNICATION	12
6.1	Introduction	12
6.2	Internal Communication	12
6.3	External Communication	12
6.4	Site Diary	12
6.5	Complaints	12

LIST OF TABLES

Table 2.1: Permitted Waste.....	4
Table 2.2: Annual Permitted Product Output.....	4
Table 5.1: Processes, Equipment and Dust Mitigation	8

LIST OF FIGURES

Figure 2.1: Application Site Location and Surrounds	2
---	---

APPENDICES

Appendix 1

Site Plans

Appendix 2

Dust Suppression System Plans

Appendix 3

Dust Monitoring Form

Appendix 4

Complaints Record Form

1. INTRODUCTION

1.1 Overview

Ramboll UK Ltd (Ramboll) has been instructed by Quattro UK Ltd (the site operator) to prepare a Dust Management Plan (DMP), including a dust monitoring plan, for the operation of a Construction and Demolition (C&D) Waste Recycling Facility (WRF) and Concrete Batching Plant (CBP) located off Southall Lane, Hayes, within the London Borough of Hounslow (LBH).

Planning permission ref: 01032/E/P44, granted January 2018, allowed for development of a waste recycling and concrete batching facility at the site. Condition No. 18 attached to the consent (ref: 01032/E/P44(18)) required submission of a Dust Management and Monitoring Plan. Details to discharge that condition were submitted to LBH in respect of the approved scheme.

This updated Dust Management Plan has been prepared in relation to the amended development now sought and is submitted in support of the new planning application to address the requirements of Condition 18.

The purpose of this plan is to identify the processes that could cause dust or particulates to be generated, the effective control measures to mitigate against the emission from the confines of that process and the wider site, and the dust monitoring programme to be followed.

The registered address and contact details for the site operator is:

Contact Name:	Eamon O'Loughlin
Contact Position:	Managing Director
Contact Number:	020 8838 2720
Registered address:	114-120, Victoria Road Park Royal London NW10 6NY

The site is operated under an Environmental Permit for the handling and processing of wastes.

The site is operated under a Part B permit for the CBP issued by LBH (Reference EPR147, issued 28/02/2018)

2. SITE

2.1 Facility Location

The facility is located to the west of Southall Lane and previously formed part of the southern extent of the Western International Market. The location of the application site is shown in Figure 2.1.



Figure 2.1: Application Site Location and Surrounds

The Quattro Southall Lane site comprises of a Construction & Demolition (C&D) Waste Recycling Facility (WRF), Concrete Batching Plant (CBP), weighbridge, office, welfare facilities, storage bays and associated staff and Heavy-Duty Vehicle (HDV) parking.

Access to the development is from Southall Lane with the access point located on the southern boundary of the site. The site access is shared with the adjacent Household Waste Depot (HWD).

The site is bound to the:

- north by Costco Wholesale with associated car parking facilities, beyond which lies Hayes Road;
- east by Southall Lane, beyond which lies Airlinks Gold Club and the David Lloyd Sports Centre;
- south by open space which comprises grassland and scrub with a pond, beyond which lies the M4; and
- west by the recently constructed Hounslow Household Waste Facility, comprising a materials handling facility, an office building and vehicle workshop.

The majority of land-uses in the immediate vicinity of the application site comprise a mix of commercial and industrial facilities. In the wider area there is a mix of uses including commercial,

industrial, residential, educational and open (recreational) space. The nearest residential receptors are located approximately 250 m to the north-east on Convent Way.

Medium sensitivity receptors in close proximity to the proposed development include two businesses:

- Costco Wholesale Warehouse (Costco) - located immediately north of the proposed development. The Costco site comprises the main warehouse building with car parking to the north and east. A small area of car parking would be located immediately adjacent to the Quattro site. The main customer entrance to the warehouse is on the north eastern corner and deliveries are received within the service yard located in the north west of the building. As such these entrances would be over 100 m from the boundary with Quattro.
- Virtus Datacentre - located approximately 80 m north west of the proposed development and comprises a large building housing a datacentre with a number of data halls and ancillary equipment, including back-up generators, air conditioning plant and office accommodation. At any one time there can be between 70 to 100 people working on site, with the site operating on a 24/7 basis.

2.2 Process

Onsite processes include the following:

- Delivery & Storage of waste;
- Weighing of delivered waste;
- Loading and Unloading of waste from transport;
- Waste Recycling Plant (WRP) comprising of:
 - Initial screening,
 - Trommel,
 - Enclosed Picking Station.
- Storage of:
 - Accepted waste,
 - Rejected waste,
 - Sorted waste.
- Concrete batching.
 - Delivery and storage of aggregate
 - Loading of aggregate into CBP hoppers
 - Delivery and storage of cement
 - Loading of mixer trucks.

2.3 Permitted wastes

Table 2.1 below specifies the types and quantities of waste that the site is permitted to accept.

Table 2.1: Permitted Waste

Permitted waste category		Maximum permitted quantity (tonne/year)
Index	Description	
170904	Mixed construction and demolition waste other than those mentioned in 170901, 1702902 and 200301	150,000
170301	Mixed municipal waste	

2.4 Specified limits of waste management operations

Excluded waste types include any waste type consisting of

- Solely or mainly of dusts, powder or loose fibres; or
- Wastes that are in a sludge or liquid form.

2.5 Operating hours

The site will operate continuously, with the following operational split:

- Receive and Process:
 - Monday – Friday 7am to 7pm
 - Saturday – Sunday 7am to 5pm
- Receive only:
 - Monday – Sunday 7pm to 7am (freight deliveries)

2.6 Products

Table 2.2 below specifies the types of product and maximum permitted annual output.

Table 2.2: Annual Permitted Product Output

Product	Maximum permitted annual output
Mixed concrete	50,000 m ³
Sorted wastes	150,000 tonnes

2.7 Site Layout

The site is accessed from Southall Lane by a shared road which runs along the southern boundary of the site. Staff carparking and the security office is located on the south of the site with service parking for larger vehicles to the north of the car parking. The WRP is located along the northern boundary of the site, with the CBP located in the north western corner of the site. Covered material stockbays are located at a number of locations on the site.

Site plans showing the site layout are included as Appendix 1.

3. RESPONSIBILITIES

Site Manager:

- Is responsible for the day to day operation of the process including ensuring that dust generation is minimised during operations;
- Will review the weather forecast at the start of each day;
- Will Conduct daily site inspections;
- Ensures site operatives are appropriately trained and briefed regarding dust management;
- Is responsible for carrying out off-site inspections and visual dust monitoring;
- Is responsible for recording daily activities, dust incidents and control measures applied in the Site Diary;
- Is responsible for recording complaints and resultant actions within the Site Diary.

Compliance Manager:

- Will notify the EA and any other relevant parties in advance of any significant change to operations, and will update the DMP to reflect this;
- Will review environmental complaints raised by external communication and record the outcome using the procedure outlined in Section 6; and
- Will review the Site Diary on a weekly basis.

Wider workforce:

- Will immediately report any dust problems to the site manager;
- Will ensure dust suppression systems are used and are maintained in an operable condition;
- Will cease operations if dust is observed to be crossing the site boundary; and
- Will operate machinery in accordance with this DMP (minimise material movements, etc.)

4. DUST GENERATION AND CONTROL

4.1 Dust Generation

Likely dust generation activities in the absence of mitigation include:

- Unloading, movement and transfer of material;
- Processing of waste materials;
- Stockpiling; and
- Dust from the movement of vehicles.

4.2 Dust Control

The key principles of dust emission controls at the site are through:

- Avoidance of dust generation;
- Containment of dust (through physical barriers); and
- Suppression of dust (through the application of water).

4.2.1 The following actions will be taken to avoid and contain dust:

- A 10 m bank and vegetated strip has been left on the eastern boundary of the site;
- Wet sweeping of the site using a sweeper vehicle;
- Cease dust generating operations during high winds in conjunction with dry weather;
- Incoming waste sheeted and unloaded in a building;
- Screening and sorting is conducted within a building;
- Conveyors used to transfer waste are fitted with hoods;
- Enclosed CBP aggregate conveyors;
- CBP silos fitted with sensors and alarms to prevent overfilling or pressurising;
- The whole service yard is laid to concrete to permit easy cleaning;
- Full enclosure of the WRP machinery;
- Material stock bays to be covered with automatic sprinkler sprays installed on the canopies;
- Perimeter wall and cladding installed to a height of approximately 3.5 m, with a 5 m wall surrounding the WRP yard area;
- Lorries entering and leaving the site are fully enclosed or appropriately sheeted; and
- Lorries leaving the site will pass through a wheel washing station fitted with rumble strips.

4.2.2 The following actions will be taken to suppress dust:

- Pre-wetting of known dusty material prior to initial handling;
- Misting curtains fitted to waste reception building;
- Water spray fitted to trommel screen;
- Water spray fitted to exit of manual picking line;
- Automated sprinkler system to edge of material stock bay;
- Water spray fitted to boundary wall adjacent to waste processes and CBP along the northern and eastern boundaries;
- Damping of sorted waste stockpile and 40 yard skips using a mobile dust suppression and spray units;

- The water sprays rely on electrical pumps; in the event of power failure all operations will cease. There is an on-site emergency generator that provides electricity for essential electrical items such as fire alarms and will include some pumps;
- The water sprays are activated on an automatic timer which can be overridden by the site manager based on a daily or weekly basis depending on weather conditions and time of year;
- The water sprays are able to be operated flexibly to provide dust suppression over all or some of the site activities dependant on operations;
- Water storage has been provided on the site to ensure that there is sufficient water for dust mitigation in the event of drought or prolonged dry weather. The site has above ground storage for 50,000 litres of clean water plus 100,000 litres of grey water which can be used for dust mitigation;
- The site drainage has been specifically designed with adequate attenuation tanks to capture and retain as much water as possible for recycling in the CBP; and
- The location and coverage of the dust suppression system is provided in Annex 2.

4.2.3 Wind Dynamic Management;

- Boundary wall to the height of approximately 3.5 m to moderate wind speed across the site. The wall adjacent to the CBP is concrete to the height of 0.5 m and wooden sleepers to the height of 3.5 m above ground level;
- Boundary wall to the WRP to 5 m in height with short canopy extending into the site and dust suppressant sprays fitted at 10 m intervals;
- Covered material stack bays to provide shelter from wind; and
- Unloading operations conducted in the material reception building to provide shelter from wind.

4.2.4 Other

- Operator procedures in accordance with best practice and the manufacturers guidelines in conjunction with appropriate maintenance, minimising drop heights;
- Operator training in the correct operation of equipment and actions to be taken in the event of dust generation; and
- Good housekeeping – wet sweeping the yard and cleaning of any spillages.

4.3 Receipt and Movement of Raw Materials

Waste material is transported to site by Large Good Vehicles (LGV). These are fitted with covers that entirely enclose the waste, preventing fugitive dust emissions during transport.

Aggregate deliveries for the CBP will be by LGV. These will be fitted with covers that entirely enclose the aggregate, preventing fugitive dust emissions during transport.

All loads are examined prior to unloading to assess potential for generating dust and non-permitted waste items. Any problematic loads identified will not be unloaded until suitable dust control measures are identified and put in place.

The movement of material within the site will be restricted or avoided during periods of high winds (greater than 11 m/s), as indicated by the on-site graduated windsock.

A wheel washing station will be located just before the exit weighbridge to prevent mud and other debris tracking onto local roads.

4.4 Storage

All materials storage areas are covered and fitted with boundary sprays. This will limit the height of stockpiled material.

Overflow storage of aggregates to be used in the CBP will be stored in material stock bays fitted with a roof to prevent wind whipping. The material is inherently damp and is therefore not considered a significant source of dust. However, automated sprays are proposed on the stock bays to ensure that the materials are kept damp.

Stockpiles are inspected daily as part of the site manager's regular inspections, and any dust generation remedied through dampening of material or stockpile height reduction. Aggregate storage bays fill levels will be monitored to prevent overfilling.

Effort will be made to keep the quantity of material stockpiled on-site to a minimum through the management of deliveries and ensuring regular deliveries of finished product.

4.5 Processing

Accepted waste material is tipped into the waste reception building by the delivery HDV. An excavator picks out all oversized waste for pre-processing. Waste is then loaded into the receiving hopper using a front loader. Waste then passes through a trommel screen and blower. The waste material passes through the picking station, where cardboard, timber, plastic, metal, paper, green waste and hardcore is dropped into containers. The hardcore is screened and crushed to produce graded aggregate/sand/shingle. The whole process will be enclosed from start to finish.

High grade aggregate is used in the wet CBP. Aggregate will be loaded into the CBP aggregate bunkers unless full, when it will be loaded into the bays. Aggregate is loaded from aggregate bays adjacent to the CBP to the bunkers by loading shovel.

C&D waste processing equipment and integral dust containment and suppression measures are listed below in Table 4.1.

Table 4.1: Processes, Equipment and Dust Mitigation

Process	Equipment	Containment	Suppression
C&D waste screening	Trommel	Located internally	Water spray curtain located on doors to building
C&D waste sorting	Blower	Located internally	Water spray curtain located on doors to building
C&D waste sorting	Picking Line	Located internally	Integral water spray fitted to picking line Water spray curtain located on doors to building
Concrete Batching	Batching Plant	Sealed batching unit Sealed cement silos Aggregate conveyor enclosed	Material dampened before loading by loading shovel Finished product wet- no suppression required

Any external operations will be carried out with the water spray cannons in operation to dampen the yard surface and suppress dust. Additional mitigation will be provided in times of dry weather to the material entering processing by pre-wetting the material.

4.6 Concrete Batching

The CBP will be fully enclosed and will be of the latest design suitable for use in urban locations.

All aggregate for use in the CBP would be transferred into the plant via enclosed covered conveyors and stored within enclosed integral aggregate storage bins. Any excess aggregate will be stored in material bays fitted with a roof.

Cement for use in the CBP would be delivered by tanker and discharged by a sealed pressurised pipe system into sealed cement silos. The silos would be fitted with dust filters and high-level pressure sensor alarms which would be linked to automatic shut-off valves on the fill pipe.

The loading and mixing process for the batching of concrete would be fully computer controlled and would occur within a fully enclosed mixer.

The plant will produce wet-batched concrete only which would be dropped into the mixer trucks for onward distribution. As a wet batch process it would therefore not generate dust.

4.7 Dust and Emissions from Vehicle Movements and Machinery

Dust from the movement of machinery and vehicles across the site will be reduced or controlled through the following control measures:

- The site is hard surfaced with concrete;
- The access road is surfaced with tarmac;
- The yard and access road will be kept damp as necessary using water spray;
- The road and yard will be regularly wet swept using a road sweeper and the sweepings appropriately disposed of;
- The road sweeper will be operated twice daily between the hours of 7 – 10 am and 4 – 5.30 pm to ensure that the road and yard are kept clean;
- On-site vehicle speeds kept to a minimum, maximum on-site speed of 5 mph; and
- Plant and processing equipment will be kept clean to avoid build-up of dust that may later be dropped or cause wind-blown dust;
- Car and lorry parking areas kept separate from processing area and shielded through the provision of boundary walls or buildings;
- Lorries entering and leaving the site are fully enclosed or appropriately sheeted; and
- Lorries leaving the site will pass through a wheel washing station fitted with rumble strips;
- Lorries leaving the site are checked via digital CCTV cameras and the weighbridge operator to check that they have been appropriately cleaned before leaving the site. The traffic marshall/yard man also checks lorries. In the event that lorries are found to be unclean they are either re-routed through the wheel wash or are manually cleaned with a hose and broom;
- The site has an anti-idling policy and Quattro vehicles are fitted with anti-idle devices;
- All on-site non-road mobile machinery will meet the required emission ratings. Existing plant ratings are:
 - Kubota KX080-4 Eco Plus - Emission Stage IIIB
 - Liebherr LH24 - Emission Stage V
 - Volvo EC140E - Emission Stage V
 - Caterpillar 962M 2018 - Emission Stage IV

4.8 Housekeeping

Regular activities that contribute to the control and mitigation of dust include:

- The yard and access road will be wet swept regularly to prevent the build-up of dust;
- The road sweeper will be operated twice daily between the hours of 7 – 10 am and 4 – 5.30 pm to ensure that the road and yard are kept clean. A record of the housekeeping activities is kept in the site manager's diary;
- Areas of the yard that cannot be accessed by the road sweeper would be cleaned by the use of a broom and hose;
- The access road is owned by the London Borough of Hounslow. This road will be cleaned and other highways as and when required in addition to the regular sweeping in the hours noted above;
- The yard is enclosed by a perimeter wall and fencing to a height of approximately 3.5 m. In addition, water sprays will be fitted on the boundary between the WRF/CBP and the properties to the north and west;
- The perimeter wall and fencing will be kept clean, using wet methods as necessary; and
- Drop heights will be minimised.

4.9 Training

All employees will receive training on how to minimise the generation and emission of dust from unloading, sorting, storage, processing loading and delivery operations. Where the production of dust cannot be prevented, employees will be trained on the use and maintenance of the dust suppression equipment. This training will be recorded in the individual's training record.

4.10 Contingency Provisions

Meteorological conditions such as dry weather and/or high winds can result in greater generation and wider dispersion of generated dust. A wind sock will be located on the southern boundary to inform operators of the wind speed and direction. Additionally, daily meteorological conditions would be recorded within the site diary. When the wind sock is horizontally extended, indicating high wind speeds (> 11 m/s), the need to temporarily cease external processing operations to prevent dust emissions will be kept under constant review by the site manager.

If a process has ceased due to dust emissions, the reason and any additional control measures applied are to be entered into the site diary.

4.11 Maintenance Provisions

A suitable supply of spare parts including hoses and nozzles will be kept on-site to allow prompt repair of dust suppression spray equipment. Spares will be kept for equipment following the manufacturers guide to ensure good operation.

Maintenance arrangements will be made to ensure that key plant used for dust mitigation can be repaired or replaced within 24 hours of breakdown.

In the event that key plant are not operational, or other failure of dust suppression equipment occurs (e.g. freezing of water supply, etc.) site operations will be kept under constant review by the site manager to ensure dust control is adequately maintained. In the event that dust emissions are observed to be leaving the site, operations will cease until repairs can be facilitated.

Water available to the site for dust suppression is from the mains water supply. In addition, on-site storage tanks kept full using mains supplied water will provide an on-site reserve supply of water for concrete batching and dust suppression. In the event of failure in water supplies, operations will cease.

5. MONITORING

5.1 Operations Monitoring

The site manager will conduct daily inspections of the site to ensure that equipment and processes are in working order, this will include all yard areas to ensure that they are kept damp and the boundary fencing and walls to inspect for signs of increased dust deposition or generation. The frequency of the inspections will increase during periods of dry and/or windy weather. In addition, training will be given to all site staff regarding the importance of dust mitigation and the need to immediately report visual emissions of dust during operations so that appropriate mitigation actions can be taken.

5.2 Meteorological monitoring

Each morning a review of the existing and forecasted weather conditions will be carried out by the operations manager and/or environmental coordinator and communicated to site operatives.

Additionally, a wind sock is to be located on the site. The wind sock will provide a visual indicator of the wind speed and direction. When flying horizontally, indicating winds of greater than 11 m/s external operations will be kept under constant review to ensure adequate mitigation is employed to prevent dust generation. In the event that weather conditions are such that dust emissions beyond the site boundary cannot be avoided external operation will cease, until weather conditions have changed, and will act as a cue for implementation of additional dust mitigation such as relocating dust suppression water sprays, wetting of material or cessation of activities.

5.3 Visual Dust Monitoring

The site manager, or his/her delegated individual, will conduct a twice daily visual inspection of the site and its surrounds which would last for a minimum of 10 minutes. In addition to a general inspection of the site, careful attention will be paid to the following locations:

- Site yard
- Boundary adjacent to neighbouring properties
- Neighbouring properties, especially the Costco car park
- The access road.

The site manager, or delegated individual, will check the following:

- for signs of visible dust blow off from stock piles and machinery;
- boundary sprays and other dust mitigation apparatus are operating correctly; and
- evidence of dust deposition on neighbouring buildings, street furniture, stationary cars and road surfaces.

The results of the visual dust monitoring together with the date, time and brief details of the weather and site activities will be recorded on a dust monitoring sheet as included in Appendix 12 and included within the site diary. The site diary will be made available to the EA or LA upon request.

In addition, a DMII automatic dust monitor has been located on the perimeter of the site adjacent to the main road, which records the concentration of PM₁₀ every hour and also calculates a daily average. The monitor notifies the site manager if the daily average exceeds 50 µg/m³. In the event that this occurs, it would be entered into the site diary, and an investigation would be action to investigate the reason for the high PM₁₀ readings.

6. COMMUNICATION

6.1 Introduction

This procedure documents the processes and methods by which Quattro communicates internally and externally on dust issues. These processes will ensure effective procedures for receiving, documenting and responding to relevant communication from all interested parties.

The processes detailed below are to be managed by the Site Manager.

Complaints are recorded using the Complaints Record Form (Appendix 3) and appended to the Site Diary, and are to be retained on site.

6.2 Internal Communication

Employees and contractors are kept informed of internal environmental communications, which may also include changes to the AQMP, through the following methods:

- Notice boards;
- Specific job function environmental training;
- Management reviews and meeting minutes; and
- Contractor inductions.

6.3 External Communication

External communication with the public and other interested parties is undertaken primarily through the Quattro UK Ltd website.

Environmental complaints are logged on a Complaints Record Form (Appendix 3) and managed by the Site Manager, with records of the outcome retained.

Other relevant communications from interested parties concerning the AQMP and associated components will be logged in the Site Diary by the Site Manager and reviewed by the Health and Safety Representative intermittently. All suitable requests for information will be responded to within two weeks.

Records of external communications shall be maintained on site.

6.4 Site Diary

A Site Diary is kept on-site. The Site Diary will be used to record:

- Daily site activities;
- Daily weather conditions;
- The time, date and result of the routine site inspections;
- The time and date of any exceptional dust incident on or off-site, and any steps taken to remedy the incident;
- The details of any complaint and the action taken relating to the complaint; and
- The results of the dust monitors.

The Site Diary will be updated daily. Any photographs taken will be appended to the diary.

6.5 Complaints

The following actions will be taken in the event of the observation of dust escaping the site boundary or complaints:

- On-site activities will be immediately inspected to identify likely sources;

- If on-site sources are identified as being responsible for off-site dust, the relevant activities will be halted until remedial activities can be implemented (e.g. wetting down, road sweeping, sheeting up);
- The activity will then be monitored to ensure that the mitigation measures are working and there is no repeat incident;
- Should a complaint be received the complainant will be contacted by the site manager to follow up within two days of receiving the complaint;

Incidents and actions taken will be recorded in the Site Diary and complaints recorded using the Complaint Record Form (Appendix 3).

All complaints received would be reviewed on a weekly basis by the site manager to identify if there are any particular processes or activities giving rise to complaints. The findings of this review would be shared with the senior management team. Where a particular process or action is giving rise to complaints, or if numerous complaints are received during a week a meeting would be held with the site manager and Senior Management team to review mitigation measures and identify corrective action to improve dust mitigation.

APPENDIX 1 SITE PLANS

[illegible]

- 1 Recycling plant (Refer to separate drg)
- 2 Building for Incoming waste
- 3 Concrete batching plant (Refer to separate drg)
- 4 Material stockbays – covered and automatic sprinkler system installed (10m cc) to edge of canopy to assist with dust mitigation control
 - 4a) Aggregate material stockbays
 - 4b) Recycled material stockbays
- 5 8m easement for future foul sewer LBH (no build zone)
- 6 'IN' and 'OUT' weighbridges
- 7 Welfare/Office
- 8 Car parking (25+1spaces)
- 9 Covered cycle store (20 cycles) with provision for 1 No adapted cycle
- 10 Service parking
- 11 Area of operation for mobile dust suppression spray unit (hatched area)
- 12 *blue line – Sleeper and steel wall (refer to separate drg). 500mm high concrete stub with sleeper and steel 3.0m high built from concrete wall. Wind supports required at relevant intervals. Automated sprinkler system installed (10m c/c) to top of wall to assist with dust mitigation.
- 13 Wheelwash + water tank
- 14 'Sorted' waste out area
- 15 Building for outgoing waste
- 16 Electrical Substation/Switchroom 01032/E/P46
- 17 Electrical Switchroom
- 18 Barrier controlled in/out concrete transport
- 19 Security Office
- 20 Weighbridge Office (raised structure)
- 21 Pedestrian walking route
- 22 *magenta line – Concrete wall, 5m high. Automated sprinkler system installed (10m c/c) to top of wall to assist with dust mitigation.
- 23 Short canopy cover over concrete wall



R	Updated to clients requirements	PR	29.04.20	OK	OK
Q	Updated to clients requirements	PR	29.04.20	OK	OK
P	Update to comments	PR	14.03.20	OK	OK
N	Minor adjustment	PR	04.03.20	OK	OK
M	Minor adjustment	PR	06.02.20	OK	OK
L	Updated to comments	PR	31.01.20	OK	OK
K	Updated to comments	PR	27.01.20	OK	OK
J	Adjustments to improvements shown	PR	14.01.20	OK	OK
H	Proposed improvements shown in layout	PR	03.12.19	OK	OK
G	As built issue	PR	02.10.19	OK	OK
F	Change layout to client's request	PR	07.08.17	OK	OK
E	Change layout to client's request	PR	19.05.17	OK	OK
D	Reduced site width	PR	28.04.17	OK	OK
C	Minor layout adjustments	PR	27.03.17	OK	OK
B	Minor layout adjustments	PR	27.03.17	OK	OK
A	Minor layout adjustments	PR	24.03.17	OK	OK
Rev	Description	By	Date	CHK'd	Auth

**MARKS
HEELEY**

THE STABLES
CANNONS MILL LANE
BISHOPS STORTFORD
HERTFORDSHIRE CM23 2BN

TELEPHONE: 01279 405900
FACSIMILE: 01279 405999
GENERAL@MARKSHEELEY.CO.UK

CONSULTING STRUCTURAL AND CIVIL ENGINEERS

Client

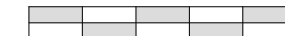
QUATTRO

Project	SOUTHALL LANE, HAYES UB2 5XJ
---------	---------------------------------

Title	PROPOSED SITE LAYOUT
-------	----------------------

Sheet Size A3 Original Scale As Shown Designed/Drawn PR Checked GN Authorised GN				
Date 23.03.17		Date 23.03.17		Date 23.03.17
Status P	Drawing Number H11930-11			Rev R

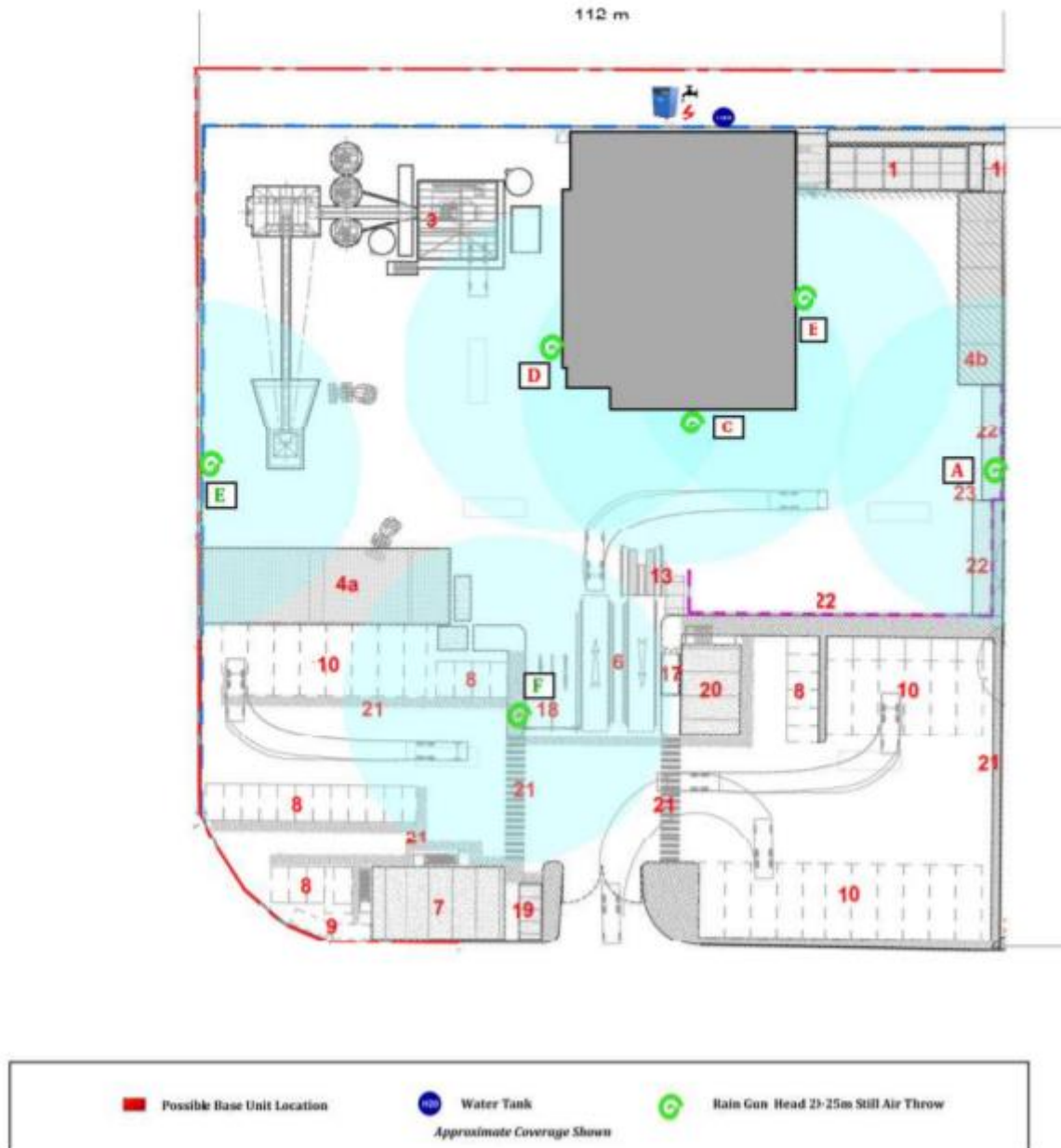
0m 10m 20m 30m 40m 50m

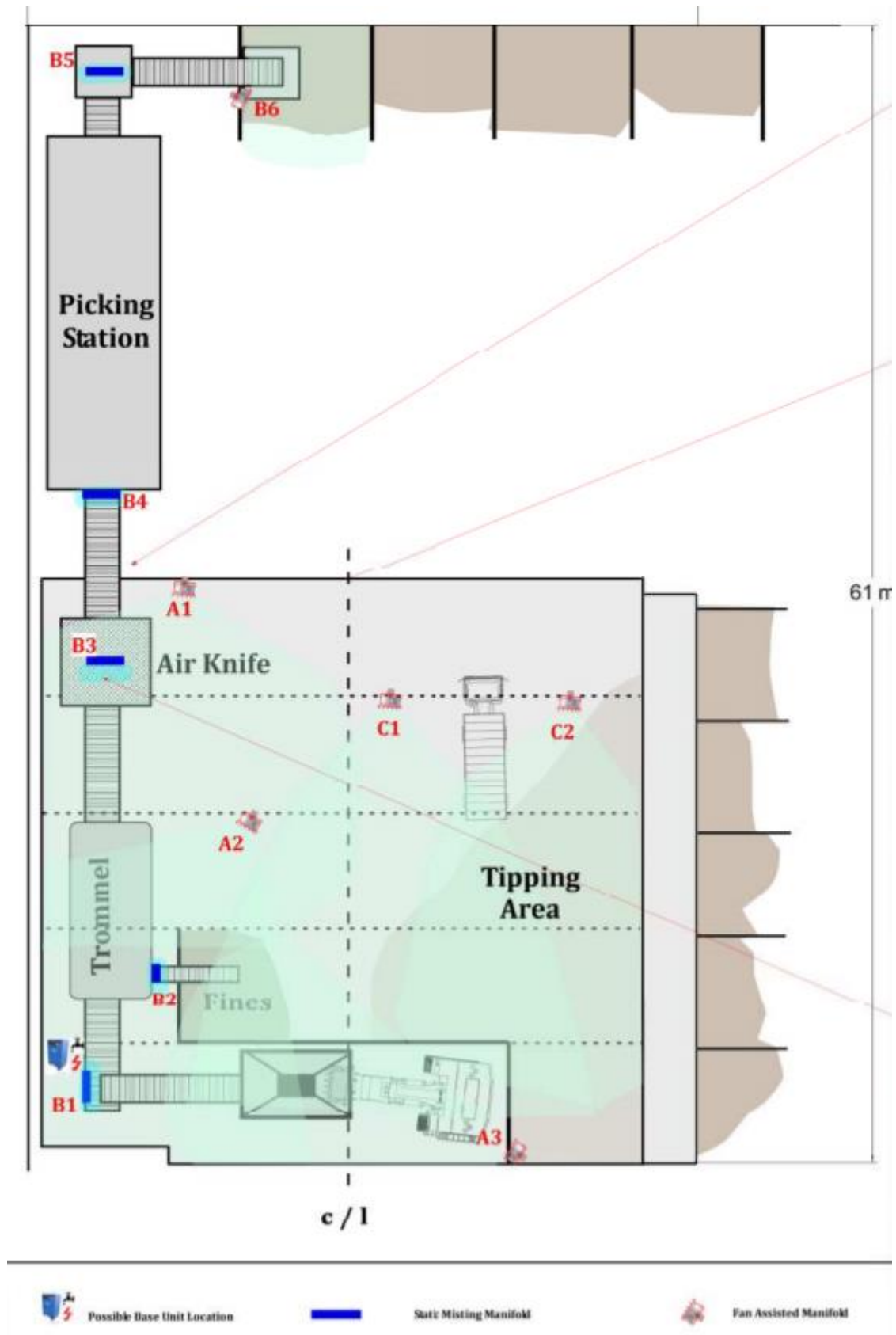


APPENDIX 2

DUST SUPPRESSION SYSTEM PLANS

Site drawing for Rain Gun System.





APPENDIX 3

DUST MONITORING FORM



Version 1.0
July 2018

Dust Management Plan
Southall Lane C&D WRF and CBP
Quattro UK Ltd

Dust Monitoring Sheet

Date:

Time:

Weather:

Wind Direction:

Wind Speed:

Site Activities being Carried Out:

Table 1: Inspection Log			
Location	Checked (✓/×)	Observation – any visible dust emissions? Any dust deposition? Direction of plume?	Additional Controls Required? (✓/×)
North Boundary			
East Boundary			
South Boundary			
West Boundary			
Site Yard			
Access Road			
Wheel Wash			
CBP			
WRF			
Material Storage			
Costco Car Park			
Conducted By	Date	Time	Signature

If the need for additional dust mitigation is identified above, fill Table 2

Table 2: Additional Mitigation Log			
Location	Additional Control/Mitigation Applied	Observation after applying additional controls – any visible dust emissions? Any dust deposition?	Additional Controls Required? (✓/×)
North Boundary			
East Boundary			
South Boundary			
West Boundary			
Site Yard			
Access Road			
Wheel Wash			
CBP			
WRF			
Storage			
Costco Car Park			
Name	Date	Time	Signature

In the event that the above is not adequate to control dust emissions, all on-site activities will cease until further dust suppression can be applied or weather conditions change.

APPENDIX 4

COMPLAINTS RECORD FORM



Version 1.0

July 2018

Dust Management Plan
Southall Lane C&D WRF and CBP
Quattro UK Ltd

Complaints Record Form

Complainant name:	
Address:	
Contact number:	
Date and time of complaint	
Complaint description	
Weather at time of incident (sunny, raining, etc)	
Wind direction	
Wind strength	
Site activities at time of complaint	
Potential reason for complaint (if identified)	
Preventative actions of incident reoccurring:	



Version 1.0
July 2018

Dust Management Plan
Southall Lane C&D WRF and CBP
Quattro UK Ltd

Date of call back to complainant		
Summary of call back conversation		
Was there any significant pollution? Yes ☐ No ☐ If Yes, the Environment Agency must be informed ASAP (tel. 0800 807060). Please confirm if this has been actioned and provide details below. Yes ☐ No ☐ N/A ☐ Time reported: Date reported: EA incident number:		
Name <i>(please print)</i>	Signature	Date