Bioaerosol Sampling Report

Bryn Lane MBT (Phase 2)

FCC Environment

03rd November 2023

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Approval Sheet

Customer:	FCC Environmental
Site:	Bryn Lane MBT, Wrexham Recycling Park, Bryn Lane, Wrexham LL13 9UT
Project title:	Bioaerosols Sampling
Project Manager:	
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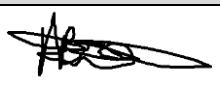
1	Final	04/12/2023	A.Balkwill-White		04/12/2023
			Approved By	Signature	Date
			A. Hammersley		14/12/2023

Foreword

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Enitial cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered outside the agreed scope of works.

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1.0 Scope of Work

Enitial was tasked with providing Bioaerosol monitoring for FCC Environment at Bryn Lane MBT (Phase 2) located within Wrexham Recycling Park, Bryn Lane, LL13 9UT.

Due to the potential health risks posed by the facility to nearby receptors, the testing was conducted to assess the amount of airborne bioaerosols being generated by the site that is released into the local environment. The monitoring is to ensure that this exposure is below the industry standard threshold set by the Environmental Agency.

Due to the complex layout and proximity of the site facility to other buildings an agreement has been made between the regulator NRM and FCC Environment Ltd. This is an amendment to the standards by the Environment Agency Technical Guidance Note (Monitoring) M9 to produce a modified site strategy.

FCC agree with NRW that the nearest sensitive receptor to the composting operation for sampling is the Household Waste Recycling Centre (HWRC), which is approximately 110-130m from the emission stack with the centre of the HWRC estimated to be 160-165m.

The work was carried out on 03rd November 2023. This document is a presentation of the resulting data.

2.0 Background

The bioaerosol monitoring was specifically undertaken to enumerate the quantity of micro-organisms that can be cultured from representative samples of ambient air, collected at pre-determined monitoring points in the locality of the site.

The monitoring was undertaken in accordance with Environment Agency Technical Guidance Note (Monitoring) M9 – Environmental monitoring of bioaerosols at regulated facilities – July 2018.

Pre-prepared agar sample plates for *Aspergillus fumigatus,* mesophilic micro-organisms (bacteria) were directly impacted with ambient air using an Andersen sampler at the four selected sampling locations.

In the UK no statutory limits have been set for ambient concentrations of bioaerosols. However, as per the Environmental Agency Technical Guidance Note M17, guideline levels have been set for acceptable levels at sensitive receptors as the following:

- Total bacteria: 1000 cfu/m^3
- Aspergillus Fumigatus: 500 cfu/m^3
- Gram Negative Bacteria: 300 cfu/m^3

3.0 Methodology

3.1 Sampling Locations

Sample locations should be determined prior to the commencement of the sampling event where possible. The sampling locations have been set by NRW and FCC and were determined to achieve:

- Upwind sample location 001: One sampling location directly upwind of the centre of the IVC facility at the emissions stack.
- Downwind sample location 002: One location directly downwind of the IVC facility at the emissions stack.
- Sensitive Receptor sample location 003: One location at the nearest sensitive receptor, being the HWRC.

The selection of appropriate locations should be made by consulting the site plan and in consultation with Enitial's account manager, the Client and/or Site/Facility Manager. Upwind sampling should be performed concurrently with downwind sampling. Locations can be adjusted if necessary if locations are unable to be used due to obstacles or health and safety issues as stated in the M9 document. Should a building, installation or structure intervene between the downwind site and the operational area, then sampling should be carried out upwind of that feature at a distance greater than twice its height.

3.2 Agar Plates

The types of Agar used were:

- *Mesophilic micro-organisms*: (Total Viable Count [TVC]) – Half Strength Nutrient Agar (also known as 93's – white in colour)
- *Aspergillus Fumigatus* / Total Fungi: (colony-forming unit [cfu]) – Malt Extract Agar (also known as 94's – light yellow in colour)
- *Gram Negative*: MacConkey (MAC) Agar + 0.2 g/L cyclohexamide (also known as VRBGA - pink in colour)

The impacted agar plates were subsequently delivered to a specialist laboratory within 24 hours via a cool box with ice packs where they were cultured and enumerated.

3.3 Equipment

3.31 List of Equipment

The equipment used is as follows:

- Continuous operation mobile weather station (wind speed, direction, temperature, humidity) and tripod
- Digital stopwatch
- GPS device
- 4 x single-stage Andersen samplers
- 4 x tripods
- 4 x hemicylindrical baffles
- 4 x stoppers for Andersen samplers
- 4 x fully charged vacuum pumps (individual capacity of at least 35l per min) and connecting tubing
- Rotameter to fit vacuum pump
- Agar plates – variety dependent on required test
- 2 x sealable airtight sterile plastic containers
- Cool box with ice packs for transport
- 70% v/v aqueous solution / wipes of ethanol or industrial methylated spirits cleaning solution or other suitable disinfectants

3.32 Cleaning of Equipment

All parts of the sampling equipment that were in contact with the samples, work surfaces or storage containers were cleaned with a 70% aqueous solution or wipes of ethanol or methylated spirits, or other suitable disinfectants prior to use. Equipment was completely dried, through air drying before the sampling exercise was commenced.

On completion of cleaning the Andersen single-stage samplers, a stopper was placed in the cone entrance to stop any contamination occurring before the sampling event.

3.33 Setup and Operation

- The pumps were Pre-run for a specified time at the required flow rate of 28.3l/min (±2%). This pump test was undertaken once before the start of the monitoring exercise.
- The Andersen single-stage samplers were mounted on to the tripods securely at a height of 1.5-1.8m above ground and the baffles were fitted on the tripod to form a rear shield when aligned to the desired sampling direction.
- The vacuum pump was connected to the rotameter using an appropriate length and diameter of the tubing. Using the rotameter, the flow rate was adjusted to ensure it is running at a constant flow of 28.3l/min (±2%) for each pump.
- On completion of the pump test, the tubing from the dry gas flow meters was disconnected from the rotameter then connected to the inlet on the corresponding Andersen single-stage sampler.
- Fresh sample plates were installed in turn by removing the lid and being placed within the Andersen single-stage sampler
- The stoppers in the inlet of the Andersen single-stage samplers were removed.
- When the Andersen single-stage samplers were fitted with plates the vacuum pumps were activated and the start time recorded on the stopwatch. All pumps were switched on/off at the same time or at a maximum interval of up to 10% of the total run time.
- When the sample duration was completed the pumps were stopped and the finish time recorded.
- The plates were carefully removed ensuring that no contact was made with the exposed agar surface,
- The dish cover was replaced on to the plate and secured with masking tape.
- Each plate was placed into an individual plastic bag and sealed.
- The plates were stored in an upright, protective and cooled container and transported to the laboratory within 24 hours.
- Control blank samples were taken at the site. The steps stated above were adhered to however the sample pump was not switched on. One of each sample media was inserted within the Andersen single-stage samplers, left in for the same period of sampling time, then packaged.
- Field blank samples were taken. The sample media were placed in re-sealable packaging without being opened.

The impacted agar plates were subsequently delivered to a specialist laboratory via a cool box with an ice pack. The analysis took place within 24 hours from sample collection

4.0 Presentation of Data

The following pages consist of meteorological conditions found on site, a presentation of the estimated concentrations of airborne micro-organisms, a plan displaying sample locations and the laboratory data.

4.1 Field Sampling Report

Site: Bryn Lane (Phase 2) MBT Facility

Site Operator: FCC Environmental

Date: 03th November 2023

Start Time: 11:30
Finish Time: 12:30

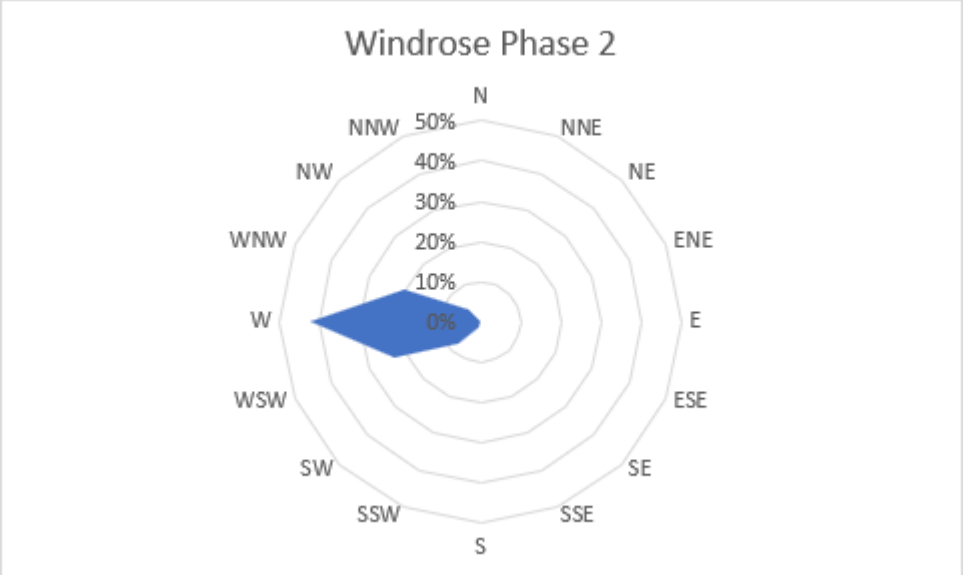
Monitoring Technician ID: A. Lovell, S.Mullen, R.Chau

4.11 Meteorological Conditions

Table 1: Weather Conditions

Parameter	Wind Direction	Wind Speed (m/s)	Pressure (mb)	Temperature (°C)	Cloud Cover (0-8)
Start	WNW	4.9	980	11	5
Finish	WNW	4.9	980	11	5

During the monitoring period winds were detected from the west, west-northwest, west-southwest, south-southwest, southwest and northwest. Below is a wind rose demonstrating the wind directions recorded during the sampling period.



The Wind Rose shows the direction the wind blew from as a percentage of the total wind sampled. The full minute by minute recorded weather data from the site weather station is shown in Appendix B.

4.12 Site Description

FCC Bryn Lane (Phase 2) MBT facility is part of Wrexham Recycling Park in Wrexham Industrial Estate located on Bryn Lane, Wrexham in North Wales.

The MBT facility was fully operational during the sampling period and operating under normal conditions. The nearest sensitive receptor is the Wrexham Household Waste Recycling Centre situated approximately 150m from the MBT facility.

4.2 Field Sampling Comments

Samples were taken at an upwind, downwind location and at a sensitive receptor (see enclosed annotated image Appendix 'A') using Andersen samplers. Ambient air samples were collected by the technique of direct impaction, where a known quantity of air was directed onto an agar plate. The agar samples were then cultured and counted by a specialist laboratory. The count result provides a quantification of the potential health risks posed by the facility to nearby receptors.

Table 2: Sampling Locations

Location	Description	Comments
Upwind location 001	Grass verge next to boundary fence.	Vegetation nearby, close to IVC building infrastructure.
Downwind location 002	On walkway next to site boundary fence and haul road. Occasional vehicle movement.	MBT operational, downwind of stack
Sensitive Receptor location 003	On grass field near to solar farm and HWRC sensitive receptor.	HWRC traffic nearby

4.3 Deviations from Methods

Table 3: Deviations

Location	Deviation	Reason
Upwind Location	Limited distance from the facility and sample location	No access beyond site boundary and site infrastructure.
Downwind Location	Limited distance from the facility and sample location	No access beyond site boundary and site infrastructure.

The locations were assessed to take into account the effect of features and obstructions which may impact the effectiveness of the monitoring. The sampling locations were restricted to where safe physical access was possible along with being legally accessible. (see enclosed annotated image Appendix 'A'). Sampling locations were determined in agreement to the modified sampling strategy as agreed by the NRW regulator and FCC.

4.4 Field Sampling Record

Table 4: Field Sampling Results

Ambient Sampling: Estimated concentration of bioaerosols										
Site: Bryn Lane MBT (Phase 2) Sampling Date: 03/11/2023 Estimated Mass of Materials: Unknown Activities affecting the concentration of Bioaerosols: IVC activities, biofilter stack				Site Operator: FCC Environment Monitoring Contractor: Enitial Type of Materials Processed on Site: Various solid waste Site Activity: Normal MBT operations						
Location and grid reference	Sample reference number	Distance from centre of active area (m)	Difference in bearing between location of samplers and mean direction wind blows to (°)	Sampling start/end times (HH:MM)	Concentration of bioaerosols (CFU/m^3) Total Count (TVC)	Concentration of bioaerosols (CFU/m^3) Aspergillus Fumigatus (YM)	Concentration of bioaerosols (CFU/m^3) Gram Negative Bacteria (GN)	Median of samples		
								TVC (CFU/m^3)	YM (CFU/m^3)	GN (CFU/m^3)
Upwind (1) SJ 38723 49935	UW001BIOAEM. Upwind of MBT emissions stack	44m	183°	11:35-11:40	119	-	-	70	<7	7
				11:35-11:40	-	<7	-			
				11:43-11:48	-	-	7			
				11:43-11:48	21	-	-			
				11:51-11:56	-	<7	-			
				11:51-11:56	-	-	<7			
				11:59-12:04	70	-	-			
				11:59-12:04	-	<7	-			
				12:08-12:13	-	-	<7			

Location and grid reference	Sample reference number	Distance from centre of active area emission stack (m)	Difference in bearing between location of samplers and mean direction wind blows to (°)	Sampling start/end times (HH:MM)	Concentration of bioaerosols (CFU/m^3) Total Count (TVC)	Concentration of bioaerosols (CFU/m^3) Aspergillus Fumigatus (YM)	Concentration of bioaerosols (CFU/m^3) Gram Negative (GN)	Median of samples		
								TVC (CFU/m^3)	YM (CFU/m^3)	GN (CFU/m^3)
Downwind (2) SJ 38800 49928	DW002BIOAEM. Downwind of MBT emissions stack	38m	35°	11:35-11:40	112	-	-	91	21	14
				11:35-11:40	-	21	-			
				11:43-11:48	-	-	<7			
				11:43-11:48	49	-	-			
				11:51-11:56	-	28	-			
				11:51-11:56	-	-	<7			
				11:59-12:04	91	-	-			
				11:59-12:04	-	7	-			
				12:08-12:13	-	-	14			
Receptor (3) SJ 38787 50058	SR001BIOAEM. Receptor location on grassy area near HWRC	142m	102°	11:35-11:40	42	-	-	28	7	119
				11:35-11:40	-	7	-			
				11:43-11:48	-	-	119			
				11:43-11:48	21	-	-			
				11:51-11:56	-	<7	-			
				11:51-11:56	-	-	56			
				11:59-12:04	28	-	-			
				11:59-12:04	-	<7	-			
				12:08-12:13	-	-	364			

Location and grid reference	Sample reference number	Distance from centre of active area (m)	Difference in bearing between location of samplers and mean direction wind blows to (°)	Sampling start/end times (HH:MM)	Concentration of bioaerosols (CFU/m^3) Total Count (TVC)	Concentration of bioaerosols (CFU/m^3) Aspergillus Fumigatus (YM)	Concentration of bioaerosols (CFU/m^3) Gram Negative (GN)	Median of samples		
								TVC (CFU/m^3)	YM (CFU/m^3)	GN (CFU/m^3)
Control	ControlBIOAEM At same location as Upwind	N/A	N/A	N/A	<1	-	-	N/A	N/A	N/A
					-	<1	-			
					-	-	<1			
Field	FieldBIOAEM. Not removed from package. For QA/QC	N/A	N/A	N/A	<1	-	-	N/A	N/A	N/A
					-	<1	-			
					-	-	<1			

4.5 Process Contribution Results

The median is routinely used for statistics and probability theory as the results are less likely to be skewed by extremely high or low values that are not representative of the data set. The median is located by finding the middle value by evenly separating the data set. The median for each location has been calculated and then the highest result for the downwind locations identified. The process contribution has then been calculated by subtracting the upwind median value from the highest downwind median value. The process contribution shows the input the activity of the site has on the ambient bioaerosols concentrations. In the table below the process contribution is shown.

Table 5: Process Contribution Results

Process Contribution Results				
Sample type	Upwind median results	Downwind median highest results	Process Contribution	Sensitive Receptor
Total Bacteria viable Count (TVC)	70	91	**21**	28
Aspergillus fumigatus (YM)	<7	21	**14**	7
Gram Negative Bacteria (GN)	7	14	**7**	119

5.0 Summary of Analytical Results

The above reports indicate that at the time of sampling:

1. Mesophilic micro-organisms - Total Viable Count (TVC) shows higher readings at the downwind location compared to the upwind location.

2. Aspergillus fumigatus readings were not detected at upwind sample location.

3. Gram Negative bacteria readings were detected at upwind, downwind and sensitive receptor sample locations.

4. Upwind location median results remained below the industry standard threshold values of 1000cfu/m^3 for Total Bacteria.

5. Downwind location median process contribution results of **21cfu/m^3** remained below the industry standard threshold values of 1000cfu/m^3 for Total Bacteria.

6. Sensitive receptor location median results remained below the industry standard threshold values of 1000cfu/m^3 for Total Bacteria.

7. Upwind location median results remained below the industry standard threshold values of 300cfu/m^3 for Gram Negative bacteria.

8. Downwind location median process contribution results of **7cfu/m^3** remained below the industry standard threshold values of 300cfu/m^3 for Gram Negative bacteria.

9. Sensitive receptor location median results remained below the industry standard threshold values of 300cfu/m^3 for Gram Negative bacteria.

10. Upwind location median results remained below the industry standard threshold values of 500cfu/m^3 for Aspergillus Fumigatus.

11. Downwind location median process contribution results of **14cfu/m^3** remained below the industry standard threshold values of 500cfu/m^3 for Aspergillus Fumigatus.

12. Sensitive receptor location median results remained below the industry standard threshold values of 500cfu/m^3 for Aspergillus Fumigatus.

13. Control and Field blanks for QA/QC showed no evidence of contamination.

APPENDIX A

Aerial Plan

Key

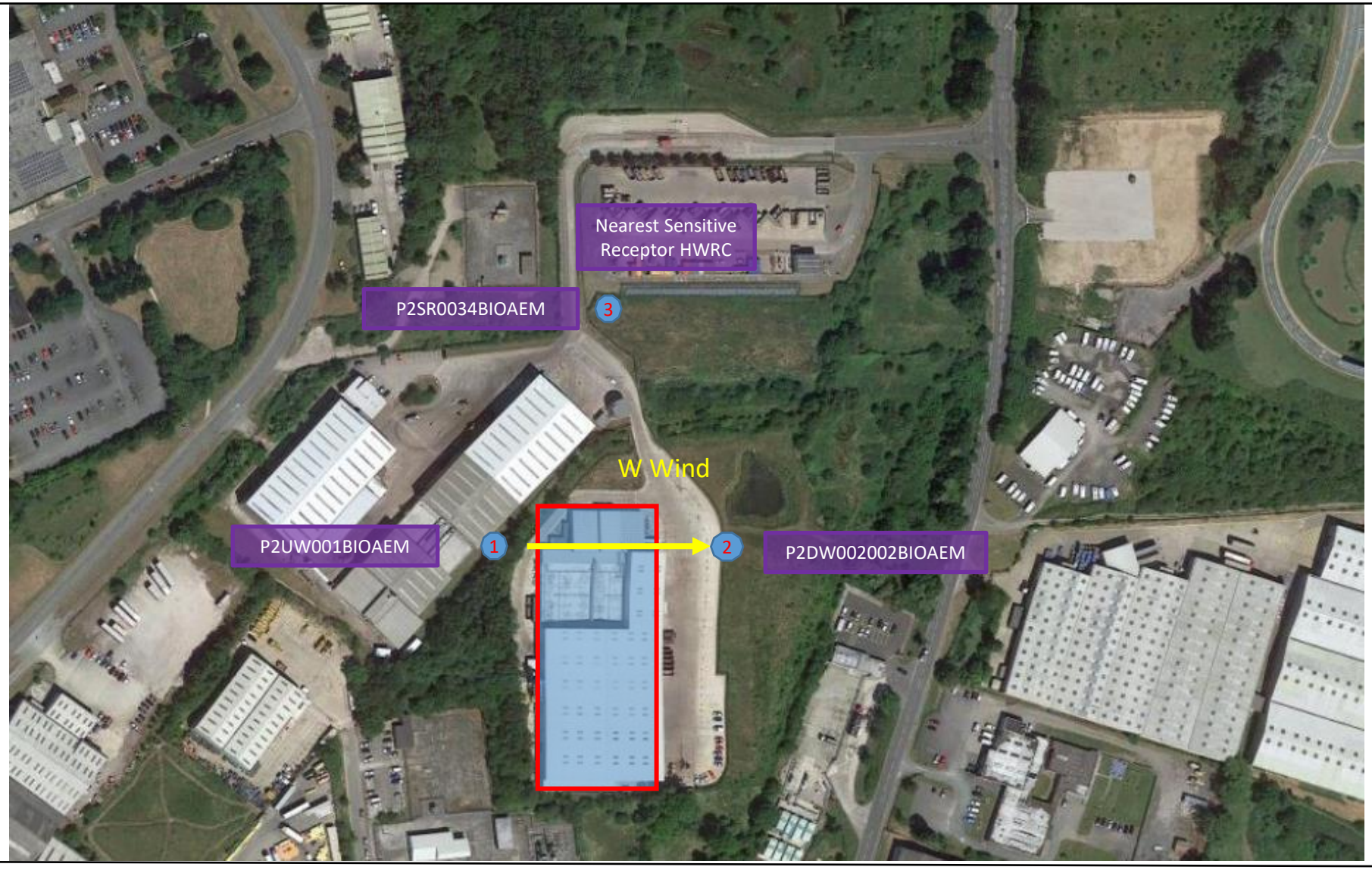
1 – Upwind

2 – Downwind

3 – Sensitive Receptor

Blue area – Emission source

Red Box – Site area



FCC – Bryn Lane Phase 2 MBT 03/11/2023

Aerial Plan Showing Bioaerosol Sample Locations

Enitial part of Cawood

APPENDIX B
Meteorological Conditions

METEOROLOGICAL CONDITIONS

SITE:	Bryn Lane MBT (Phase 2)	SITE OPERATOR:	FCC Environmental
SAMPLING DATE:	03/11/2023	COMMISSIONING LABORATORY:	Southern Microbiological Services
ESTIMATED MASS OF MATERIALS:	Unknown	TYPE OF MATERIALS PROCESSED ON SITE:	Various solid waste

Location	Sample Reference Number	Bearing of samplers from boundary of operational area or turning/ screening operation (° from true north) - GPS	Mean direction the wind blows to during the sampling period (° from true north)	Difference in bearing between location of samples from boundary/ source and mean direction wind blows to (°)	Mean wind speed during sampling (m/s)	Arithmetic mean of air temperature (°C)	Arithmetic mean of relative humidity (%)
Upwind	UW001BIOAEM	293 SJ 38723 49935	110	183	4.9	11	78
Downwind	DW002BIOAEM	75 SJ 38800 49928	110	35	4.9	11	78
Sensitive Receptor	SR001BIOAEM	8 SJ 38784 50058	110	102	4.9	11	78

Raw Weather Station Data for Bryn Lane IVC Phase 2

Units: Ter	Wind mph																				
		Rain mm	Pressure mb																		
stationid	datestamp	metardate	wspeed	w10min	wdir	wsector	tout	tdew	tin	hin	hout	rday	rmonth	ryear	rrate	pressure	clouds1	touthi	toutlo	wgus	wgust
WRCL	03/11/2023 11:00	31100	15.88	8.05	243	WSW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.31	CAL:017	11.5	11.4	33	15.88
WRCL	03/11/2023 11:01	31101	15.88	8.5	250	WSW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.31	CAL:017	11.4	11.4	38	15.88
WRCL	03/11/2023 11:02	31102	15.88	7.61	295	WNW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.31	CAL:017	11.4	11.4	28	15.88
WRCL	03/11/2023 11:03	31103	15.88	6.93	262	W	11.4	7.3	32.9	0	76	0	12	501.2	0	979.4	CAL:017	11.4	11.4	28	15.88
WRCL	03/11/2023 11:04	31104	15.88	7.16	279	W	11.4	7.3	32.9	0	76	0	12	501.2	0	979.4	CAL:017	11.4	11.4	33	15.88
WRCL	03/11/2023 11:05	31105	15.88	8.5	261	W	11.4	7.3	32.9	0	76	0	12	501.2	0	979.31	CAL:017	11.4	11.4	47	15.88
WRCL	03/11/2023 11:06	31106	15.88	10.07	293	WNW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.51	CAL:017	11.4	11.4	38	15.88
WRCL	03/11/2023 11:07	31107	15.88	9.17	276	W	11.3	7.2	32.9	0	76	0	12	501.2	0	979.31	CAL:017	11.4	11.3	43	15.88
WRCL	03/11/2023 11:08	31108	12.75	8.28	292	WNW	11.3	7.2	32.9	0	76	0	12	501.2	0	979.4	CAL:017	11.4	11.3	47	12.75
WRCL	03/11/2023 11:09	31109	13.87	9.4	265	W	11.4	7.3	33	0	76	0	12	501.2	0	979.4	CAL:017	11.4	11.3	62	13.87
WRCL	03/11/2023 11:10	31110	13.87	9.62	250	WSW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.4	CAL:017	11.4	11.3	52	13.87
WRCL	03/11/2023 11:11	31111	13.87	8.28	276	W	11.4	7.3	32.9	0	76	0	12	501.2	0	979.51	CAL:017	11.4	11.3	38	13.87
WRCL	03/11/2023 11:12	31112	13.87	7.16	221	SW	11.4	7.3	32.9	0	76	0	12	501.2	0	979.51	CAL:017	11.4	11.3	24	13.87
WRCL	03/11/2023 11:13	31113	13.87	8.05	254	WSW	11.5	7.4	33	0	76	0	12	501.2	0	979.4	CAL:017	11.5	11.3	38	13.87
WRCL	03/11/2023 11:14	31114	13.87	8.05	251	WSW	11.5	7.4	33	0	76	0	12	501.2	0	979.51	CAL:017	11.5	11.4	28	13.87
WRCL	03/11/2023 11:15	31115	13.87	5.59	272	W	11.6	7.68	32.9	0	77	0	12	501.2	0	979.4	CAL:016	11.6	11.4	24	13.87
WRCL	03/11/2023 11:16	31116	13.87	5.82	238	WSW	11.6	7.68	33	0	77	0	12	501.2	0	979.4	CAL:016	11.6	11.4	24	13.87
WRCL	03/11/2023 11:17	31117	13.87	6.71	285	WNW	11.7	7.78	33	0	77	0	12	501.2	0	979.4	CAL:016	11.7	11.4	19	13.87
WRCL	03/11/2023 11:18	31118	13.87	6.26	264	W	11.7	7.59	33	0	76	0	12	501.2	0	979.2	CAL:017	11.7	11.4	33	13.87
WRCL	03/11/2023 11:19	31119	13.87	7.16	276	W	11.7	7.59	33	0	76	0	12	501.2	0	979.51	CAL:017	11.7	11.5	47	13.87
WRCL	03/11/2023 11:20	31120	13.87	7.61	262	W	11.7	7.59	33	0	76	0	12	501.2	0	979.4	CAL:017	11.7	11.6	28	13.87
WRCL	03/11/2023 11:21	31121	13.87	6.04	300	WNW	11.8	7.69	33	0	76	0	12	501.2	0	979.31	CAL:017	11.8	11.6	28	13.87
WRCL	03/11/2023 11:22	31122	13.87	5.82	252	WSW	11.8	7.69	33	0	76	0	12	501.2	0	979.31	CAL:017	11.8	11.7	19	13.87

WRCL	03/11/2023 11:23	31123	10.51	5.37	259	W	11.9	7.78	33	0	76	0	12	501.2	0	979.31	CAL:017	11.9	11.7	28	10.51
WRCL	03/11/2023 11:24	31124	10.51	4.7	255	WSW	11.9	7.78	33	0	76	0	12	501.2	0	979.31	CAL:017	11.9	11.7	19	10.51
WRCL	03/11/2023 11:25	31125	10.51	4.7	255	WSW	11.9	7.78	33	0	76	0	12	501.2	0	979.51	CAL:017	12	11.7	24	10.51
WRCL	03/11/2023 11:26	31126	10.51	4.92	269	W	12.1	7.98	33	0	76	0	12	501.2	0	979.6	CAL:017	12.1	11.8	24	10.51
WRCL	03/11/2023 11:27	31127	10.51	5.59	276	W	12.2	8.07	33	0	76	0	12	501.2	0	979.71	CAL:017	12.2	11.8	28	10.51
WRCL	03/11/2023 11:28	31128	10.51	5.82	245	WSW	12.3	8.17	33.1	0	76	0	12	501.2	0	979.71	CAL:017	12.3	11.8	28	10.51
WRCL	03/11/2023 11:29	31129	10.51	4.92	279	W	12.3	7.97	33.1	0	75	0	12	501.2	0	979.6	CAL:018	12.3	11.9	19	10.51
WRCL	03/11/2023 11:30	31130	10.51	5.14	223	SW	12.4	8.07	33	0	75	0	12	501.2	0	979.6	CAL:018	12.4	12	43	10.51
WRCL	03/11/2023 11:31	31131	12.75	8.05	243	WSW	12.4	8.07	33.1	0	75	0	12	501.2	0	979.6	CAL:018	12.4	12.1	52	12.75
WRCL	03/11/2023 11:32	31132	12.75	9.17	266	W	12.4	8.07	33.1	0	75	0	12	501.2	0	979.6	CAL:018	12.4	12.2	43	12.75
WRCL	03/11/2023 11:33	31133	15.88	8.28	271	W	12.4	7.87	33.1	0	74	0	12	501.2	0	979.4	CAL:018	12.4	12.3	24	15.88
WRCL	03/11/2023 11:34	31134	15.88	7.16	252	WSW	12.4	7.87	33.1	0	74	0	12	501.2	0	979.4	CAL:018	12.4	12.3	24	15.88
WRCL	03/11/2023 11:35	31135	15.88	6.04	228	SW	12.5	7.97	33.1	0	74	0	12	501.2	0	979.51	CAL:018	12.5	12.4	24	15.88
WRCL	03/11/2023 11:36	31136	15.88	4.47	235	SW	12.5	8.17	33.1	0	75	0	12	501.2	0	979.51	CAL:018	12.5	12.4	14	15.88
WRCL	03/11/2023 11:37	31137	15.88	4.92	271	W	12.6	8.26	33.1	0	75	0	12	501.2	0	979.6	CAL:018	12.6	12.4	28	15.88
WRCL	03/11/2023 11:38	31138	15.88	7.16	262	W	12.6	8.07	33.2	0	74	0	12	501.2	0	979.6	CAL:018	12.6	12.4	33	15.88
WRCL	03/11/2023 11:39	31139	15.88	7.38	212	SSW	12.6	8.07	33.1	0	74	0	12	501.2	0	979.6	CAL:018	12.6	12.4	14	15.88
WRCL	03/11/2023 11:40	31140	15.88	6.26	238	WSW	12.5	7.97	33.1	0	74	0	12	501.2	0	979.6	CAL:018	12.6	12.5	28	15.88
WRCL	03/11/2023 11:41	31141	15.88	6.04	268	W	12.5	7.97	33.2	0	74	0	12	501.2	0	979.6	CAL:018	12.6	12.5	24	15.88
WRCL	03/11/2023 11:42	31142	15.88	5.59	268	W	12.5	7.97	33.2	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.5	38	15.88
WRCL	03/11/2023 11:43	31143	13.87	7.61	279	W	12.5	7.97	33.2	0	74	0	12	501.2	0	979.8	CAL:018	12.6	12.5	43	13.87
WRCL	03/11/2023 11:44	31144	13.87	8.05	279	W	12.5	7.97	33.2	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.4	38	13.87
WRCL	03/11/2023 11:45	31145	13.87	8.28	283	WNW	12.4	7.87	33.2	0	74	0	12	501.2	0	979.8	CAL:018	12.6	12.4	33	13.87
WRCL	03/11/2023 11:46	31146	13.87	8.95	323	NW	12.4	7.87	33.2	0	74	0	12	501.2	0	979.8	CAL:018	12.5	12.4	24	13.87
WRCL	03/11/2023 11:47	31147	13.87	6.71	269	W	12.4	7.87	33.2	0	74	0	12	501.2	0	979.71	CAL:018	12.5	12.4	33	13.87
WRCL	03/11/2023 11:48	31148	13.87	5.14	268	W	12.4	7.87	33.2	0	74	0	12	501.2	0	979.8	CAL:018	12.5	12.4	19	13.87
WRCL	03/11/2023 11:49	31149	13.87	4.92	257	WSW	12.5	8.17	33.2	0	75	0	12	501.2	0	979.8	CAL:018	12.5	12.4	19	13.87
WRCL	03/11/2023 11:50	31150	13.87	5.14	292	WNW	12.5	7.97	33.2	0	74	0	12	501.2	0	979.71	CAL:018	12.5	12.4	19	13.87
WRCL	03/11/2023 11:51	31151	13.87	4.92	213	SSW	12.6	8.26	33.3	0	75	0	12	501.2	0	979.8	CAL:018	12.6	12.4	24	13.87
WRCL	03/11/2023 11:52	31152	13.87	5.14	245	WSW	12.5	8.17	33.3	0	75	0	12	501.2	0	979.71	CAL:018	12.6	12.4	14	13.87
WRCL	03/11/2023 11:53	31153	12.75	4.7	234	SW	12.6	8.26	33.3	0	75	0	12	501.2	0	979.71	CAL:018	12.6	12.5	19	12.75
WRCL	03/11/2023 11:54	31154	12.75	6.04	274	W	12.6	8.26	33.3	0	75	0	12	501.2	0	979.8	CAL:018	12.6	12.5	47	12.75
WRCL	03/11/2023 11:55	31155	14.76	9.4	264	W	12.4	7.87	33.3	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.4	43	14.76

WRCL	03/11/2023 11:56	31156	14.76	8.5	220	SW	12.5	7.97	33.3	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.4	33	14.76
WRCL	03/11/2023 11:57	31157	14.76	7.61	259	W	12.4	7.87	33.3	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.4	28	14.76
WRCL	03/11/2023 11:58	31158	14.76	7.83	295	WNW	12.4	7.87	33.3	0	74	0	12	501.2	0	979.71	CAL:018	12.6	12.4	52	14.76
WRCL	03/11/2023 11:59	31159	14.76	7.16	288	WNW	12.4	7.87	33.3	0	74	0	12	501.2	0	979.8	CAL:018	12.5	12.4	19	14.76
WRCL	03/11/2023 12:00	31200	17	8.72	282	WNW	12.3	7.78	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.5	12.3	66	17
WRCL	03/11/2023 12:01	31201	17	9.62	231	SW	12.3	7.58	33.4	0	73	0	12	501.2	0	979.71	CAL:019	12.5	12.3	28	17
WRCL	03/11/2023 12:02	31202	17	8.72	272	W	12.3	7.78	33.4	0	74	0	12	501.2	0	979.8	CAL:018	12.5	12.3	52	17
WRCL	03/11/2023 12:03	31203	17	8.28	264	W	12.3	7.78	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.4	12.3	38	17
WRCL	03/11/2023 12:04	31204	17	9.17	264	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.4	12.2	43	17
WRCL	03/11/2023 12:05	31205	17	8.28	276	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.6	CAL:018	12.4	12.2	24	17
WRCL	03/11/2023 12:06	31206	17	7.16	278	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.3	12.2	28	17
WRCL	03/11/2023 12:07	31207	17	7.61	264	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.3	12.2	47	17
WRCL	03/11/2023 12:08	31208	17	9.62	300	WNW	12.2	7.68	33.4	0	74	0	12	501.2	0	979.91	CAL:018	12.3	12.2	52	17
WRCL	03/11/2023 12:09	31209	18.12	11.86	245	WSW	12.2	7.68	33.4	0	74	0	12	501.2	0	979.8	CAL:018	12.2	12.2	62	18.12
WRCL	03/11/2023 12:10	31210	18.12	12.3	299	WNW	12.2	7.68	33.4	0	74	0	12	501.2	0	979.8	CAL:018	12.2	12.2	52	18.12
WRCL	03/11/2023 12:11	31211	18.12	12.3	250	WSW	12.2	7.68	33.4	0	74	0	12	501.2	0	979.71	CAL:018	12.2	12.2	81	18.12
WRCL	03/11/2023 12:12	31212	18.12	11.86	278	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.8	CAL:018	12.2	12.2	43	18.12
WRCL	03/11/2023 12:13	31213	18.12	10.29	283	WNW	12.2	7.48	33.4	0	73	0	12	501.2	0	979.91	CAL:019	12.2	12.2	38	18.12
WRCL	03/11/2023 12:14	31214	18.12	9.4	272	W	12.2	7.68	33.4	0	74	0	12	501.2	0	979.8	CAL:018	12.2	12.2	43	18.12
WRCL	03/11/2023 12:15	31215	18.12	10.96	258	WSW	12.2	7.48	33.4	0	73	0	12	501.2	0	980	CAL:019	12.2	12.2	38	18.12
WRCL	03/11/2023 12:16	31216	18.12	11.41	305	NW	12.2	7.48	33.4	0	73	0	12	501.2	0	979.91	CAL:019	12.2	12.2	47	18.12
WRCL	03/11/2023 12:17	31217	18.12	10.29	288	WNW	12.3	7.58	33.4	0	73	0	12	501.2	0	979.91	CAL:019	12.3	12.2	62	18.12
WRCL	03/11/2023 12:18	31218	18.12	9.84	271	W	12.3	7.58	33.4	0	73	0	12	501.2	0	979.8	CAL:019	12.3	12.2	19	18.12
WRCL	03/11/2023 12:19	31219	18.12	6.93	268	W	12.3	7.58	33.4	0	73	0	12	501.2	0	980	CAL:019	12.3	12.2	24	18.12
WRCL	03/11/2023 12:20	31220	18.12	5.82	283	WNW	12.3	7.78	33.4	0	74	0	12	501.2	0	979.91	CAL:018	12.3	12.2	28	18.12
WRCL	03/11/2023 12:21	31221	18.12	5.59	309	NW	12.4	7.87	33.4	0	74	0	12	501.2	0	980	CAL:018	12.4	12.2	33	18.12
WRCL	03/11/2023 12:22	31222	18.12	5.37	255	WSW	12.4	7.87	33.4	0	74	0	12	501.2	0	979.91	CAL:018	12.4	12.2	14	18.12
WRCL	03/11/2023 12:23	31223	18.12	5.14	219	SW	12.4	7.87	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.4	12.3	19	18.12
WRCL	03/11/2023 12:24	31224	18.12	4.92	300	WNW	12.5	7.97	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.5	12.3	19	18.12
WRCL	03/11/2023 12:25	31225	13.87	5.14	289	WNW	12.5	7.97	33.5	0	74	0	12	501.2	0	979.91	CAL:018	12.5	12.3	14	13.87
WRCL	03/11/2023 12:26	31226	13.87	4.25	303	WNW	12.5	7.97	33.5	0	74	0	12	501.2	0	979.91	CAL:018	12.5	12.4	28	13.87
WRCL	03/11/2023 12:27	31227	12.75	4.7	274	W	12.6	8.07	33.5	0	74	0	12	501.2	0	979.91	CAL:018	12.6	12.4	19	12.75
WRCL	03/11/2023 12:28	31228	10.51	4.7	257	WSW	12.6	8.07	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.6	12.5	14	10.51

WRCL	03/11/2023 12:29	31229	10.51	3.58	259	W	12.7	8.16	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.7	12.5	14	10.51
WRCL	03/11/2023 12:30	31230	10.51	3.8	228	SW	12.7	8.16	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.7	12.5	19	10.51
WRCL	03/11/2023 12:31	31231	10.51	4.03	333	NNW	12.7	8.16	33.5	0	74	0	12	501.2	0	979.8	CAL:018	12.7	12.6	19	10.51
WRCL	03/11/2023 12:32	31232	10.51	6.26	289	WNW	12.8	8.26	33.5	0	74	0	12	501.2	0	979.91	CAL:018	12.8	12.6	38	10.51
WRCL	03/11/2023 12:33	31233	10.51	8.05	259	W	12.8	8.06	33.6	0	73	0	12	501.2	0	979.8	CAL:019	12.8	12.6	33	10.51
WRCL	03/11/2023 12:34	31234	12.75	8.28	312	NW	12.9	8.15	33.5	0	73	0	12	501.2	0	979.8	CAL:019	12.9	12.7	52	12.75
WRCL	03/11/2023 12:35	31235	13.87	8.05	271	W	12.9	8.15	33.6	0	73	0	12	501.2	0	979.91	CAL:019	12.9	12.7	24	13.87
WRCL	03/11/2023 12:36	31236	14.76	9.17	257	WSW	12.9	8.15	33.6	0	73	0	12	501.2	0	979.91	CAL:019	12.9	12.8	43	14.76
WRCL	03/11/2023 12:37	31237	14.76	9.17	258	WSW	13	8.05	33.6	0	72	0	12	501.2	0	980	CAL:020	13	12.8	19	14.76
WRCL	03/11/2023 12:38	31238	20.13	10.51	296	WNW	13.1	8.35	33.6	0	73	0	12	501.2	0	980	CAL:019	13.1	12.8	85	20.13
WRCL	03/11/2023 12:39	31239	20.13	12.3	293	WNW	13.1	8.14	33.6	0	72	0	12	501.2	0	980	CAL:020	13.1	12.9	38	20.13
WRCL	03/11/2023 12:40	31240	20.13	11.41	259	W	13.1	8.14	33.6	0	72	0	12	501.2	0	980	CAL:020	13.1	12.9	52	20.13
WRCL	03/11/2023 12:41	31241	20.13	11.18	266	W	13.1	8.14	33.6	0	72	0	12	501.2	0	980.11	CAL:020	13.1	12.9	66	20.13
WRCL	03/11/2023 12:42	31242	20.13	12.08	252	WSW	13	8.05	33.7	0	72	0	12	501.2	0	980	CAL:020	13.1	13	38	20.13
WRCL	03/11/2023 12:43	31243	20.13	12.53	286	WNW	12.9	7.95	33.7	0	72	0	12	501.2	0	979.91	CAL:020	13.1	12.9	33	20.13
WRCL	03/11/2023 12:44	31244	20.13	11.63	257	WSW	12.8	7.85	33.7	0	72	0	12	501.2	0	979.91	CAL:020	13.1	12.8	47	20.13
WRCL	03/11/2023 12:45	31245	20.13	10.74	303	WNW	12.9	7.95	33.7	0	72	0	12	501.2	0	979.91	CAL:020	13.1	12.8	52	20.13
WRCL	03/11/2023 12:46	31246	20.13	10.29	258	WSW	12.8	8.06	33.7	0	73	0	12	501.2	0	979.91	CAL:019	13.1	12.8	43	20.13
WRCL	03/11/2023 12:47	31247	20.13	10.96	271	W	12.8	8.06	33.7	0	73	0	12	501.2	0	980	CAL:019	13	12.8	47	20.13
WRCL	03/11/2023 12:48	31248	20.13	10.07	271	W	12.8	7.85	33.8	0	72	0	12	501.2	0	979.91	CAL:020	12.9	12.8	38	20.13
WRCL	03/11/2023 12:49	31249	20.13	8.72	241	WSW	12.8	8.06	33.8	0	73	0	12	501.2	0	980.11	CAL:019	12.9	12.8	33	20.13
WRCL	03/11/2023 12:50	31250	20.13	9.62	279	W	12.8	8.06	33.8	0	73	0	12	501.2	0	980	CAL:019	12.8	12.8	43	20.13
WRCL	03/11/2023 12:51	31251	20.13	10.74	275	W	12.7	7.96	33.8	0	73	0	12	501.2	0	980	CAL:019	12.8	12.7	43	20.13
WRCL	03/11/2023 12:52	31252	18.12	9.17	255	WSW	12.7	7.96	33.8	0	73	0	12	501.2	0	980.11	CAL:019	12.8	12.7	33	18.12
WRCL	03/11/2023 12:53	31253	17	9.62	312	NW	12.7	7.96	33.8	0	73	0	12	501.2	0	979.91	CAL:019	12.8	12.7	43	17
WRCL	03/11/2023 12:54	31254	17	11.18	276	W	12.7	7.76	33.9	0	72	0	12	501.2	0	980.11	CAL:020	12.8	12.7	24	17
WRCL	03/11/2023 12:55	31255	17	7.83	244	WSW	12.7	7.96	33.9	0	73	0	12	501.2	0	980	CAL:019	12.7	12.7	24	17
WRCL	03/11/2023 12:56	31256	17	5.37	282	WNW	12.7	7.96	33.9	0	73	0	12	501.2	0	980	CAL:019	12.7	12.7	28	17
WRCL	03/11/2023 12:57	31257	17	8.95	274	W	12.7	7.96	33.9	0	73	0	12	501.2	0	980	CAL:019	12.7	12.7	52	17
WRCL	03/11/2023 12:58	31258	17	12.08	276	W	12.7	7.76	33.9	0	72	0	12	501.2	0	980	CAL:020	12.7	12.7	66	17
WRCL	03/11/2023 12:59	31259	17	11.18	275	W	12.6	7.66	33.9	0	72	0	12	501.2	0	980	CAL:020	12.7	12.6	52	17
WRCL	03/11/2023 13:00	31300	17	10.74	293	WNW	12.6	7.86	33.9	0	73	0	12	501.2	0	980.11	CAL:019	12.7	12.6	47	17

APPENDIX C
Photograph Sheet

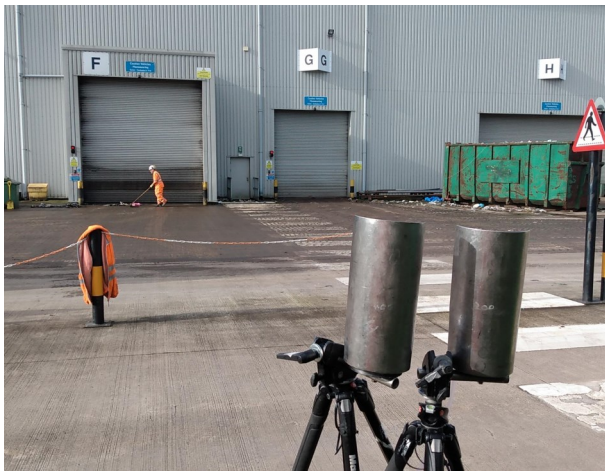
MONITORING PHOTOGRAPH RECORD

Site: FCC Bryn Lane Phase 2—MBT **Date:** 03/11/2022

Title: Bioaerosol Sampling **Ref:** BLP21123

Upwind 001 location looking towards site

Upwind 001 location looking away from site



Downwind 002 location looking towards site

Downwind 002 location looking away from site

Sensitive Receptor 003 location looking towards site

Sensitive Receptor 003 location looking away from site

APPENDIX D
Laboratory Certificate

SOUTHERN MICROBIOLOGICAL SERVICES LTD

Unit3, Georges Farm, West Buckland, Wellington, Somerset, TA21 9LE
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Email: laboratory@smslab.co.uk Website: www.smslab.co.uk

Enitial
Enterprise Drive
Four Ashes,
Wolverhampton
WV10 7DE

TEST REPORT

Report Reference: 1231101005
Date Reported: 09 November 2023

Enitial Anderson Plates PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

						*	*	
SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC cfu/m3 (2 day pr*	*Asp fumigatus cfu/m3*	*Gram neg Bacteria cf*
1231105096	06/11/23	P2UW001BIO AEM (93.)	---	141.5	---	119 cfu/m3		
1231105097	06/11/23	P2UW001BIO AEM (94.)	---	141.5	---		< 7 cfu/m3	
1231105098	06/11/23	P2UW001BIO AEM (VR.)	---	141.5	---			7 cfu/m3
1231105099	06/11/23	P2UW001BIO AEM (93.A)	---	141.5	---	21 cfu/m3		
1231105100	06/11/23	P2UW001BIO AEM (94.A)	---	141.5	---		< 7 cfu/m3	
1231105101	06/11/23	P2UW001BIO AEM (VR.A)	---	141.5	---			< 7 cfu/m3

Enitial Anderson Plates PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

						*	*	
SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC cfu/m3 (2 day pr*	*Asp fumigatus cfu/m3*	*Gram neg Bacteria cf*
1231105102	06/11/23	P2UW001BIO AEM (93.B)	---	141.5	---	70 cfu/m3		
1231105103	06/11/23	P2UW001BIO AEM (94.B)	---	141.5	---		< 7 cfu/m3	
1231105104	06/11/23	P2UW001BIO AEM (VR.B)	---	141.5	---			< 7 cfu/m3
1231105105	06/11/23	P2DW002BIO AEM (93.)	---	141.5	---	112 cfu/m3		
1231105106	06/11/23	P2DW002BIO AEM (94.)	---	141.5	---		21 cfu/m3	
1231105107	06/11/23	P2DW002BIO AEM (VR.)	---	141.5	---			< 7 cfu/m3
1231105108	06/11/23	P2DW002BIO AEM (93.A)	---	141.5	---	49 cfu/m3		
1231105109	06/11/23	P2DW002BIO AEM (94.A)	---	141.5	---		28 cfu/m3	
1231105110	06/11/23	P2DW002BIO AEM (VR.A)	---	141.5	---			< 7 cfu/m3
1231105111	06/11/23	P2DW002BIO AEM (93.B)	---	141.5	---	91 cfu/m3		
1231105112	06/11/23	P2DW002BIO AEM (94.B)	---	141.5	---		7 cfu/m3	
1231105113	06/11/23	P2DW002BIO AEM (VR.B)	---	141.5	---			14 cfu/m3

Enitial Anderson Plates PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

						*	*	
SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC cfu/m3 (2 day pr*	*Asp fumigatus cfu/m3*	*Gram neg Bacteria cf*
1231105114	06/11/23	P2SR003BIOAEM (93.)	---	141.5	---	42 cfu/m3		
1231105115	06/11/23	P2SR003BIOAEM (94.)	---	141.5	---		7 cfu/m3	
1231105116	06/11/23	P2SR003BIOAEM (VR.)	---	141.5	---			119 cfu/m3
1231105117	06/11/23	P2SR003BIOAEM (93.A)	---	141.5	---	21 cfu/m3		
1231105118	06/11/23	P2SR003BIOAEM (94.A)	---	141.5	---		< 7 cfu/m3	
1231105119	06/11/23	P2SR003BIOAEM (VR.A)	---	141.5	---			56 cfu/m3
1231105120	06/11/23	P2SR003BIOAEM (93.B)	---	141.5	---	28 cfu/m3		
1231105121	06/11/23	P2SR003BIOAEM (94.B)	---	141.5	---		< 7 cfu/m3	
1231105122	06/11/23	P2SR003BIOAEM (VR.B)	---	141.5	---			364 cfu/m3

Enitial Anderson Plates PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

						*	*
SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC cfu/m3 (2 day pr*	*Asp fumigatus cfu/m3*	*Gram neg Bacteria cf*

Unless otherwise indicated, all samples were received in good condition, tests were performed at the above address and results apply to the sample as received. Date tested equals date received.

Where there is a greater than 40% difference in bacterial duplicates, these are genuine results.

Carol Macready
Technical Administration Manager

* Tests marked with a * in this report are not included in the UKAS Accreditation Schedule for our laboratory

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TEST REPORT

Report Reference: 1231101006
Date Reported: 09 November 2023

Enitial Anderson Plates Controls PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC/plate*	*Asp. Fumigatus Plate*	*Gram neg bacteria Pl*
1231105127	06/11/23	P2CONTROL BIOAEM (93-C)	---	---	---	< 1 cfu / plate		
1231105128	06/11/23	P2CONTROL BIOAEM (94-C)	---	---	---		< 1 cfu / plate	
1231105129	06/11/23	P2CONTROL BIOAEM (VR-C)	---	---	---			< 1 cfu / plate
1231105130	06/11/23	P2FIELDBIOAEM (93-F)	---	---	---	< 1 cfu / plate		
1231105131	06/11/23	P2FIELDBIOAEM (94-F)	---	---	---		< 1 cfu / plate	
1231105132	06/11/23	P2FIELDBIOAEM (VR-F)	---	---	---			< 1 cfu / plate

Enitial Anderson Plates Controls PO-ENI103842 Date Sampled: 03.11.23 Site: Bryn Lane Phase 2 MBT

SMS Reference	Date Tested	Sample Code	Sample Details	Ltrs of Air filtered	Further Details 2	*TVC/plate*	*Asp. Fumigatus Plate*	*Gram neg bacteria Pl*

Unless otherwise indicated, all samples were received in good condition, tests were performed at the above address and results apply to the sample as received. Date tested equals date received.

Carol Macready
Technical Administration Manager