

## Acoustics Monitoring Sheet

**Project Title** MVV EfW CHP facility

**Date** 03.12.14

**Work Stage** Out of Hours Internal Working and NDT

**Operator** DE

**Location Ref.**

**Start Time** 19:24

**Location Address** Cardinal Ave

**Stop Time** 19:54

**Equipment set up**

SLM	SLM serial no		Mic Serial no	
1	B&K 2238	✓		

Calibrator	Cal serial no.	
B&K 4231		✓


Equipment checklist		
Check date and time		✓
Wind shield correction		✓
Correction set to frontal		✓
Logging period	5min	✓
Available memory		✓
Battery voltage		✓
Internal battery removed		x
Mic height above ground	1.3	✓
Distance from façade/Free Field	FF	✓

System calibration check	
Calibration level at start	93.3
Calibration level at end	93.3
Lowest Noise Level*	24.7

*\*To check lowest noise leave the calibrator on the microphone and switch off the calibrator. Wait until settled (ideal <30dB). If possible use a dummy microphone.*

**Set up checked**

Signed:



Equipment performance OK?	
start:	✓
end:	✓

Weather Conditions	Start	End
Wind Speed	0.5ms	0.5ms
Wind Direction *	N	N
Cloud cover (in 1/8ths)	3/8	3/8
Temperature	4	4
Other notes		

ms <sup>-1</sup>	mph	Description	Effects
0.0-0.4	0-1	Calm	smoke rises vertically
0.4-1.3	1-3	Light air	smoke drifts in wind
1.8-3.1	4-7	Light Breeze	leaves rustle/wind felt on face
3.6-5.0	8-11	Gentle Breeze	small twigs in constant motion
5.0+	<b>11.2+</b>	<b>DO NOT MEASURE ABOVE THIS SPEED</b>	

**Subjective Assessment of Noise Environment**

**Dominant Noise:**

Road traffic - Wolseley Road, Cardinal Ave

**Secondary Noise:**

Trains

**Additional Notes (record any information pertinent to the measured noise levels)**

No site noise noticeable





## Acoustics Monitoring Sheet - Calculations

Site: Cardinal Ave  
 Date: 03.12.14  
 Meter: B&K 2238

BREAKDOWN OF RESULTS - 5 Minute Periods					
Start time	Duration	LAeq (dB)	LAFmax (dB)	LAF90 (dB)	Notes
03/12/2014 19:24	05:00.0	51.4	74.6	42.5	
03/12/2014 19:29	05:00.0	46	60.8	43.5	
03/12/2014 19:34	05:00.0	44.9	57.6	43	
03/12/2014 19:39	05:00.0	50.1	65.5	43.5	
03/12/2014 19:44	05:00.0	44.2	55.9	42	
03/12/2014 19:49	05:00.0	43.6	47.8	42.5	
		<b>48</b>	<b>75</b>		

RESULTS
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		F.F	FAÇADE
Measured LAeq	mins	48	51

Estimated LAeq,1hr (adjusted to account for extraneous off-site noise sources) (FAÇADE)	51
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Measured LAmax,fast		75	78
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Maximum Permitted Noise Level, LAeq,1hr (FAÇADE) *	56
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* BASELINE NOISE LEVELS AND NOISE LIMITS FOR INTERNAL WORKING				
Location	Time	Ambient LAeq,4hr (dB)		Noise Limits LAeq,1hr dB
		<i>Free Field</i>	<i>Façade</i>	<i>Façade</i>
R3 (Savage Road)	Weekend	-	54	59
	Weekday	-	51	56
R15 (Talbot Gardens)	Weekend	-	45	50
	Weekday	-	43	48
Cardinal Ave	Weekend	51	54	59
	Weekday	48	51	56

BREACH OF NOISE LEVEL
Cause:
Action to be Taken: