

Scotland England Green Link 2 - English Onshore Scheme

Environmental Statement:
Volume 3 - Appendices

Appendix 13B - Baseline Noise Surveys

Quality information

Prepared by	Checked by	Verified by	Approved by
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Revision History

Revision	Revision date	Details	Authorized	Name	Position
1	May 2022	FINAL			

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Appendix 13B Baseline Noise Surveys

13B.1 Further Long-Term Data

13B.1.1. LT1 – Wilsthorpe

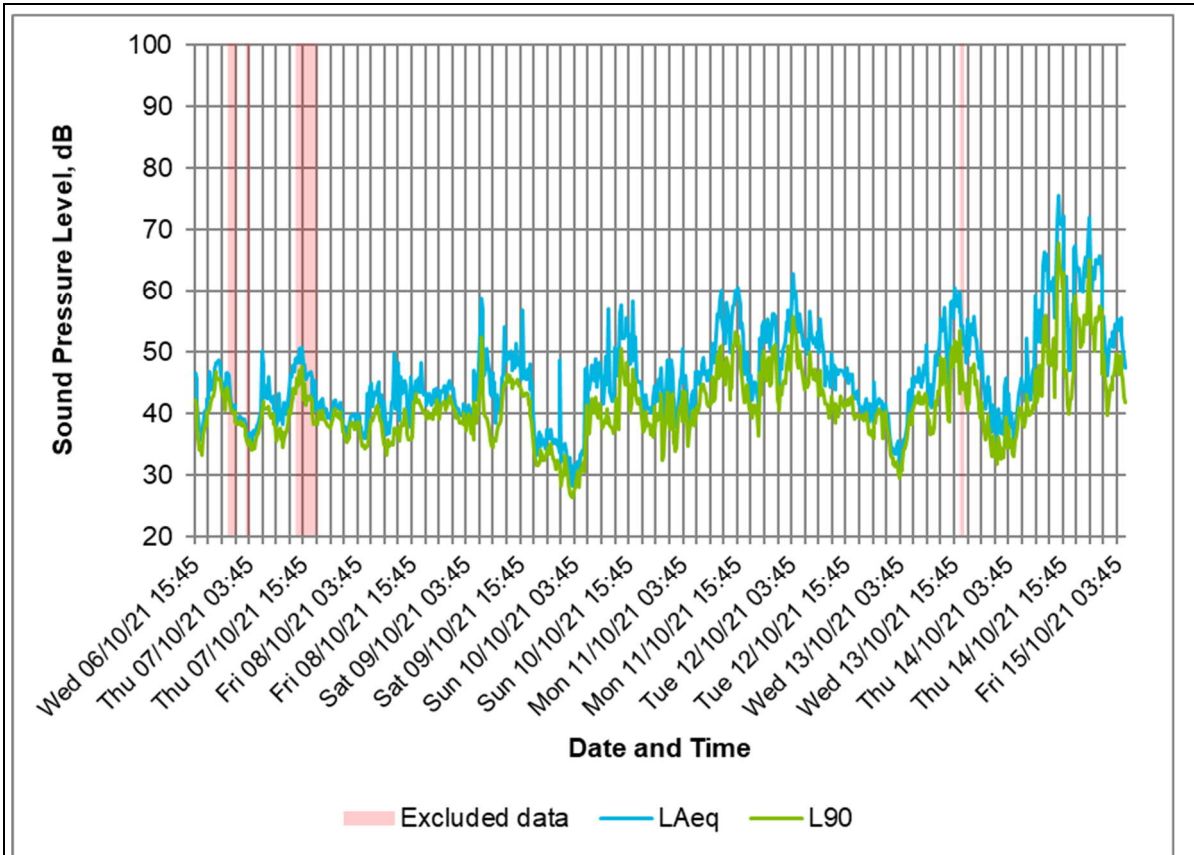


Figure 13B-1: LT1 Noise Monitoring Time History

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Table 13B-1: Sound Pressure Level (dB) at One-Third Octave Band Frequency (Hz)

Time Period	Sound Pressure Level (dB) at One-Third Octave Band Frequency (Hz)																											
	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
Weekday Daytime (07:00 - 19:00)	66	65	64	63	63	62	61	60	59	58	57	55	54	51	49	46	43	41	40	40	40	40	40	39	38	37	36	35
Weekday Evening (19:00 - 23:00)	65	64	63	62	62	61	60	60	59	57	56	54	52	50	47	44	41	39	39	39	38	38	37	37	36	34	34	
Saturday Daytime (07:00 - 13:00)	60	59	59	59	58	57	56	56	53	51	49	45	44	40	37	35	34	33	33	34	32	33	34	32	32	34	27	
Saturday Evening (13:00 - 23:00)	56	56	56	55	54	54	52	50	47	44	41	39	38	38	37	36	35	34	33	32	31	31	31	30	30	28	26	
Sunday Daytime (07:00 - 23:00)	60	60	59	59	58	57	56	54	53	50	48	44	42	38	35	34	35	34	35	36	34	34	35	34	33	32	30	
Night-time (23:00 - 07:00)	60	59	59	58	57	57	56	55	53	52	50	48	46	43	40	37	35	35	35	35	35	35	35	34	33	32	30	

These third octave values are logarithmic averages of those measured between 15:45 06/10/2021 and 05:30 15/10/2021, excluding periods of meteorological data considered unsuitable for monitoring.

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13B.1.2. LT2 – Drax (Wren Hall)

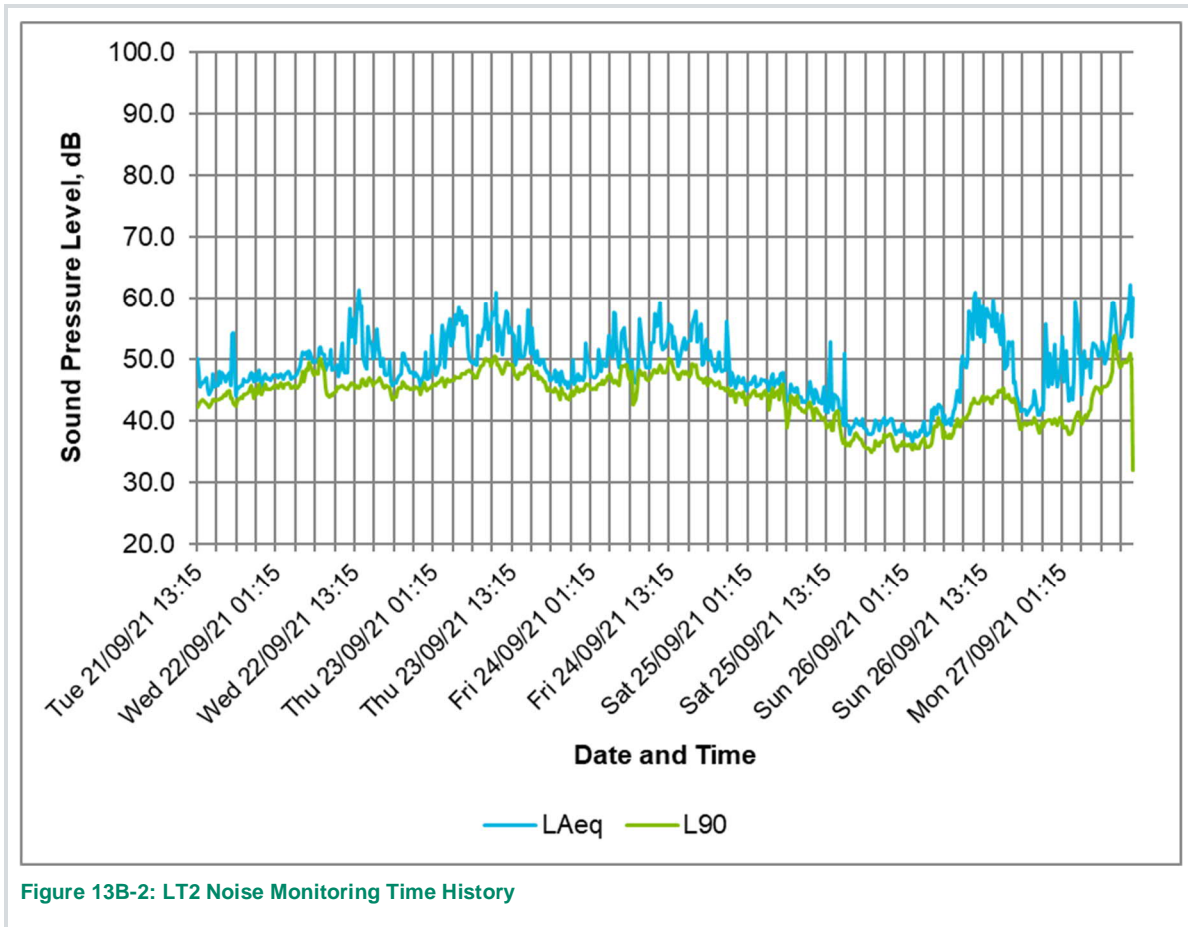


Figure 13B-2: LT2 Noise Monitoring Time History

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Table 13B-2: Sound Pressure Level (dB) at One-Third Octave Band Frequency (Hz)

Time Period	Sound Pressure Level (dB) at One-Third Octave Band Frequency (Hz)																											
	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
Weekday Daytime (07:00 - 19:00)	61	59	57	58	54	52	52	51	51	51	51	51	49	48	46	44	42	39	37	36	34	32	30	29	27	25	23	
Weekday Evening (19:00 - 23:00)	55	53	51	54	48	47	48	46	45	46	45	44	43	43	42	40	37	36	34	32	29	25	21	19	16	14	13	
Saturday Daytime (07:00 - 13:00)	51	49	48	54	45	45	45	42	40	39	39	38	36	37	38	37	36	33	31	29	26	25	25	25	23	20	10	
Saturday Evening (13:00 - 23:00)	49	47	46	52	43	43	44	43	40	39	39	38	36	36	36	35	33	30	28	26	23	21	22	18	19	18	9	
Sunday Daytime (07:00 - 23:00)	62	60	58	58	54	52	52	51	51	52	52	52	51	49	46	43	39	36	34	31	27	23	22	21	21	18	17	
Night-time (23:00 - 07:00)	59	57	55	55	51	49	50	48	48	48	48	47	46	45	43	41	38	36	34	32	30	26	22	21	20	17	15	

These third octave values are logarithmic averages of those measured between 13:15 21/09/2021 and 11:45 27/09/2021.

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13B.2 Equipment Calibration Certificates



CERTIFICATE OF CALIBRATION




0653

Date of Issue: 15 July 2021

Certificate Number: UCRT21/1864

Calibrated at & Certificate issued by:
ANV Measurement Systems
Beaufort Court
17 Roebuck Way
Milton Keynes MK5 8HL
Telephone 01908 642846 Fax 01908 642814
E-Mail: info@noise-and-vibration.co.uk
Web: www.noise-and-vibration.co.uk

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Approved Signatory
 B. Giles

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Customer AECOM Limited
12 Regan Way
Chetwynd Business Park
Chilwell
Nottingham
NG6 6RZ

Order No. 1479439

Test Procedure Procedure TP 1 Calibration of Sound Calibrators

Description Acoustic Calibrator

Identification	Manufacturer	Instrument	Model	Serial No.
	Brüel & Kjær	Calibrator	4231	2217877

The calibrator has been tested as specified in Annex B of IEC 60942:2003. As public evidence was available from a testing organisation (PTB) responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the class 1 requirements of IEC 60942:2003.

ANV Job No. UKAS21/07461



Date Received 14 July 2021

Date Calibrated 15 July 2021

Previous Certificate
Dated 08 July 2020
Certificate No. UCRT20/1604
Laboratory 0653

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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<h2 style="text-align: center;">Certificate of Calibration</h2> <p>Issued by University of Salford (Acoustics Calibration Laboratory) UKAS ACCREDITED CALIBRATION LABORATORY NO. 0801</p>		 UKAS CALIBRATION 0801
Page 1 of 3		
APPROVED SIGNATORIES		
Claire Lomax [x] Andy Moorhouse [] Gary Phillips [] Danny McCaul []		
acoustic calibration laboratory <small>The University of Salford, Salford, Greater Manchester, M5 4WT, UK http://www.acoustics.salford.ac.uk t 0161 295 3030/0161 295 3319 f 0161 295 4456 e c.lomax1@salford.ac.uk</small>		University of Salford MANCHESTER

Certificate Number: 04543/2

Date of Issue: 13 December 2019

PERIODIC TEST OF A SOUND LEVEL METER to IEC 61672-3:2006

FOR:	Aecom Saint Georges House 5, St George's Rd Wimbledon London, SW19 4DR
FOR THE ATTENTION OF:	Thomas Citrine
PERIODIC TEST DATE:	13/12/2019
TEST PROCEDURE:	CTP12 (Laboratory Manual)

Sound Level Meter Details

Manufacturer	01dB	
Model	DUO	
Serial number	12051	
Class	1	
Hardware version	LIS1005G	Application FW: 2.47. Metrology FW: 2.12

Associated Items	Microphone	Integral Preamplifier
Manu	GRAS	-
Model	40CD	-
Serial Number	233681	-

Test Engineer (initial): GP Name: Gary Phillips

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