# Appendix 17.2

**Baseline Noise Survey** 



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## 1 Baseline Noise Survey

## 1.1 Introduction

- 1.1.1 This Appendix reports the measured baseline noise levels along the section of the A9 between Glen Garry and Kincraig prior to the commencement of any physical works in relation to the proposed dualling of the existing trunk road.
- 1.1.2 The survey has been carried out in accordance with applicable British Standards and UK Department of Environment document 'Calculation of Road Traffic Noise' (CRTN) for the assessment of the existing noise levels, together with BS 7445-1: 2003 'Description and measurement of environmental noise Part 1 Guide to quantities and procedures'.
- 1.1.3 This report presents the results of the ambient noise survey.

## 1.2 Baseline Survey Equipment

- 1.2.1 The long term noise surveys, undertaken for periods of 24 hours or more, were undertaken using a 01dB Blue Solo Sound Level Meter (serial number 61046) with a 01dB Pre 21S Pre-amplifier (serial number 16016) and a 01dB MCE212 ½" microphone (serial number 142693). The meter was calibrated using a Castle GA607 Sound Level Calibrator (serial number 035748).
- 1.2.2 The meter and calibrator have been calibrated in an accredited National Measurement Laboratory (NPL) within the past year and the details are shown in **Table 1** below.

Table 1: Sound Level Meter Details and Calibration Details - Long Term Measurements

Equipment	Serial Number	NPL Calibration Certificate Number	UKAS/NPL Calibration Certificate Reference	Last Calibration Date
01dB Blue Solo Sound Level Meter	61046	01655/4	0801	24/01/2014
Castle GA607 Acoustic Calibrator	035748	035748/61288	S6312/07428	09/05/2014

- 1.2.3 The shortened period noise surveys were undertaken using a Castle Pro-DX Vocis GA131M Sound Level Meter (serial number 0062925) with a Castle MKDXP Pre-amplifier (serial number 1026) and a Castle ½" microphone (serial number 5035). The meter was calibrated using a Castle GA607 Sound Level Calibrator (serial number 035748).
- 1.2.4 The meter and calibrator have been calibrated in an NPL accredited laboratory within the past year and the details are shown in **Table 2** below

Table 2: Sound Level Meter Details and Calibration Details - Short Term Measurements

Equipment	Serial Number	NPL Calibration Certificate Number	UKAS/NPL Calibration Certificate Reference	Last Calibration Date
01dB Blue Solo Sound Level Meter	0062925	0062925/61288	S6312	09/09/2014
Castle GA607 Acoustic Calibrator	035748	035748/61288	S6312/07428	09/05/2014



- 1.2.5 It should be noted that the meter was calibrated before and after each measurement to check for 'drift' in the accuracy of the meter. No drift in the calibration level of the meter was found at any time.
- 1.2.6 Noise measurements were taken in accordance with the methodology in British Standard 7445-1: 2003 'Description and measurement of environmental noise Part 1 Guide to quantities and procedures', with the microphone between 1.2 and 1.5m above local ground level. All measurement locations were also at least 3.5m away from any reflecting surface, and as a result it can be considered that all measurement locations were 'free-field'.

## 1.3 Baseline Measurement Locations

- 1.3.1 Prior to the commencement of the baseline noise measurement works, consultation took place with Mr R Murdoch, Environmental Health Officer for Highland Council for the area.
- 1.3.2 The locations proposed to be used were identified beforehand and were, in the main, agreed or relocated slightly to accommodate the discussions. Most of the measurement locations have remained the same, although a couple were relocated to reflect access or security issues. However, it is considered that the baseline, in the vicinity of the A9 within this section of its route, has been appropriately captured.
- 1.3.3 The A9 was considered to be freely flowing during all attended (i.e. 3 hour) surveys. For the unattended surveys this cannot be verified, but on setup and collection it was noted that the A9 was freely flowing.
- 1.3.4 Also, on most days when the unattended measurements were being undertaken the surveyor was in the area performing the attended measurements.
- 1.3.5 It should be noted that during all measurements the Average Speed Cameras (ASC) on the A9 were installed but were not yet operational, as such the measurement results represent typical road traffic noise conditions.

## 1.3.6 The results are presented in **Table 3** below:

Table 3: Baseline Noise Measurement Locationa

Location	Measurement Duration	GPS Location of Measurement
Station House, Dalnaspidal, Pitlochry	3 Hr	NN64450 BNG73353
Balsporran Cottages, Dalwhinnie	24 Hr	NN62711 BNG79196
Drumochter Lodge, Dalwhinnie	3 Hr	NN63065 BNG79591
Loch Ericht Hotel, Dalwhinnie	3 Hr	NN63812 BNG84953
2, Truim View, Dalwhinnie	24 Hr	NN63693 BNG84335
Willet Cottage, Cuaich, Dalwhinnie	24 Hr	NN65573 BNG87071
Crubenmore Lodge, Newtonmore	3 Hr	NN67513 BNG91014
Invernahavon Caravan Park, Glentruim	3 Hr	NN68851 BNG94972
Ptarmigan Lodge, West Ralia	3 Hr	NN70467 BNG97075
Upper Nuide, Newtonmore	3 Hr	NN72837 BNG98471
Ruthven Farm House, Kingussie	3 Hr	NH75924 BNG00628
The Spinney, Spey Street, Kingussie	24 Hr	NH75948 BNG00558
Craig-An-Darach, Kingussie	24 Hr	NH76415 BNG00997
Three Bridges, Kingussie	3 Hr	NH77045 BNG01207



Location	Measurement Duration	GPS Location of Measurement
Kerrow Cottage, Kingussie	3 Hr	NH76635 BNG01227
Croila Road, Kingussie	3 Hr	NH76321 BNG01156
Ard Dalle, Lynchat, Kingussie	24 Hr	NH78148 BNG01832
Mains of Balavil, Kingussie	24 Hr	NH79025 BNG02279
Balavil House, Kingussie	3 Hr	NH79087 BNG02609
Dunachton Lodge, Kingussie	3 Hr	NH82237 BNG04734
Silverwood, Dunachton Road, Kincraig	24 Hr	NH82824 BNG05536
17, Suidhe Crescent, Kincraig	3 Hr	NH83251 BNG06015
The Old Manse, Alvie Estate, Kincraig	24 Hr	NH83485 BNG06506



## 1.3.7 The location of the measurements are indicated in **Figure 1** below:

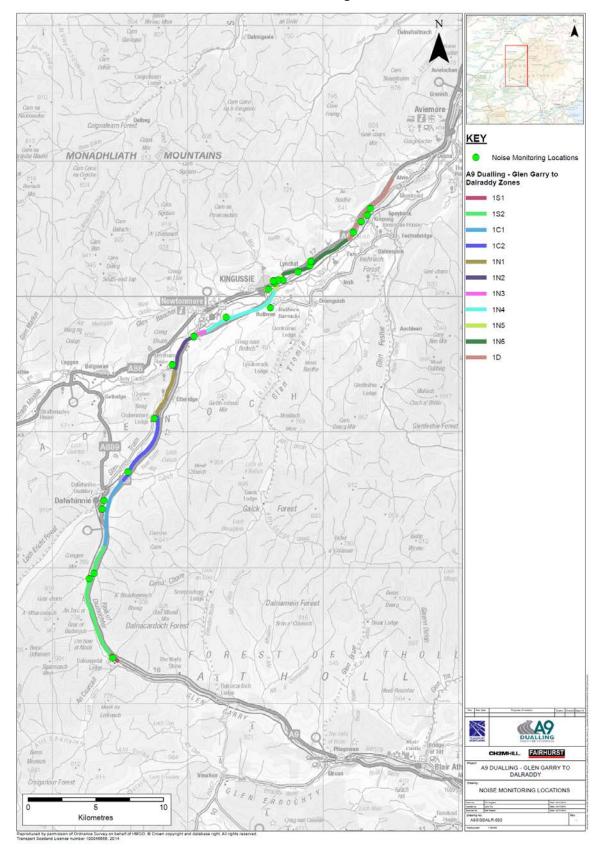


Figure 1: Noise Measurement Locations



## 1.4 Baseline Noise Survey Results

## 1.4.1 A summary of the results of the baseline survey are recorded in **Table 4** below:

Table 4: Summary of Measured Baseline Noise Measurements, dB

Location	Measurement Duration	L <sub>Aeq,T</sub> dB	L <sub>A10,T</sub> dB	
Station House, Dalnaspidal, Pitlochry	3 Hr	57.5	61.3	
Delevere Cetteres Delevisionis	06:00 - 24:00	57.4	59.6	
Balsporran Cottages, Dalwhinnie	00:00 - 06:00	51.0	55.5	
Drumochter Lodge, Dalwhinnie	3 Hr	58.8	63.6	
Loch Ericht Hotel, Dalwhinnie	3 Hr	50.6	52.8	
2. Truing View Delukinnie	06:00 - 24:00	46.0	47.9	
2, Truim View, Dalwhinnie	00:00 - 06:00	38.6	42.3	
Willet Cettege Cucieb Delubianie	06:00 - 24:00	55.5	57.7	
Willet Cottage, Cuaich, Dalwhinnie	00:00 - 06:00	49.2	53.3	
Crubenmore Lodge, Newtonmore	3 Hr	50.3	53.4	
Invernahavon Caravan Park, Glentruim	3 Hr	44.7	47.0	
Ptarmigan Lodge, West Ralia	3 Hr	61.3	60.4	
Upper Nuide, Newtonmore	3 Hr	49.4	54.3	
Ruthven Farm House, Kingussie	3 Hr 50.9		55.3	
The Spinney, Spey Street, Kingussie	06:00 - 24:00	50.3	47.8	
The Spinney, Spey Street, Kingussie	00:00 - 06:00	39.2	42.7	
Croig An Doroch Kinguesia	06:00 - 24:00	52.0	54.6	
Craig-An-Darach, Kingussie	00:00 - 06:00	45.9	50.2	
Three Bridges, Kingussie	3 Hr	53.2	57.3	
Kerrow Cottage, Kingussie	3 Hr	52.8	57.6	
Croila Road, Kingussie	3 Hr	45.9	42.1	
And Dalla Lymphat Kinguasia	06:00 - 24:00	52.0	54.2	
Ard Dalle, Lynchat, Kingussie	00:00 - 06:00	49.7	50.2	
Mains of Balavil, Kingussie	06:00 - 24:00	61.6	65.8	
Mains of Balavii, Kingussie	00:00 - 06:00	56.7	60.0	
Balavil House, Kingussie	3 Hr	54.7	59.0	
Dunachton Lodge, Kingussie	3 Hr	55.1	59.4	
Silverwood, Dunachton Road, Kincraig	06:00 - 24:00	55.5	58.9	
Gilverwood, Dunachton Road, Kinchaig	00:00 - 06:00	49.1	53.1	
17, Suidhe Crescent, Kincraig	3 Hr	54.3	58.7	
The Old Manse, Alvie Estate, Kincraig	06:00 - 24:00	55.3	57.4	
The Old Mariso, Aivie Estate, Mindraly	00:00 - 06:00	52.5	54.6	

- 1.4.2 Full Measurement record sheets are provided at the end of this appendix.
- 1.4.3 Given the above measured noise levels, together with the guidance provided on the correction of shortened measurements contained within CRTN, **Table 5** reports the measured and subsequently corrected L<sub>A10,18hr</sub> noise levels for each of the measurement locations. It should be



noted however that the 3 hour measurements taken are just that; an individual measurement with a statistical average of the 3 measurements. Therefore the procedure described in CRTN was not strictly followed. However, from observations made by the surveyor it is not considered likely that this will have resulted in any significant difference in the reported noise levels, and if required the shortened measurement procedure could be relied upon to provide an approximation to the 18-hour value.

Table 5: Measured and Calculated LA10,18h, dB

Location	L <sub>A10,18h</sub> dB
Station House, Dalnaspidal, Pitlochry	60.3
Balsporran Cottages, Dalwhinnie	59.6
Drumochter Lodge, Dalwhinnie	62.6
Loch Ericht Hotel, Dalwhinnie	51.8
2, Truim View, Dalwhinnie	47.9
Willet Cottage, Cuaich, Dalwhinnie	57.7
Crubenmore Lodge, Newtonmore	52.4
Invernahavon Caravan Park, Glentruim	46.0
Ptarmigan Lodge, West Ralia	59.4
Upper Nuide, Newtonmore	53.3
Ruthven Farm House, Kingussie	54.3
The Spinney, Spey Street, Kingussie	47.8
Craig-An-Darach, Kingussie	54.6
Three Bridges, Kingussie	56.3
Kerrow Cottage, Kingussie	56.6
Croila Road, Kingussie	41.1
Ard Dalle, Lynchat, Kingussie	54.2
Mains of Balavil, Kingussie	65.8
Balavil House, Kingussie	58.0
Dunachton Lodge, Kingussie	58.4
Silverwood, Dunachton Road, Kincraig	58.9
17, Suidhe Crescent, Kincraig	57.7
The Old Manse, Alvie Estate, Kincraig	57.4

## 1.5 Discussion

1.5.1 A detailed baseline noise assessment has been carried out along the route of the proposed dualling of the A9 Trunk Road between Glen Garry and Kincraig. This has revealed a relatively stable noise environment in the vicinity, punctuated by other sources. Examples of this, which are not reflected in the measured results, could be found in Dalwhinnie, adjacent to the Loch Ericht Hotel measurement location. In this vicinity a construction contractor's compound operates, connected to the upgrade of high tension power lines in the area. Noise levels associated with these activities were apparent, but other activities from this site, which involved the use of a helicopter, did not occur in the vicinity whilst the measurements were being taken, although they were observed as taking place during other survey periods.



- 1.5.2 This is a clear indication that noise levels can be cyclical and can vary from hour to hour or day to day. Another example is the overflight by military aircraft, which is a regular but not necessarily daily occurrence in this vicinity.
- 1.5.3 Nonetheless it is considered that the data presented in this report forms a valid report of the ambient noise levels in the vicinity of the proposed A9 works, taken at locations which are considered to be representative of a number of areas along the section of the route between Glen Garry and Kincraig.
- 1.5.4 Given the above it is considered that the data contained within this report forms a suitable basis for the consideration of potential construction noise impacts of the proposed dualling operations, and is also suitable to be used for the verification of modelled noise levels for the dual carriageway once it is constructed and operational.

## 1.6 Noise Measurement Record Sheets

1.6.1 This section presents the measurement record sheets for each measurement location, including photographs of each location.



### Noise Measurement Record

Project	A9 Baseline Noise Assessment Date 16-Sep-2014											
Measurement Location	MP1 - Station House		By	IS								
ource(s) Description Road Traffic on A9 and noise from passage of trains on Highland Main Line												
Equipment												
Sound Level Meter	Cartle Pro-DX Voci	M GA131		Serial No.	0062925		Cal. Date	9-May-2014				
Microphone	Cartle 1/5"			Serial No.	1026		Cal. Date	9-May-2014				
Preamplifier	Cartle MKDXP			Serial No.	5035		Cal. Date	9-May-2014				
Field Calibrator	Cartle GA607			Serial No.	035748		Cal. Date	9-May-2014				
Initial Calibration Level	94.0dB @1000F	94.0dB @1000Hz Correction 0.2dB Date 16-Sep-2014					Time	10:10				
Final Calibration Level	94.0dB @1000F	z Correction	0.2dB	Date	16-Sep-201	4	Time	13:12				
Measurenent Location(s)	ľ						•	•				
Description	To A9 side of reside	tial location at	former station site			Height abo	we ground	1.25 m				
GPS Coordinates	NN64450 BNG7333	3	Bearing to source	North Bast		Distance to source		50.00 m				
Vertical Refl. Surface(s)	None					Distance to	surface	- m				
Sketch/ Photographs												





Westler											
D Measured	0-1m/s	Equipme	ent I	Details:	Silva Windw	atch					
D Estimated		Select:	1	Force	m/s	Descriptio	n	Condition	8		
(Beaufort S	cale)		0	0	< 0.3	Calm		Calm. Smol	ke rises verti	cally.	
			[X]	1	0.3-1.5	Light air		Wind motio	on visible in	smoke.	
			0	2	1.5-3.3	Light breez		Wind felt o	n exposed sk	kin. Leaves rustle.	
			0	3	3.3-5.5	Gentle bree	126	Leaves and smaller twigs in constant motion.			
			O	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.			
			Ü.	5	8.0-10.8	Fresh breez	10	Branches of	f a moderate	size move. Small trees begin to sway.	
Wind Direction	on	Westerly	,		Conditions:		[]Fog		[] Frost	[X] Other: Cloud	
Temperature		10-16°C			1		[] Rain /	Snow	[] Sun		
Measured N	oise Levels										
Location	Date	Time	8: I	Ouration	Lan	LaMan	LaMin	Lan	LAB	Notes	
Dalnaspidal Station	16/09/2014	10:1	0-3	hours	57.5	78.2	36.6	45.8 61.3 See Below			
General Obs	ervations									·	

Road Traffic Noise on the A9, passage of passager trains on the Highland Main Line, overflights by aircraft including low flying military aircraft and activities associated with the nearby estate.



### Noise Measurement Record

Peoject	A9 Basella	A9 Baseline Noise Assessment Date											
Measurement Location	MP2 - Bal	IP2 - Ballspoman Cottages By											
Source(s) Description	Road Ted	ad Traffic on A9 and noise from passage of trains on Highland Main Line											
Equipment													
Sound Level Meter	OldB Blue	: Solo			Serial No.	61046		Cal. Date	24-Jan-2014				
Microphone	OldB MC	E212			Serial No.	142693		Cal. Date	24-Jan-2014				
Preumplifier	OldB Pee	21.5			Serial No.	16016		Cal. Date	24-Jan-2014				
Field Calibrator	Carde GA	607			Serial No.	035748		Cal. Date	9-May-2014				
Initial Calibration Level	94.0dB	@1000Hz	Comection	0.2dB	Dute	16-Sep-201	4	Time	09:50				
Final Calibration Level	94.0dB	@1000Hz	Comection	0.2dB	Dute	18-Sep-201	4	Time	10:00				
Measurement Location(s	)												
Description	B&B/Res	idential Locat	ion Near De	mochter Summit betw	een A9 & Rai	hway	Height abov	ve ground	1.25 m				
GPS Coordinates	NN62711	BNG79196		Bearing to source	East		Distance to	source	130.00 m				
Vertical Refl. Surface(s)	None			•	•		Distance to	surface	. n				
									•				





de)	Equipmen Select:	Force	Sāva Windus m/s			C-Fi		_	
,		Force				Confidence			
,	Select:		m/s	Description	0	Contidend			
,	1			Description		Conditions			
		] 0	< 0.3	Calm		Calm. Smoke rises vertically.			
Based on observation of local weather reports and comments from resident		] 1	0.3-1.5	Light air Light baseze		Wind motion visible in smoke.  Wind felt on exposed skin. Leaves rustle.			
		2	1.5-3.3						
		] 3	3.3-5.5	Geatle beee	20	Leaves and smaller twigs in constant motion.			
		] 4	5.5-8.0	Moderate b	00020	Dust and loose paper raised. Small branches begin to move.			
	1	] 5	8.0-10.8	Fresh beesz		Branches of	a moderate	size move. Small trees begin to sway.	
ı.	Westerly		Conditions		[]Fog		[]Frost	[X] Other: Cloud	
	10-16°C				[] Rain / 5	woai	[] Sun	Drizzle in last hour of measurement	
iec Levele									
ate	Time &	Duration	Lag	Lane	Lane	Lan	Laso	Notes	
16/09/2014 -	Durtine	0000 - 0000	57.4	87.6	27.4	43.1	59.6		
6/09/2014		- 0000						See Below	
Wind Direction Temperature Measured Noise Levele Location Date		10-16°C c Levels te Time &	Westerly 10-16°C te Levels te Time & Duration  Durting 0000 - 0000	5 8.0-10.8	1 5 8.0-10.8 Fresh been	5	5   8.0-10.8   Fresh bessze   Branches of Westedy   Goodition:       Fog	5	

Road Traffic Noise on the A9, passage of passager and freight trains on the Highland Main Line, overflights by aircraft including low flying military aircraft and activities at the property. Lest hour of measurements effected by light min/dritzile which resulted in a damp road surface on the A9.



### Noise Measurement Record

Project	A9 Baseline Nois	е Аззех		Date	16-Sep-2014							
Measurement Location	MP3 - Drumocht	ter Lodg		By	IS							
Source(s) Description	Road Traffic on A	Road Traffic on A9 and noise from passage of trains on Highland Main Line										
Equipment	uipment											
Sound Level Meter	Cartle Pro-DX V	ocis M	GA131		Serial No.	0062925		Cal. Date	9-May-2014			
Microphone	Cartle 16"				Serial No.	1026		Cal. Date	9-May-2014			
Preamplifier	Cartle MKDXP				Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Cartle GA607				Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB @10	00Hz	Correction	0.2dB	Date	16-Sep-2014		Time	13:20			
Final Calibration Level		00Hz	Correction	0.2dB	Date	16-Sep-2014		Time	16:25			
Measurenent Location(s	)											
Description	To A9 side of bu	ilding					Height abo	ve ground	1.25 m			
GPS Coordinates	NN63065 BNG7	79591		Bearing to source	West	West Distance		source	55.00 m			
Vertical Refl. Surface(s)	None						Distance to	surface	- m			





Weather											
D Measured	0-1m/s	Equipmen	t Details:	Silva Windw	atch						
D Estimated		Select:	Force	m/s	Descriptio	n	Conditions				
(Beaufort S	cale)	0	0	< 0.3	Calm		Calm. Smol	e rises verti	cally.		
		px	1	0.3-1.5	Light air		Wind motio	n visible in	smoke.		
		- 0	] 2	1.5-3.3	Light breez		Wind felt of	n exposed si	tin. Leaves rustle.		
	<ol> <li>3 3.3-5.5 Gentle breeze Leaves and smaller twigs in constant motion.</li> </ol>								in constant motion.		
		- 0	] 4	5.5-8.0	Moderate b	reeze	Dust and lo	ose paper n	ised. Small branches begin to move.		
			5	8.0-10.8	Fresh breez	10	Branches of	f a moderate	size move. Small trees begin to sway.		
Wind Direction	on	Westerly		Conditions:		[]Fog		[] Frost	[X] Other: Gloud		
Temperature		13.5-16°C		1		[] Rain /	Snow	[] Sun			
Measured N	oise Levels										
Location	Date	Time &	Duration	Lan	LaMan	LaMin	$L_{A00}$	LAB	Notes		
Drumochter Lodge	16/09/2014	13:20	-3 hours	58.8	81.4	37.8	44.8	63.6	See Below		
General Obs	ervations								·		

Road Traffic Noise on the A9, passage of passenger and freight trains on the Highland Main Line, overflights by aircraft and activities associated with the measurement location, including the barking of dogs and the movement of vehicles within the car parking area.



### Noise Measurement Record

Project	A9 Baseline Noise Ass	esement					Dute	18-Sep-2014
Measurement Location	MP4 - Car Park of For	mer Loch Eri	cht Hotel				By	18
Source(s) Description	Road Traffic on A9 an	d local road a	well as noise from p	ssage of trains	on Highland	Main Line		
Equipment								
Sound Level Meter	Castle Pro-DX Vocis N	£ GA131		Serial No.	0062925		Cal. Date	9-May-2014
Microphone	Carde 36"			Serial No.	1026		Cal. Date	9-May-2014
Preamplifier	Carde MKDXP			Serial No.	5035		Cal. Date	9-May-2014
Field Calibrator	Carde GA607			Serial No.	035748		Cal. Date	9-May-2014
Initial Calibration Level	94.0dB @1000Hz	Correction	0.2dB	Date	18-Sep-201	4	Time	09:55
Final Calibration Level	94.0dB @1000Hz	Correction	0.2dB	Date	18-Sep-201	4	Time	16:20
Measurenent Location(s	0							
Description	To A9 side of building	on southern	ide of Dalwhinnie			Height abo	ve ground	1.25 m
GPS Coordinates	NN63693 BNG84335		Bearing to source	East		Distance to	SOURCE	380.00 m
Vertical Refl. Surface(s)	None					Distance to	surface	- m
Sketch / Photographs	1							





Weather													
D Measured	0-25 m/s	Equipm	entl	Details:	Silva Windw	atch							
D Estimated		Selecti	1	Force	m/s	Descriptio		Conditions					
(Beaufort Sc	cale)	l .		0	< 0.3	Calm		Calm. Smok	e zises vertic	ally.			
		l .	0	1	0.3-1.5	Light air		Wind motio	a visible in s	moke.			
			ρq	2	1.5-3.3	Light breeze		Wind felt or	exposed sk	in Leave	nutte.		
			O	3	3.3-5.5	Gentle bree	26	Leaves and smaller twigs in constant motion.					
[] 4				4	5.5-8.0	Moderate b	0000	Dust and lo	ове рарег га	ised. Smal	l branches begi	n to move.	
[] 5		5	8.0-10.8	Fresh breez	e	Branches of	a moderate	size move	. Small trees be	igin to may.			
Wind Direction	06	Southed	y		Conditions:		[]Fog		[] Frost		[X] Other	Cloud	
Tempenture		13.5-169	°C		]		[] Rain / S	Snow	[]Sun		Occasional I	Light Drizzle	
Measured Noise Levels													
Location	Date	Time	& I	Duration	Lang	Lane	Lamin	$L_{400}$	Lago	Notes			
Loch Ericht Hotel Car Park	18/09/2014	10:0	0 - 3	houn	50.6	73.3	43.4	45.0	52.8		See Bel	low	
Park Consort Obs		L	_										

Road Traffic Noise on the A9 and on the A889 running through Dubrhinnie, including traffic to and from the cafe that is operating in the former hotel. In addition sources include the passage of passenger trains on the Highland Main Line, overflights by aircraft and activities associated with the construction compound associated with the Beauty-Denny power line works which has been in place for several years.



### Noise Measurement Record

Project	A9 Baseline Noise As	essment					Date	18-Sep-2014				
Measurement Location	MP5 - 2 Traim View						By	IS				
Source(s) Description	Road Traffic on A9 as	Traffic on A9 and local soad through Dalwhinnie together with noise from passage of trains on Highland Main Line										
Equipment												
Sound Level Meter	01dB Blue Solo			Serial No.	61046		Cal. Date	24-Jan-2014				
Microphone	01dB MCE212			142693		Cal. Date	24-Jan-2014					
Prescaplifier	01dB Pag 21 S	1dB Par 21 S				16016		24-Jan-2014				
Field Calibrator	Carde GA607			Serial No.	035748		Cal. Date	9-May-2014				
Initial Calibration Level	94.0dB @1000Hz	Correction	0.248	Date	18-Sep-201	4	Time	10:10				
Final Calibration Level	94.0dB @1000Rb	Correction	0.248	Date	19-Sep-201	4	Time	10:15				
Measurenest Location (s	)						•					
Description	Front gurden of unco	uppied holida	y home with dear distan	c view of A9		Height abo	re ground	1.25 m				
GPS Coordinates	NN63812 BNG84953		Bearing to source	East	et Distance t		source	420.00 m				
Vertical Reff. Surface(s)	None					Distance to	sudice					
Sketch/ Photographs												





Weather											
II Measured		Equipme	at Details:	Såva Windw	witch						
Estimated		Selecti	Force	m/s	Descriptio		Condition				
(Beaufort S	cale)	1	] 0	< 0.3	Calm		Calm. Smo	de áses vecti	ody.		
		1	] 1	0.3-1.5	Light air		Wind moti	on visible in	smoke.		
Based on ob	servation of	P	g 2	15-3.3	Light beeco		Wind felt o	on exposed si	kio. Leaves susfie.		
local weat	her reports	Ī	] 3	3.3-5.5	Gende beer	se .	Leaves and	l smaller twig	p in constant motion.		
		1	1 4	5.5-8.0	Moderate b	erese	Dust and loose paper raised. Small branches begin to move.				
[] 5				8.0-10.8	Fresh breez	e	Branches o	f a moderate	size move. Small trees begin to swap.		
Viad Direction Westedy				Conditions		[ ]Fog		[]Feest	[X] Other Cloud		
Temperature		10-16°C				[]Rain /	Snow	[ ]5ua			
Measured N	oise Levels										
Location	Date	Time &	k Duration	Lan	Lexion	Landa	Lun	Lan	Notes		
No 2, Titales View,	18/09/2014 -	Daytime	0600 - 0000	46.0	72.3	23.1	35.0	47.9	See Below		
Dalwhinnie	19/09/2014	Night-tin	e 0000 - 0600	38.6	59.0	23.4	27.1	42.3	See Dearw		

Conditions damp at the time of meter set-up through low doud base, but soad surfaces day. Noise environment affected by soad traffic noise from the A9 in the distance, the local soad through Delwhinois (A889), together with noise from trains on the Highland Main Line and biodeong.

### Noise Measurement Record

Project	A9 Baseline No	ise Asse	ssment					Date	19-Sep-2014
Measurement Location	MP6 - Willet Co	ottage						By	IS
Source(s) Description	Road Traffic on	n A9 and	local activity	ighland Mair	Line				
Equipment									
Sound Level Meter	01dB Blue Solo	)			Serial No.	61046		Cal. Date	24-Jan-2014
Microphone	01dB MCE212				Serial No.	142693		Cal. Date	24-Jan-2014
Preamplifier	01dB Pre 21 S	1dB Pre 21 S				16016		Cal. Date	24-Jan-2014
Field Calibrator	Castle GA607				Serial No.	035748		Cal. Date	9-May-2014
Initial Calibration Level	94.0dB @1	000Hz	Correction	0.2dB	Date	19-Sep-201	4	Time	10:20
Final Calibration Level	94.0dB @1	000Hz	Correction	0.2dB	Date	20-Sep-201	4	Time	10:25
Measurenent Location(s	)								
Description	Front fenceline	of estate	workers cot	tage with clear view of	elevated A9		Height abo	ve ground	1.25 m
GPS Coordinates	NN65573, BNC	N65573, BNG87071 Bearing to sour				East Distance t			98.00 m
Vertical Refl. Surface(s)	None						Distance to	surface	- m
Sketch / Photographs			_						





Weather											
□ Measured	0 - 1 m/s	Equipmen	t Details:	Silva Windw	atch						
□ Estimated		Select:	Force	m/s	Descriptio	n	Conditions	1			
(Beaufort S	cale)	1	0	< 0.3	Calm		Calm. Smok	te rises vertic	cally.		
		ĮΧ	] 1	0.3-1.5	Light air		Wind motio	n visible in	smoke.		
Based on ob	oservation of	1	2	1.5-3.3	Light breez	e	Wind felt on exposed skin. Leaves rustle.				
local weat	her reports	1	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.				
		1	] 4	5.5-8.0	Moderate b	reeze	Dust and lo	ose paper ra	ised. Small branches begin to move.		
			5	8.0-10.8	Fresh breez	ie.	Branches of	a moderate	size move. Small trees begin to sway.		
Wind Direction	on	Westerly		Conditions:		[] Fog		[] Frost	[X] Other: Cloud		
Temperature		10-16°C				[ ] Rain / S	Snow	[]Sun			
Measured N	oise Levels										
Location	Date	Time &	Duration	$L_{\lambda eq}$	LAMex	L <sub>AMin</sub>	L <sub>8,90</sub>	L <sub>A10</sub>	Notes		
Willet Cottage,	19/09/2014 -	Daytime	0600 - 0000	55.5	97.0	22.0	40.1	57.7	See Below		
Guaich, Dalwhinnie	20/09/2014	Night-time	0000 - 0600	49.2	68.8	20.0	25.8	53.3	See Delow		
General Obs	ervations										

Location affected by activities around residential location which are all tied to the local estate, including the keeping of working dogs and the dealing with game shot on estate, but A9 remains the dominant noise source at this location.

### Noise Measurement Record

Project	A9 Baselii	ne Noise Asse	essment					Date	18-Sep-2014
Measurement Location	MP7 - Cn	ubenmore Lo	dge					By	IS
Source(s) Description	Road Trai	ffic он A9 ин	l General Wa	de's Military Road as w	ell as noise fo	om passage o	f trains on l	lighland Mai	n Line
Equipment									
Sound Level Meter	Castle Pro	-DX Vocis N	f GA131		Serial No.	0062925		Cal. Date	9-May-2014
Microphone	Castle 1/2"	1			Serial No.	1026		Cal. Date	9-May-2014
Preamplifier	Castle MB	tle MKDXP				5035		Cal. Date	9-May-2014
Field Calibrator	Castle GA	A607			Serial No.	035748		Cal. Date	9-May-2014
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	18-Sep-201	4	Time	09:55
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	18-Sep-201	4	Time	16:20
Measurement Location(s	)								
Description	To A9 sid	le of building	on opposite :	ide of Truim Valley			Height abo	ve ground	1.25 m
GPS Coordinates	NN67513	BNG91014		Bearing to source	East		Distance to	source	245.00 m
Vertical Refl. Sturface(s)	None			•	•		Distance to	surface	- <u>m</u>
Sketch/Photographs							•		•





Weather													
□ Measured	0 - 1.8 m/s	Equipm	ent l	Details:	Silva Windw	ztch							
D Estimated		Select:		Force	m/s	Descriptio	n	Conditions					
(Beaufort S	cale)		[]	0	< 0.3	Calm		Calm. Smol	ie rises verti	eally.			
			[]	1	0.3-1.5	Light air		Wind motio	n visible in	smoke.			
			Х	2	1.5-3.3	Light breez		Wind felt on exposed skin. Leaves rustle.					
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.					
	[] 4					Moderate b	reeze	Dust and loose paper mised. Small branches begin to move.					
	[] 5				8.0-10.8	Fresh breez	e	Branches of	a moderate	size move.	Small trees b	egin to sway.	
Wind Direction	Vind Direction Westerly				Conditions:		[]Fog		[] Frost		[X] Other:	Cloud	
Temperature		13.5-16°	С				[ ] Rain / S	now	Stm				
Measured N	oise Levels												
Location	Date	Time	& I	Duration	L	L <sub>AMax</sub>	LAMin	L <sub>3,90</sub>	L	Notes			
Crubenmore Lodge	18/00/2014   13:15 - 3 borrer				50.3	68.7	37.0	43.7	53.4		See Be	elow	
General Obs	General Observations												

Road Traffic Noise on the A9 and on General Wade's Military Road which runs past the measurement location. In addition sources include the passage of passenger and freight trains on the Highland Main Line, overflights by helicopters and activities associated occasional traffic movements to and from the measurement location.



### Noise Measurement Record

Project	A9 Baselin	e Noise Asse	ssment				Date	19-Sep-2014					
Measurement Location	MP8 - Inve	emahawon Ca	uawan Park					By	IS .				
Source(s) Description	Local Road	l traffic and a	etivities on s	ite - very little noise fro	un A9 andible								
Equipment													
Sound Level Meter	Castle Pro-	to-DX Vocis M GA131 Sezial No. 0062925 Cal. Date 9-May-2014											
Microphone	Castle 1/2"				Serial No.	1026		Cal. Date	9-May-2014				
Preamplifier	Castle MK	DXP			Serial No.	5035	5035		9-May-2014				
Field Calibrator	Castle GA	507			Serial No.	035748		Cal. Date	9-May-2014				
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	19-Sep-201	4	Time	10:00				
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	19-Sep-201	4	Time	16:20				
Measurement Location(s)													
Description	Adjacent to	Caravan Pa	rk Site Office				Height abo	ve ground	1.25 m				
GPS Coordinates	NN68851	BNG94972		Bearing to source	East	t Distance t		source	310.00 m				
Vertical Refl. Sturface(s)	None				•		Distance to	surface	- <u>m</u>				







Weather	
Measured	0-

□ Mexnued	0-1 m/s	Equipment	Details:	Silva Windw	zatela.						
n Estimated		Select:	Force	m/s	Descriptio	n	Condition	5			
(Beaufort S	cale)	[]	0	< 0.3	Calm		Calm. Smo	ke rises verti	cally.		
		[X]	1	0.3-1.5	Light air		Wind moti	on visible in	smoke.		
		[]	2	1.5-3.3	Light breez		Wind felt o	n exposed sl	in Lewes	rustle.	
		[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.				
		[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.				
[] 5				8.0-10.8	Fresh breez	e	Branches o	f a moderate	size move	Small trees b	egin to sway.
Wind Direction	Vind Direction Westerly			Conditions:		[]Fog		[] Frost		[X] Other:	Cloud
Temperature		14-16°C				[ ] Rain /	Snow	[X] Sun			
Measured N	oise Levels										
Location	Date	Time &	Duration	L	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>3,90</sub>	L,10	Notes		
Invernahavo n Cazavan Park 19/09/2014 10:00 - 3 hours			3 hours	44.7	78.5	39.3	40.5	47.0		See Be	low

Very Little noise from the A9 as the site is somewhat distant, and most of the major sources noted during the survey emanated from site activity such as the movement of cars and canvans on and off site, waste collection and grounds maintenance contractors. Other sources include the passage of trains on the Highland Main Line and overflying aircraft.

### Noise Measurement Record

Project	A9 Baselin	e Noise Asse	essment - Lot	1				Date	23-Sep-2014			
Measurement Location	MP9 - Pta	migan Lodge						By	IS			
Source(s) Description	Road traffi	ie on A9 and	local road, m	ovements on the Highl	and Main Lin	e and overfli	ght of milita	ry aircraft				
Equipment												
Sound Level Meter	Castle Pro-	-DX Vocis M	(GA131		Serial No.	0062925		Cal. Date	9-May-2014			
Microphone	Castle 1/2"			1026		Cal. Date	9-May-2014					
Preamplifier	Castle MK	DXP			Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-2014		Time	09:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-201	4	Time	16:25			
Measurenent Location(s)												
Description	In parking	area of resid	ential lodge at	t Ralia/ Newtonmore ju		Height abo	ve ground	1.25 m				
GPS Coordinates	NN70467	BNG97075		Bearing to source		Distance to	source	20.00 m				
Vertical Refl. Surface(s)	None				Distance to surface		surface	- <u>m</u>				





#### Weather □ Mexsured 0 - 2 m/s Equipment Details: Silva Windwatch Conditions Estimated Description m/s (Beaufort Scale) [] 0 <0.3 Calm Calm. Smoke rises vertically. 0.3-1.5 Light air [] 1 Wind motion visible in smoke. 2 1.5-3.3 Light breeze Wind felt on exposed skin. Leaves rustle. X [] 3.3-5.5 Leaves and smaller twigs in constant motion. 5.5-8.0 Moderate breeze Dust and loose paper raised. Small branches begin to move. [] Branches of a moderate size move. Small trees begin to sway 8.0-10.8 Fresh breeze Wind Direction [X] Other: Cloud Westerly []Fog [] Frost Temperature [] Rain / Snow [] Stua sured Noise Levels $L_{\chi_{Max}}$ L<sub>AMin</sub> Location Date Time & Duration L,410 23/09/2014 10:00 - 3 hours See Below 61.3 99.3 32.4 39.8 60.4 General Observations

Noise from the A9 and the Newtonmore Road (B9150) junction predominates at this location, together with the passage of trains on the Highland Main Line, the overflight of aircraft at the location, collection of waste from the measurement location and some limited residential activity.

### Noise Measurement Record

Project	A9 Baselin	Baseline Noise Assessment Date 22-Sep-2014											
Measurement Location	MP11 - R:	nthven Famil	ionse					By	IS				
Source(s) Description	Road traff	ic on A9 and	local road, ag	picultural activity and or	erflight of m	silitary airerat	t						
Equipment													
Sound Level Meter	Castle Pro	-DX Vocis M	[ GA131		Serial No.	0062925		Cal. Date	9-May-2014				
Microphone	Castle 1/2"				1026		Cal. Date	9-May-2014					
Preamplifier	Castle MK	DXP			Serial No.	5035 Cal. Da		Cal. Date	9-May-2014				
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014				
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	22-Sep-2014 Time		Time	09:55				
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	22-Sep-201	4	Time	13:05				
Measurement Location(s	)												
Description	In gurden	of residential	property rep	resentative of group to S	outh of A9		Height abo	ve ground	1.25 m				
GPS Coordinates	NH75924	BNG00628		Bearing to source		Distance to	source	240.00 m					
Vertical Refl. Surface(s)	None			•		Distance to	surface	- <u>m</u>					
Sketch / Photographs				•			•		•				





Weather													
□ Measured	0 - 1.9 m/s	Equipm	ent D	etails:	Silva Windw	ztch		·					
□ Estimated		Select:	F	orce	m/s	Descriptio	n	Conditions					
(Bezufort S	cale)		[]	0	< 0.3	Calm		Calm. Smol	ie rises verti	eally.			
			[]	1	0.3-1.5	Light air		Wind motio	on visible in	smoke.			
			X	2	1.5-3.3	Light breez	•	Wind felt o	n exposed sk	in Leaves	rustle.		
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and	smaller twig	s in constr	ust motion.		
			[]	4	5.5-8.0	Moderate b	ceeze	Dust and loose paper raised. Small branches begin to move.					
			[]	5	8.0-10.8	Fresh breez	e	Branches of	f a moderate	size move	. Small trees b	egin to sway.	
Wind Directi	011	Westerly	7		Conditions:		[]Fog		[] Frost		[X] Other:	Cloud	
Temperature		7-15°C					[ ] Rain / S	now	[]Stm		Clearing to	Sunshine	
Measured N	loise Levels												
Location	Date	Time	& D	uration	L	L <sub>AMax</sub>	LAMin	L <sub>3,90</sub>	L	Notes			
Ruthven Farmhouse	22/09/2014	10:0	0 - 3	hours	50.9	75.1	36.1	36.1 41.8 55.3 See Below					
General Obs	ervations						<u> </u>						

Noise from the A9 which is at grade or in a slight cutting at this location together with occasional traffic on the local roads (B970 and an unclassified road with no name) and some agricultural activity including the use of bird-scarers or shotgurs. Measurement also affected by overflight of military sizeraft, which is a common occurrence.



### Noise Measurement Record

Project	A9 Baseli	ine Noise Asse	essment					Date	22-Sep-2014	
Measurement Location	MP12 - T	he Spinney						By	IS	
Source(s) Description	Road Tra	ffic on A9 and	d local activity	and noise from passa	ge of trains or	Highland N	fain Line at	the end of th	e garden	
Equipment										
Sound Level Meter	01dB Blu	e Solo			Serial No.	61046		Cal. Date	24-Jan-2014	
Microphone	01dB MC	E212			Cal. Date	24-Jan-2014				
Preamplifier	01dB Pre	21 S			16016		Cal. Date	24-Jan-2014		
Field Calibrator	Castle Ga	A607			Serial No.	035748		Cal. Date	9-May-2014	
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	22-Sep-2014		Time	09:50	
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-201	14	Time	09:25	
Measurement Location(	s)									
Description	Residenti	al garden facir	ng A9 with Hi	ighland Main Line at e	nd of garden		Height abo	ve ground	1.25 m	
GPS Coordinates	NH75948	H75948, BNG00558 Bearing to source South Distance to source 500.00 n								
Vertical Refl. Surface(s)	None	ne Distance to surface - m								
Sketch / Photographs										





Weather											
□ Measured		Equipme	ent Deta	ails:	Silva Windwa	atch					
□ Estimated		Select:	For	ce	m/s	Descriptio	n	Conditions	8		
(Beaufort S	cale)		[]	0	< 0.3	Calm		Calm. Smol	ke rises verti	cally.	
			[]	1	0.3-1.5	Light air		Wind motio	on visible in	smoke.	
Based on ol	bservation of	1	[X]	2	1.5-3.3	Light breez	е	Wind felt o	n exposed sl	in. Leaves rustle.	
local weat	her reports			3	3.3-5.5	Gentle bree	:20	Leaves and	smaller twig	s in constant motion.	
			[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.			
				5	8.0-10.8	Fresh brees	se .	Branches of a moderate size move. Small trees begin to sway			
Wind Direction	on	Westerly			Conditions:		[]Fog		[ ] Frost	[X] Other: Cloud	
Temperature		10-16°C					[ ] Rain / S	Snow	[]Sun	Some light drizzle overnight	
Measured N	oise Levels									_	
Location	Date	Time	& Dur	ation	Lan	L <sub>AMex</sub>	Landin	L,490	L <sub>A10</sub>	Notes	
The Spinney,	22/09/2014 -	Daytim	e 0600 -	- 0000	50.3	82.0 24.9		36.8	47.8	See Below	
Spey Street, Kingussie	23/09/2014	25/09/2014 Night-time 0000 - 0600 39.2 61.4 23.3 28.1 42.7					See Below				
General Obs	servations										

Misty/hazy at the start of the measurement and light overnight rain - main sources appear to be from local traffic in Kingussie together with railway traffic on the Highland Main Line, which adjoins the garden to the South. Some noise from the A9 was however apparent.



Ch2m	1: <b>E</b>	AIRHU	JRST				Noi	se Measu	rement Recor			
Project	A9 Baselin	ne Noise Asse	essment					Date	23-Sep-2014			
Measurement Location	MP13 - Cr	raig-An-Dara	ch					Ву	I Stanworth			
Source(s) Description	Road Traf	d Traffic on A9 and local traffic on A86 Kingussie to Spean Bridge road, together with noise from domestic activity										
Equipment												
Sound Level Meter	01dB Blue	Solo			Serial No.	61046		Cal. Date	24-Jan-2014			
Microphone	01dB MCI	E212			Serial No.	142693		Cal. Date	24-Jan-2014			
Preamplifier	01dB Pre	21 S			Serial No.	16016		Cal. Date	24-Jan-2014			
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-201	14	Time	09:45			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	24-Sep-201	14	Time	09:45			
Measurement Location(	(s)											
Description	Residentia	l garden over	looking A9/	A86 junction			Height abo	we ground	1.25 m			
GPS Coordinates	NH76415	BNG00997		Bearing to source	South East		Distance to	source	180.00 m			
Vertical Refl. Surface(s)	None		·	·			Distance to	surface	- m			
Skatch / Photographs												





Weather										
□ Measured		Equipme	nt Details:	Silva Windw	atch					
□ Estimated		Select:	Force	m/s	Descriptio	n	Conditions			
(Beaufort S	icale)	1	] 0	< 0.3	Calm		Calm. Smol	ke rises verti	cally.	
		1	] 1	0.3-1.5	Light air		Wind motio	on visible in	smoke.	
Based on ol	bservation of	E	X] 2	1.5-3.3	Light breez	e	Wind felt o	n exposed sk	tin. Leaves rustle.	
local weat	her reports	[	] 3	3.3-5.5	Gentle bree	ze	Leaves and	smaller twig	s in constant motion.	
		1	] 4	5.5-8.0	Moderate b	reeze	Dust and lo	ose paper ra	ised. Small branches begin to move.	
		1	[ ] 5 8.0-10.8 Fresh breeze Branches of a moderate size move. Small trees begin to sway.							
Wind Directi	on	Westerly		Conditions:		[]Fog		[] Frost	[X] Other: Cloud	
Temperature		10-16°C				[ ] Rain / S	Snow	[]Sun	Some light drizzle oven	night
Measured N	loise Levels									
Location	Date	Time &	& Duration	LAng	L <sub>aMax</sub>	LAMin	L <sub>A90</sub>	L <sub>8,00</sub>	Notes	
Craig-An-	23/09/2014 -	Daytime	0600 - 0000	52.0	79.3	18.7	40.4	54.6	See Below	
Darach, Kingussie	24/09/2014	Night-tin	ne 0000 - 0600	45.9	64.4	18.7	25.9	50.2	See Below	
General Obs	servations			•	•	•	•	•	•	

Location close to junction of A86 and A9 and road traffic dominates at this location, together with residential activity including chickens within smallholding and some DIY activity in shed building to rear of house and movements of residents car in and out of location. Some overnight rain but location largely dry throughout measurements.

## Noise Measurement Record

Project	A9 Baselin	ne Noise Ass	essment					Date	30-Sep-2014			
Measurement Location	MP14 - T	hree Bridges						By	IS .			
Source(s) Description	Road traff	fie on A9, mo	vements on t	he Highland Main Lin	e and activity a	uound estate						
Equipment												
Sound Level Meter	Castle Pro	-DX Vocis M	f GA131		Serial No.	0062925		Cal. Date	9-May-2014			
Microphone	Castle 1/2"				Serial No.	1026		Cal. Date	9-May-2014			
Prezmplifier	Castle MB	DXP			Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	30-Sep-2014 Tin		Time	09:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	30-Sep-201	4	Time	16:25			
Measurement Location(	s)											
Description	In garden	between resid	dential proper	ty and A9			Height abo	we ground	1.25 m			
GPS Coordinates	NH77045	BNG01207		it	Distance to	source	320.00 m					
Vertical Refl. Surface(s)	None				Distance to	sturface	- m					
Shatah / Whatamanha												





Weather													
□ Measured	0-3 m/s	Equipm	ent l	Details:	Silva Windo	zteh							
<ul> <li>Estimated</li> </ul>		Select:		Force	m/s	Descriptio	n	Conditions					
(Bezufort S	cale)		[]	0	< 0.3	Calm		Calm. Smol	ie rises verti	ically.			
			[]	1	0.3-1.5	Light air		Wind motio	n visible in	smoke.			
			X	2	1.5-3.3	Light breez	e	Wind felt o	a exposed si	kin. Leaves rustle.			
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.					
			[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.					
			П	5	8.0-10.8	Fresh breez	e	Branches o	a moderate	e size move. Small trees begin t	to sway.		
Wind Directi	00.	Westerly	7		Conditions:		[]Fog		[]Frost	[X] Other Clo	nd		
Temperature		12-14°C	,				[] Rain / S	Snow	[X] Sun				
Measured N	loise Levels												
Location	Date	Time	& I	Duration	L <sub>Aeq</sub>	L <sub>AMax</sub>	LAMin	L <sub>350</sub>	L,10	Notes			
Three Badges	30/09/2014	10:0	0 - 2	) hours	53.2	76.3	41.7	.7 47.5 57.3 See Below					
General Obs	ervations						•						

Location elevated close to A9 junction at east end of Kingussie and affected by noise from elevated section that road together with local traffic on the B9152 Kingussie to Kineraig road. Also affected by passage of trains on Highland Main Line and overflight of aircraft in the area, together with residential activity at the beginning and end of the measurement period.

## Noise Measurement Record

Project	A9 Baseline	Noise Asse	ssment					Date	30-Sep-2014			
Measurement Location	MP15 - Ker	now Cottage	:					By	IS			
Source(s) Description	Road traffic	on A9							•			
Equipment	•											
Sound Level Meter	Castle Pro-I	DX Vocis M	GA131		Serial No.	0062925		Cal. Date	9-May-2014			
Microphone	Castle 1/2"				Cal. Date	9-May-2014						
Preamplifier	Castle MKI	OXP			Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Castle GA6	07			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	ate 30-Sep-2014 Tin		Time	09:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	30-Sep-201	4	Time	16:25			
Measurement Location(	(s)			•				•	•			
Description	In open are	a between n	sidential pro	perty and A9			Height abo	we ground	1.25 m			
GPS Coordinates	NH76635 E	NG01227		Distance to	source	55.00 m						
Vertical Refl. Surface(s)	None	None Distance to surface - m										
Sketch / Photographs	T											





Weather													
□ Measured	0-3 m/s	Equipmen	t Details:	Silva Windo	atch								
□ Estimated		Select:	Force	m/s	Descriptio	n	Conditions						
(Beamfort Sc	ale)	]	] 0	< 0.3	Calm		Calm. Smol	ie rises verti	cally.				
		]	] 1	0.3-1.5	Light air		Wind motio	n visible in	smoke.				
		[33	2	1.5-3.3	Light breez	e	Wind felt on exposed skin. Leaves rustle.						
		]	] 3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.						
		]	] 4	5.5-8.0	Moderate b	reeze	Dust and loose paper mised. Small branches begin to move.						
		1	] 5	8.0-10.8	Fresh breez	e	Branches of	a moderate	size move	. Small trees b	egin to sway.		
Wind Directio	n	Westerly		Conditions:		[]Fog		[] Frost		[X] Other	Cloud		
Temperature		12-14°C				[ ] Rain /	Snow	[X] Stun					
Measured No	oise Levels												
Location	Date	Time &	Duration	LAnq	L <sub>AMax</sub>	LAMIN	L,490	L	Notes				
Kerrow Cottage	30/09/2014	13:15	- 3 hours	52.8	69.7	P.7 40.1 44.5 57.6 See Below							
General Observations													

Isolated location on the eastern side of Kingussie. The main source was the A9, with occasional vehicle movements on the access road and in the immediate area, together with backing of working dogs in nearby pen.



## Noise Measurement Record

Project	A9 Baselii	ne Noise Asse	essment					Date	23-Sep-2014
Measurement Location	MP16 - C	roila Road						By	IS
Source(s) Description	Road traff	fie on local ro	ad and A9 in	distance, movements or	the Highlan	d Main Line	and overflig	tht of military	aircraft
Equipment									
Sound Level Meter	Castle Pro	-DX Vocis M	[ GA131		Serial No.	0062925		Cal. Date	9-May-2014
Microphone	Castle 1/2"				Serial No.	1026		Cal. Date	9-May-2014
Prezmplifier	Castle MB	DXP.			Serial No.	5035		Cal. Date	9-May-2014
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-2014		Time	09:55
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-201	4	Time	16:25
Measurement Location(	s)								
Description	In parklan	id area at the	end of Croila	Road overlooking A9			Height abo	ve ground	1.25 m
GPS Coordinates	NH76321	BNG01156		Distance to	source	330.00 m			
Vertical Refl. Surface(s)	None		surface	- m					
							•		•





Weather														
□ Measured	0 - 2 m/s	Equipm	ent I	Details:	Silva Windw	rateh								
□ Estimated		Select:	1	Force	m/s	Descriptio	n	Condition	s					
(Beaufort S	cale)		[]	0	< 0.3	Calm		Calm. Smo	ke rises verti	ically.				
			[]	1	0.3-1.5	Light air		Wind moti	on visible in	smoke.				
			[X]	2	1.5-3.3	Light breez	e	Wind felt on exposed skin. Leaves rustle.						
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.						
			[]	4	5.5-8.0	Moderate breeze Dust and loose paper raised. Small branches begin to						to move.		
	[] 5					Fresh breez	Fresh breeze Branches of a moderate size move. Small trees begin to swa							
Wind Direction	ou.	Westerly	7		Conditions:		[]Fog		[] Frost		[X] Other:	Cloud		
Temperature		12-13°C	;				[ ] Rain /	Snow [] Sun Occasional light drizzle				ght drizzle		
Measured N	oise Levels													
Location	Date	Time	& I	Ouration	L <sub>Aeq</sub>	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>3/90</sub>	L,10	Notes				
Croila Road 23/09/2014 13:20 - 3 hours					45.9	80.9 33.6 35.7 42.1 See Below					ow.			
General Obs	ervations				•	•	-	-	-	•				

Location representative of a large number of properties on the Eastern side of Kingussie, elevated from the A9. Sources noted included local road traffic in the vicinity and distance traffic on the A9, together with the overflight of aircraft together with local residents using the open area used for the measurement to exercise their dogs.

### Noise Measurement Record

Project	A9 Baselin	seline Noise Assessment Date 30-Sep-2014										
Measurement Location	MP17 - Ar	d Dalle						Ву	IS			
Source(s) Description	Road Traff	fie on A9 and	l local traffic	(B9152) through Lyne	hat, together v	ith noise fro	m domestic	activity				
Equipment												
Sound Level Meter	01dB Blue	Solo			Serial No.	61046		Cal. Date	24-Jan-2014			
Microphone	01dB MCE	212			Serial No.	142693		Cal. Date	24-Jan-2014			
Preamplifier	01dB Pre 2	15			Serial No.	16016		Cal. Date	24-Jan-2014			
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	30-Sep-2014		Time	09:45			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	1-Oct-2014	+	Time	09:55			
Measurement Location(s	)			•					•			
Description	Bare devel	opment plot	ve ground	1.25 m								
GPS Coordinates	NH82237,	BNG04734		Bearing to source	North		Distance to	source	90.00 m			
Vertical Refl. Surface(s)	None	Distance to surface - m										

Sketch/ Photographs





Weather												
□ Measured		Equipm	ent]	Details:	Silva Windw	ateh						
Estimated		Select:		Force	m/s	Descriptio	n	Conditions				
(Beaufort Scale	e)		[]	0	< 0.3	Calm		Calm. Smol	ke rises vertic	ally.		
			X	1	0.3-1.5	Light air		Wind motio	n visible in :	moke.		
Based on obser	rvation of		X	2	1.5-3.3	Light breez	e	Wind felt o	n exposed sk	in. Leaves	rustle.	
local weather	reports		[]	3	3.3-5.5	Gentle bree	ze	Leaves and	smaller twig	in consta	nt motion.	
l			[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to mov				in to move.
			[]	5	8.0-10.8	Fresh breez	re	Branches of	f a moderate	size move.	. Small trees b	egin to sway.
Wind Direction	Wind Direction We		Westerly		Conditions:		[]Fog		[]Frost		[X] Other:	Cloud
Temperature		6-16°C					[ ] Rain /	Snow	[]Sun			
Measured Nois	se Levels											
Location Da	ate	Time	& I	Duration	LAcq	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>A90</sub>	L <sub>A10</sub>	Notes		
Tamanhan	)/09/2014 -	Daytin	ie 00	500 - 0000	52.0	76.9	30.2	45.2	54.2		See Bel	·
Kingussie 01	1/10/2014	Night-ti	me (	0000 - 0600	49.7	63.9	27.4	38.0	50.2		See Dea	1047
General Observ	vations											

Location close to A9 at new residential development area on the Western side of Lynchat. Road traffic dominates at this location, together with limited residential activity particularly from children after school periods.

## Noise Measurement Record

Project	A9 Baselin	aseline Noise Assessment Date 1-Oct-2014										
Measurement Location	MP18 - M	lains of Balavi	il					By	IS			
Source(s) Description	Road Traf	fic on A9 tog	ether with no	ise from Highland Main	Line in dist	ance and B9	152					
Equipment												
Sound Level Meter	01dB Blue	Solo			Serial No.	61046		Cal. Date	24-Jan-2014			
Microphone	01dB MCI	E212			Serial No.	142693		Cal. Date	24-Jan-2014			
Preamplifier	01dB Pre 2	21 5			Serial No.	16016		Cal. Date	24-Jan-2014			
Field Calibrator	Castle GA	607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	1-Oct-2014		Time	10:05			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	2-Oet-2014	+	Time	10:35			
Measurement Location(s	;)											
Description	Residentia	l Property in	old estate ste	ading on Balavil Estate	close to A9		Height abo	ve ground	1.25 m			
GPS Coordinates	NH79025	, BNG02279		Bearing to source	South		Distance to	source	50.00 m			
Vertical Refl. Surface(s)	None	ne Distance to surface - m										
	$\overline{}$											







Weather												
□ Measured		Equipm	ent I	Details:	Silva Winds	atch						
n Estimated		Select:	- 1	Porce	m/s	Descriptio	n	Conditions				
(Beaufort S	cale)		[]	0	< 0.3	Calm		Calm. Smol	ke rises verti	tically.		
			X	1	0.3-1.5	Light air		Wind motio	on visible in :	smoke.		
Based on ol	bservation of		[]	2	1.5-3.3	Light breeze		Wind felt o	skin. Leaves rustle.			
local weat	her reports		[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.				
	[] 4				5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.				
	[] 5			5	8.0-10.8	Fresh brees	ze.	Branches of a moderate size move. Small trees begin to sw				
Wind Directi	on	Westerly	Westerly		Conditions:		[]Fog		[] Frost	[X] Other: Cloud		
Temperature		10-14°C					[ ] Rain / S	Snow	[ ] Sun			
Measured N	loise Levels											
Location	Date	Time	& I	Duration	L <sub>Aeq</sub>	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>A90</sub>	L <sub>A10</sub>	Notes		
Mains of Balavil 02/10/2014 -		Daytime 0600 - 0000		0000 - 0000	61.6	83.5	29.8	45.3	65.8	See Below		
Kingussie 03/10/2014		Night-time 0000 - 0600		56.7	73.3	29.4	33.4 60.0		See Delow			
General Obe						•		•	•	•		

Location close to A9 at old but occupied residential location in the estate steading for the Balavil Estate. This location is predominantly affected by road traffic noise on the A9, together with some contribution from the Highland Main Line and the B9152 Kingussie to Kincraig road.

## Noise Measurement Record

Project	A9 Baseli	Baseline Noise Assessment Date 1-Oct-2014										
Measurement Location	MP19 - E	Salavil House					I	В <del>у</del>	IS			
Source(s) Description	Road traf	fie on A9										
Equipment												
Sound Level Meter	Castle Pr	o-DX Vocis M	f GA131		Serial No.	0062925	0	Cal. Date	9-May-2014			
Microphone	Castle 1/2				Serial No.	1026		Cal. Date	9-May-2014			
Preamplifier	Castle M	KDXP			Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Castle Ga	A607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	1-Oct-2014		l'ime	11:00			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	1-Oct-2014	ן י	l'ime	14:15			
Measurement Location	(s)											
Description	In garden	on large estat	e house with	direct line of sight to A	19		Height above	e ground	1.25 m			
GPS Coordinates	NH7908	7 BNG02609		Bearing to source	South		Distance to s	ource	260.00 m			
Vertical Refl. Surface(s)	None	one Distance to surface - m										
Shately / Photographs												





Weather													
□ Measured	0 - 3 m/s	Equipm	ent I	Details:	Silva Windw	atch							
□ Estimated		Select:	1	Porce	m/s	Descriptio	n	Conditions					
(Beaufort S	cale)		[]	0	<0.3	Calm		Calm. Smol	ke rises verti	eall <del>y</del> .			
			[]	1	0.3-1.5	Light air		Wind motio	on visible in	smoke.			
			X	2	1.5-3.3	Light breeze	•	Wind felt o	n exposed sl	in Leaves	rustle.		
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.					
			[]	4	5.5-8.0	Moderate b	breeze Dust and loose paper raised. Small branches begin to mov					in to move.	
			[]	5	8.0-10.8	Fresh breez	e	Branches of a moderate size move. Small trees begin to sway.					
Wind Directi	on	Westerly	7		Conditions:		[]Fog		[] Frost		[X] Other:	Cloud	
Temperature		12-14°C	,				[ ] Rain / S	Snow	[]Sun		Occasional	light rain	
Measured N	loise Levels												
Location	Date	Time	& I	uration	LAcq	L <sub>AMax</sub>	L <sub>AMin</sub>	$\mathbf{L}_{\mathrm{A90}}$	L, A10	Notes			
Balavil House 01/10/2014 11:00 - 3 hours					54.7						low		
General Obs	ervations	•			•	•		•	•	•			

Isolated large estate house elevated above the A9 and with a clear view of the road. Sources included traffic on the A9, wind in the trees (although the measurement location was sheltered by those trees, cars on gravel drive and dogs from the house barking.

## Noise Measurement Record

Project	A9 Baseline	Baseline Noise Assessment Date 29-Sep-2014										
Measurement Location	MP20 - Da	unachton Lo	odge				By		IS			
Source(s) Description	Road traffi	e on A9, mo	vements on t	he Highland Main Lin	and activity a	round estate						
Equipment												
Sound Level Meter	Castle Pro-	DX Vocis M	I GA131		Serial No.	0062925	Cal	Date	9-May-2014			
Microphone	Castle 1/2"				Serial No.	1026 C		Date	9-May-2014			
Preamplifier	Castle MK	DXP			Serial No.	5035	Cal.	Date	9-May-2014			
Field Calibrator	Castle GA6	507			Serial No.	035748	Cal	Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	29-Sep-201	4 Tim	e	09:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	29-Sep-201	4 Tim	e	16:25			
Measurement Location	(s)											
Description	On large gr	urden betwee	n Dunachtor	Lodge house and A9			Height above go	ound	1.25 m			
GPS Coordinates	NH82237 I	H82237 BNG04734 Bearing to source South East Distance to source 110.00 m										
Vertical Refl. Surface(s)	None	None Distance to surface - m										
Sketch / Photographs												





Weather													
□ Measured	0-3m/s	Equipme	ent I	Details:	Silva Windw	atch							
□ Estimated		Select:	1	Porce	m/s	Descriptio	n	Condition	3				
(Beaufort S	cale)		[]	0	< 0.3	Calm		Calm. Smoke rises vertically.					
			[]	1	0.3-1.5	Light air		Wind motio	on visible in	smoke.			
			X	2	1.5-3.3	Light breez	e	Wind felt o	n exposed sl	kin. Leaves rustle.			
			[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.					
			[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.					
			[]	5	8.0-10.8	Fresh breez	e	Branches of a moderate size move. Small trees begin to swa					
Wind Directi	on	Westerly			Conditions:		[]Fog		[] Frost	[ ] Other:			
Temperature		15-18°C			]		[ ] Rain / S	Snow	[X] Sun				
Measured N	oise Levels				•								
Location	Date	Time	& D	uration	L	L <sub>AMax</sub>	L <sub>AMin</sub>	$L_{\Lambda90}$	$L_{A10}$	Notes			
Dunachton Lodge 29/09/2014 13:15 - 3 hours				hours	55.1	67.2	37.1	45.5	59.4	See Below			
General Obs	ervations				•	•				•			

Isolated location elevated from the A9 and with a clear line of sight to the road. The major noise source is the A9 throughout the measurement, with some activities around the measurement location including residents taking phone calls and the movement of vehicles on the gravel drive. In addition noise could be heard from the Highland Main Line and overflying aircraft.

## Noise Measurement Record

Project	A9 Baselin	Baseline Noise Assessment Date 29-Sep-2014										
Measurement Location	MP21 - Si	lverwood						By	IS			
Source(s) Description	Road Traf	ffic on local r	oad (B9152) a	und A9 which is more d	istant							
Equipment												
Sound Level Meter	01dB Blue	e Solo			Serial No.	61046		Cal. Date	24-Jan-2014			
Microphone	01dB MC	E212			Serial No.	142693		Cal. Date	24-Jan-2014			
Preamplifier	01dB Pre	21 5			Serial No.	16016		Cal. Date	24-Jan-2014			
Field Calibrator	Castle GA	4607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	29-Sep-201	4	Time	08:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	30-Sep-201	4	Time	09:35			
Measurement Location(s	)											
Description	Residentia	ıl garden over	looking B915	2 and A9 which is som	ewhat more d	listant	Height abo	ve ground	1.25 m			
GPS Coordinates	NH82824	, BNG05536		Bearing to source	North Wes	t	Distance to	source	155.00 m			
Vertical Refl. Surface(s)	None	one Distance to surface - m										
Florid / Bhotomak							•		•			





ditions
a. Smoke rises vertically.
d motion visible in smoke.
d felt on exposed skin. Leaves rustle.
es and smaller twigs in constant motion.
and loose paper raised. Small branches begin to move.
ches of a moderate size move. Small trees begin to sway.
[ ] Frost [X] Other: Cloud
[ ] Smm
L <sub>A30</sub> Notes
2.8 58.9
See Below
5.3 53.1

Location close to B9152 and road traffic dominates at this location, together with noise from a slightly more distant A9 which is slightly sheltered from the residential location by the intervening topography.



Kineraig

## Noise Measurement Record

Project	A9 Baselii	Baseline Noise Assessment Date 23-Sep-2014										
Measurement Location	MP22 - A	djacent to 17	Suidhe Creso	ent				By	IS			
Source(s) Description	Road traff	fie on local ro	ad and A9 in	distance, movements or	the Highlan	nd Main Line	and ground	s maintenano	e work			
Equipment												
Sound Level Meter	Castle Pro	-DX Vocis M	GA131		Serial No.	0062925		Cal. Date	9-May-2014			
Microphone	Castle 1/2"				Serial No.	1026		Cal. Date	9-May-2014			
Preamplifier	Castle MB	DXP.			Serial No.	5035		Cal. Date	9-May-2014			
Field Calibrator	Castle GA	1607			Serial No.	035748		Cal. Date	9-May-2014			
Initial Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-2014		Time	09:55			
Final Calibration Level	94.0dB	@1000Hz	Correction	0.2dB	Date	23-Sep-2014		Time	16:25			
Measurement Location(	(s)		•									
Description	In parklar	id area adjacei	at to property	on Suidhe Crescent, K	ineraig		Height abo	ve ground	1.25 m			
GPS Coordinates	NH83251	BNG06015		Bearing to source	North Wes	it	Distance to	source	235.00 m			
Vertical Refl. Surface(s)	None	ne Distance to surface - m										
	_						•		•			





Weather												
□ Measured	0 - 2 m/s	Equipm	ent I	Details:	Silva Windwatch							
□ Estimated		Select: Force		m/s	Description		Conditions					
(Beaufort Scale)		[] 0		< 0.3	Calm		Calm. Smoke rises vertically.					
			[]	1	0.3-1.5	Light air		Wind motion visible in smoke.				
			X	2	1.5-3.3	Light breeze		Wind felt on exposed skin. Leaves rustle.				
		[]	3	3.3-5.5	Gentle bree	ze	Leaves and smaller twigs in constant motion.					
1		[]	4	5.5-8.0	Moderate b	reeze	Dust and loose paper raised. Small branches begin to move.					
			[]	5	8.0-10.8	Fresh breeze		Branches of a moderate size move. Small trees begin to sway.				
Wind Direction		Westerly		Conditions:	[]Fog		[] Frost		[ ] Other:			
Temperature		8-15°C			[ ] Rain /		Snow [X] Sun					
Measured Noise Levels												
Location	ation Date Time & Duration		L	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>A90</sub>	L <sub>3.10</sub>	Notes				
Suidhe Crescent	29/09/2014	10:0	0 - 3	hours	54.3	75.0	38.8	46.4	58.7	See Below		
0101												

Location representative of a large number of properties in the centre of Kincraig somewhat set down from the A9 and partially protected from it by intervening topography. Sources noted included local road traffic in the vicinity and distance traffic on the A9, together with the overflight of aircraft, passage of trains on the Highland Main Line and some grounds maintenance works on residential locations in the vicinity.

## Noise Measurement Record

A9 Baseline	19 Baseline Noise Assessment Date 2									
MP23 - Th	Ву	IS								
Road Traff	oad Traffic on A9 and local traffic (B9152), together with noise from domestic activity									
01dB Blue	Solo			Serial No.	61046		Cal. Date	24-Jan-2014		
01dB MCE	212			Serial No.	142693		Cal. Date	24-Jan-2014		
01dB Pre 2	15			Serial No.	16016		Cal. Date	24-Jan-2014		
Castle GA607				Serial No.	035748		Cal. Date	9-May-2014		
94.0dB	@1000Hz	Correction	0.2dB	Date	24-Sep-201	4	Time	09:55		
94.0dB	@1000Hz	Correction	0.2dB	Date	26-Sep-2014		Time	10:30		
Measurement Location(s)										
Residential garden overlooking A9 and sheltered from local road (B9152) H							ve ground	1.25 m		
NH82237,	BNG04734		Bearing to source	South East		Distance to source		90.00 m		
None	None Distance to surface -									
	MP23 - Th Road Traff 01dB Bine 01dB MCE 01dB Pre 2 Cartle GA/ 94.0dB 94.0dB Residential NH82237,	MP23 - The Old Mante Road Traffic on A9 and 01dB Bine Solo 01dB MCE212 01dB Pre 21 S Castle GA607 94.0dB @1000Hz 94.0dB @1000Hz Residential garden over NH82237, BNG04734	01dB Bine Solo 01dB MCE212 01dB Pre 21 S Castle GA607 94.0dB @1000Hz Correction 94.0dB @1000Hz Correction Residential garden overlooking A9 as	MP23 - The Old Manse  Road Traffic on A9 and local traffic (B9152), together with  01dB Bine Solo  01dB MCE212  01dB Pre 21 S  Castle GA607  94.0dB @1000Hz Correction 0.2dB  94.0dB @1000Hz Correction 0.2dB  Residential garden overlooking A9 and sheltered from local NH82237, BNG04734 Bearing to source	MP23 - The Old Manse  Road Traffic on A9 and local traffic (B9152), together with noise from do  01dB Bine Solo  01dB Bine Solo  01dB MCE212  Senial No.  01dB Pre 21 S  Senial No.  Castle GA607  Senial No.  Castle GA607  Senial No.  24dB  Date  94.0dB  @1000Hz  Correction  0.2dB  Date  Residential garden overlooking A9 and sheltered from local road (B9152)  NH82237, BNG04734  Bearing to source  South East	MP23 - The Old Manuse           Road Traffic on A9 and local traffic (B9152), together with noise from domestic active           01dB Bine Solo         Senial No.         61046           01dB MCE212         Senial No.         142693           01dB Pre 21 S         Senial No.         16016           Castle GA607         Senial No.         035748           94.0dB         @1000Hz         Correction         0.2dB         Date         24-Sep-201           94.0dB         @1000Hz         Correction         0.2dB         Date         26-Sep-201           Residential garden overlooking A9 and sheltered from local road (B9152)           NH82237, BNG04734         Bearing to source         South East	MP23 - The Old Manse           Road Traffic on A9 and local traffic (B9152), together with noise from domestic activity           01dB Bine Solo         Serial No.         61046           01dB MCE212         Serial No.         142693           01dB Pre 21 S         Serial No.         16016           Castle GA607         Serial No.         035748           94.0dB         @1000Hz         Correction         0.2dB         Date         24-Sep-2014           94.0dB         @1000Hz         Correction         0.2dB         Date         26-Sep-2014           Retidential garden overlooking A9 and sheltered from local road (B9152)         Height abor           NH82237, BNG04734         Bearing to source         South East         Distance to	MP23 - The Old Manse By  Road Traffic on A9 and local traffic (B9152), together with noise from domestic activity  OldB Bine Solo Serial No. 61046 Cal. Date  OldB MCE212 Serial No. 142693 Cal. Date  OldB Pre 21 S Serial No. 16016 Cal. Date  Castle GA607 Serial No. 035748 Cal. Date  OldB Q1000Hz Correction 0.2dB Date 24-Sep-2014 Time  94.0dB @1000Hz Correction 0.2dB Date 26-Sep-2014 Time  Residential garden overlooking A9 and sheltered from local road (B9152) Height above ground  NH82237, BNG04734 Bearing to source South East Distance to source		





eather	·
Measured Equipment Details: Silva Windwatch	

□ Measured		Equipment Details:			Silva Windwatch						
□ Estimated		Select: Force		orce	m/s	m/s Description		Conditions			
(Beaufort Scale)		[] 0		< 0.3	Calm		Calm. Smoke rises vertically.				
		[X] 1		0.3-1.5	Light air		Wind motion visible in smoke.				
Based on observation of		[X] 2		1.5-3.3	Light breeze		Wind felt on exposed skin. Leaves rustle.				
local weather reports		[32] 3		3.3-5.5 Gentle bree		ze	Leaves and smaller twigs in constant motion.				
			[]	4	5.5-8.0	Moderate breeze		Dust and loose paper raised. Small branches begin to move.			
			[]	5	8.0-10.8	Fresh breez	e	Branches of a moderate size move. Small trees begin to sway.			
Wind Direction		Westerly		Conditions:	[]Fog			[]Frost	[X] Other: Cloud		
Temperature		10-16°C			[ ] Rain /		Snow []Sun				
Measured N	loise Levels										
Location	Date	Time	& Du	ıration	L <sub>Aeq</sub>	L <sub>AMax</sub>	L <sub>AMin</sub>	L <sub>A90</sub>	L <sub>A10</sub>	Notes	
The Old Manse, Kineraig	24/09/2014 - 26/09/2014			55.3	85.4	26.2	47.2	57.4	See Below		
				52.5	69.5	27.7	40.3	54.6	See Desow		
General Obs	ervations	•					•		•		

ocation close to A9 and road traffic dominates at this location, together with limited residential activity as part of the location is an unoccupied holiday hom
A9 is in a slight cutting at this location, and there are some impacts from a nearby Primary School at various times of the day.

