

# M60/M62/M66 Simister Island Interchange

TR010064

## ENVIRONMENTAL STATEMENT FIGURES CHAPTER 11 NOISE AND VIBRATION

APFP 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009

**VOLUME 6.2**

March 2024

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009**

**M60/M62/M66 Simister Island Interchange**  
Development Consent Order 202[ ]

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**ENVIRONMENTAL STATEMENT FIGURES  
CHAPTER 11 NOISE AND VIBRATION**

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<b>Regulation Reference</b>	5(2)(a)
<b>Planning Inspectorate Scheme Reference</b>	TR010064
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<b>Author</b>	M60/M62/M66 Simister Island Interchange Costain Jacobs Partnership Project Team & National Highways

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P01	March 2024	FOR DCO APPLICATION

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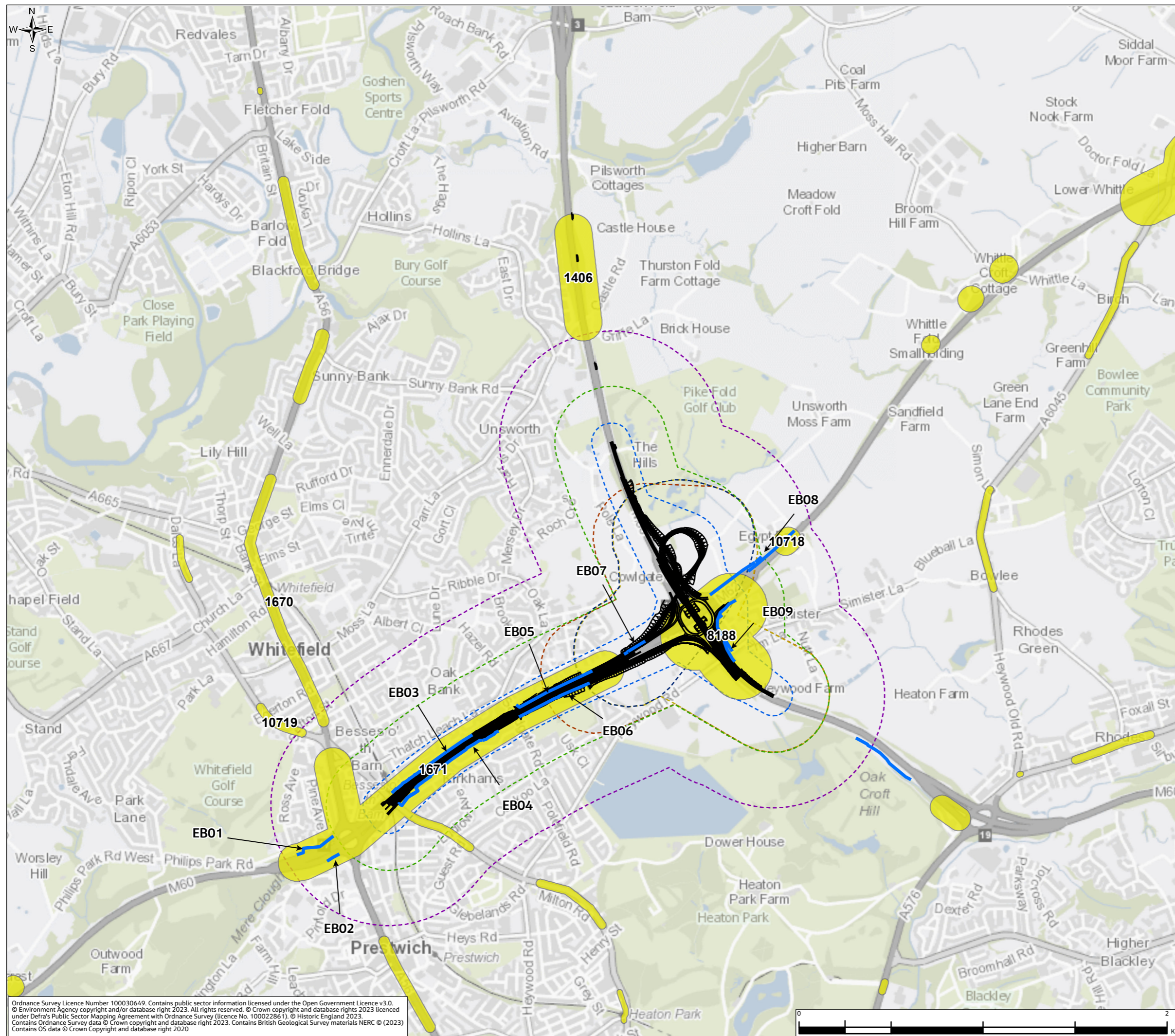
## Environmental Statement Figures Chapter 11 Noise and Vibration

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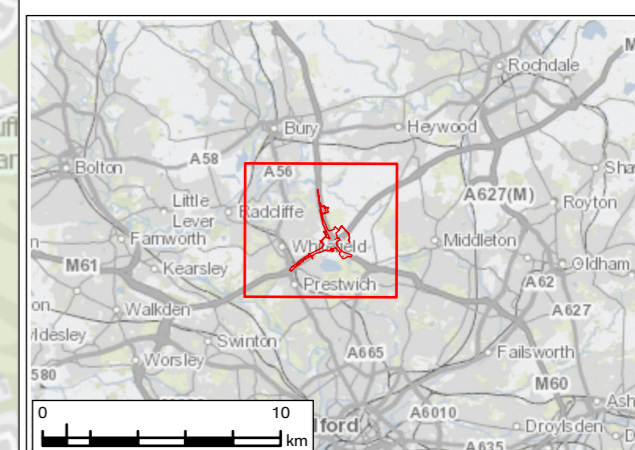
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**FIGURE 11.1a**



- Legend**
- Scheme highway design
  - Existing Noise Barriers
  - Noise Important Area (NIA)
  - Operational Noise Study Area (600m)
  - Construction Vibration Study Area (100m)
  - Construction Noise Study Area for Structures works
  - Construction Noise Study Area for Online works
  - Construction Noise Study Area for Offline works
  - Construction Noise Study Area for Mobilisation and Demobilisation



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 M60/M62/M66 SIMISTER ISLAND INTERCHANGE

**Drawing Title**  
 ENVIRONMENTAL STATEMENT  
 NOISE STUDY AREAS, NOISE IMPORTANT AREAS, AND  
 EXISTING NOISE BARRIERS

**Drawing Status**  
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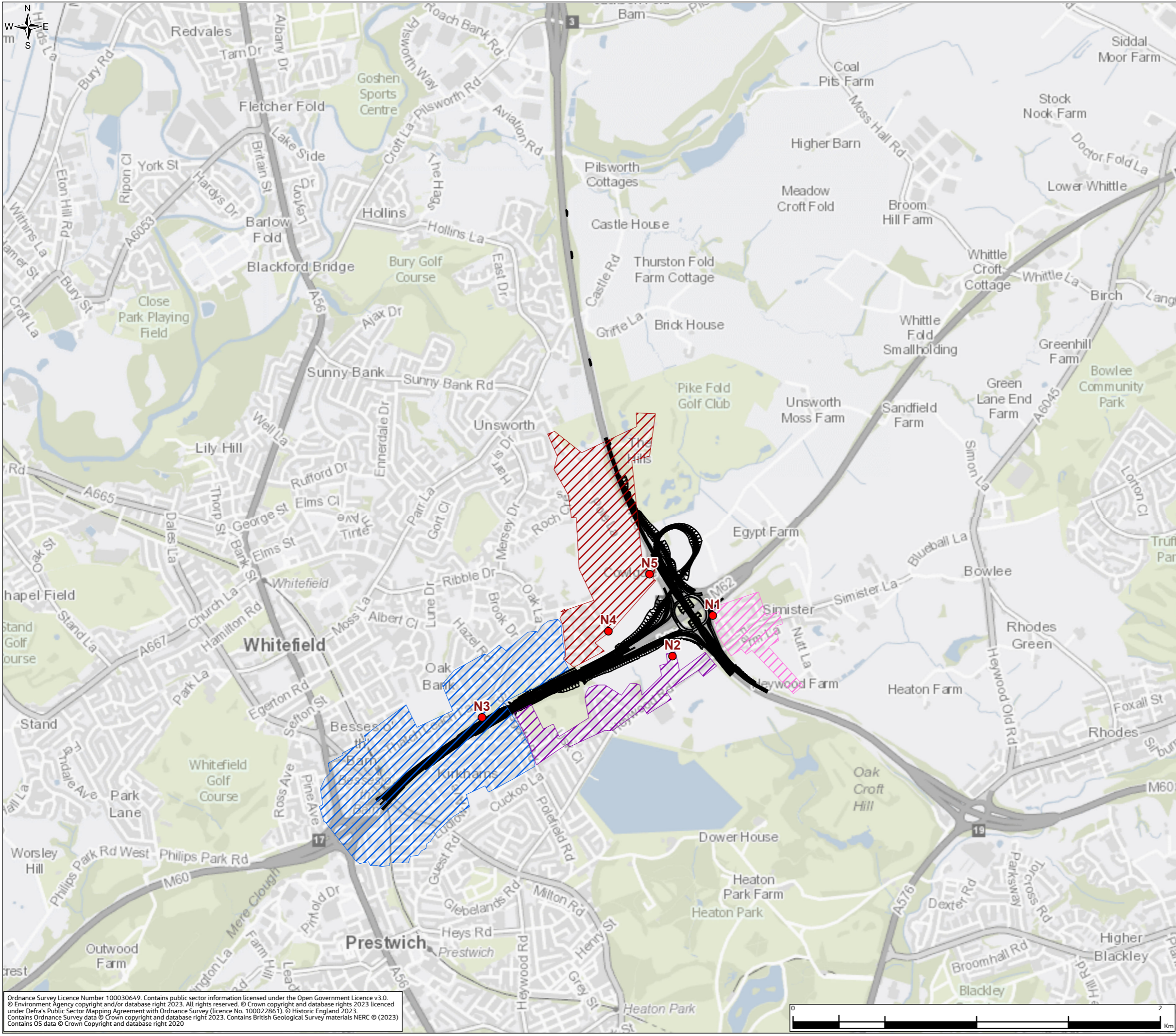
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**FIGURE 11.1b**

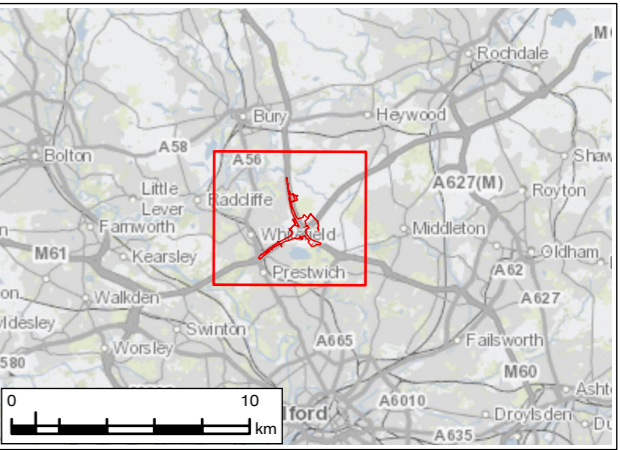


**Legend**

- Scheme highway design
- Baseline Noise Monitoring Locations

**Area of application of construction noise effect levels based on measurement locations**

- N1
- N2
- N3
- N4



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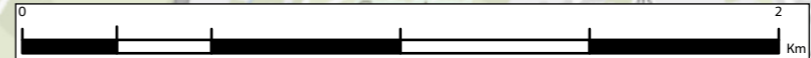
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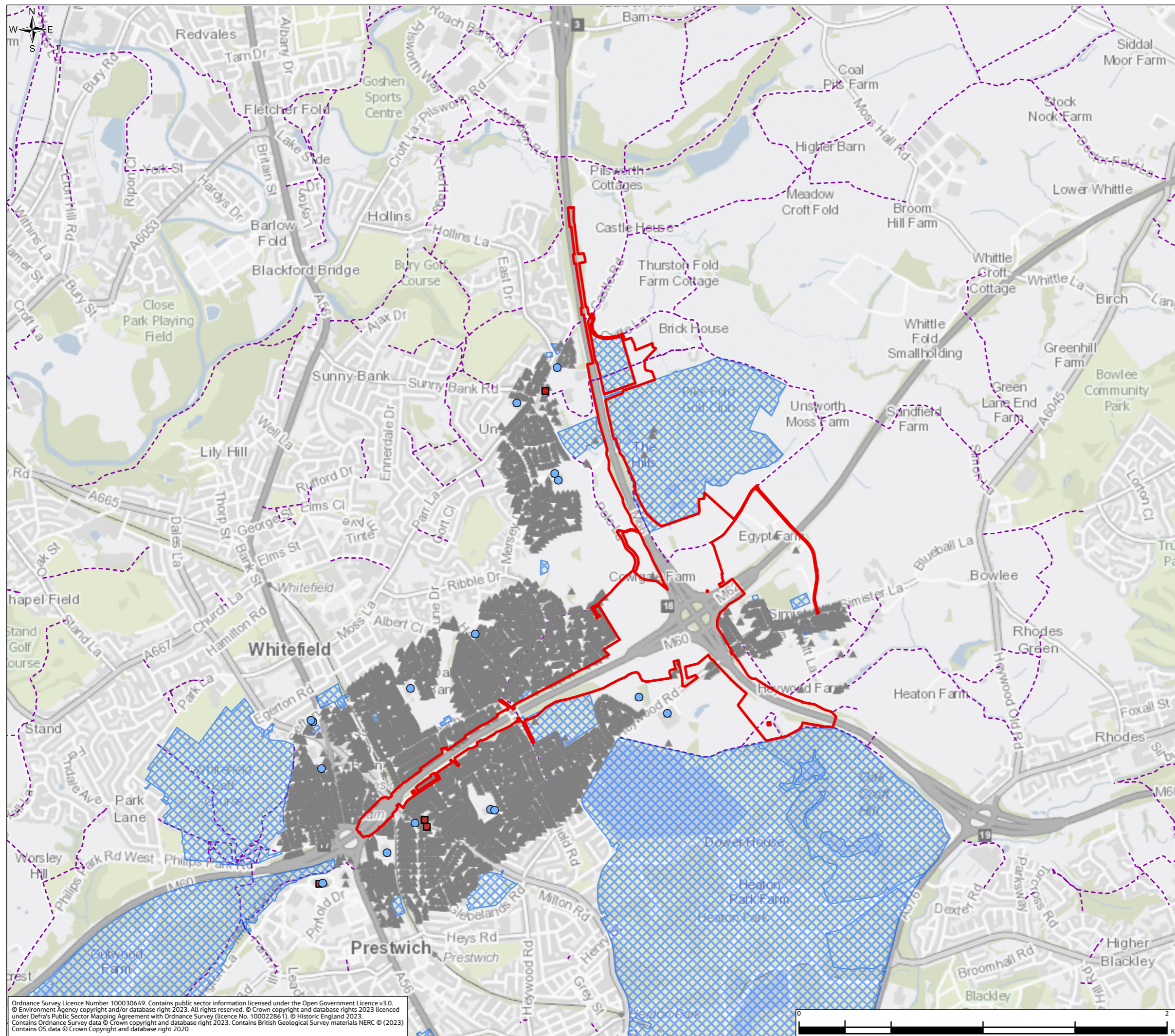
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**FIGURE 11.2**

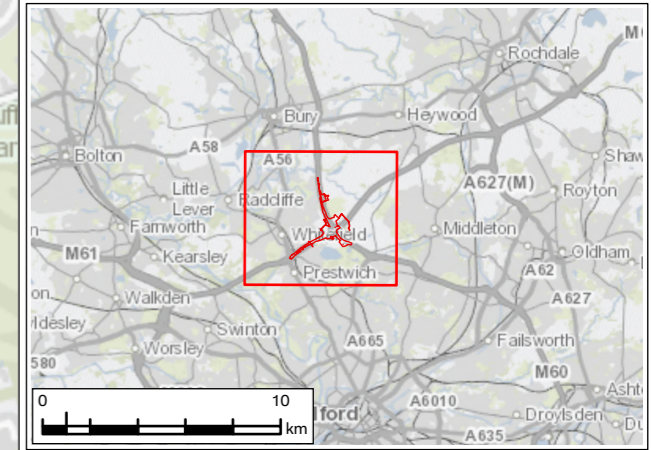


**Legend**

- Order Limits
- Public Rights of Way (PRoW)

**Noise sensitive receptors within the 600m operational noise study area**

- Education
- Healthcare
- ▲ Residential Premises
- ▲ Other Sensitive Receptors
- Outdoor Noise Sensitive Areas



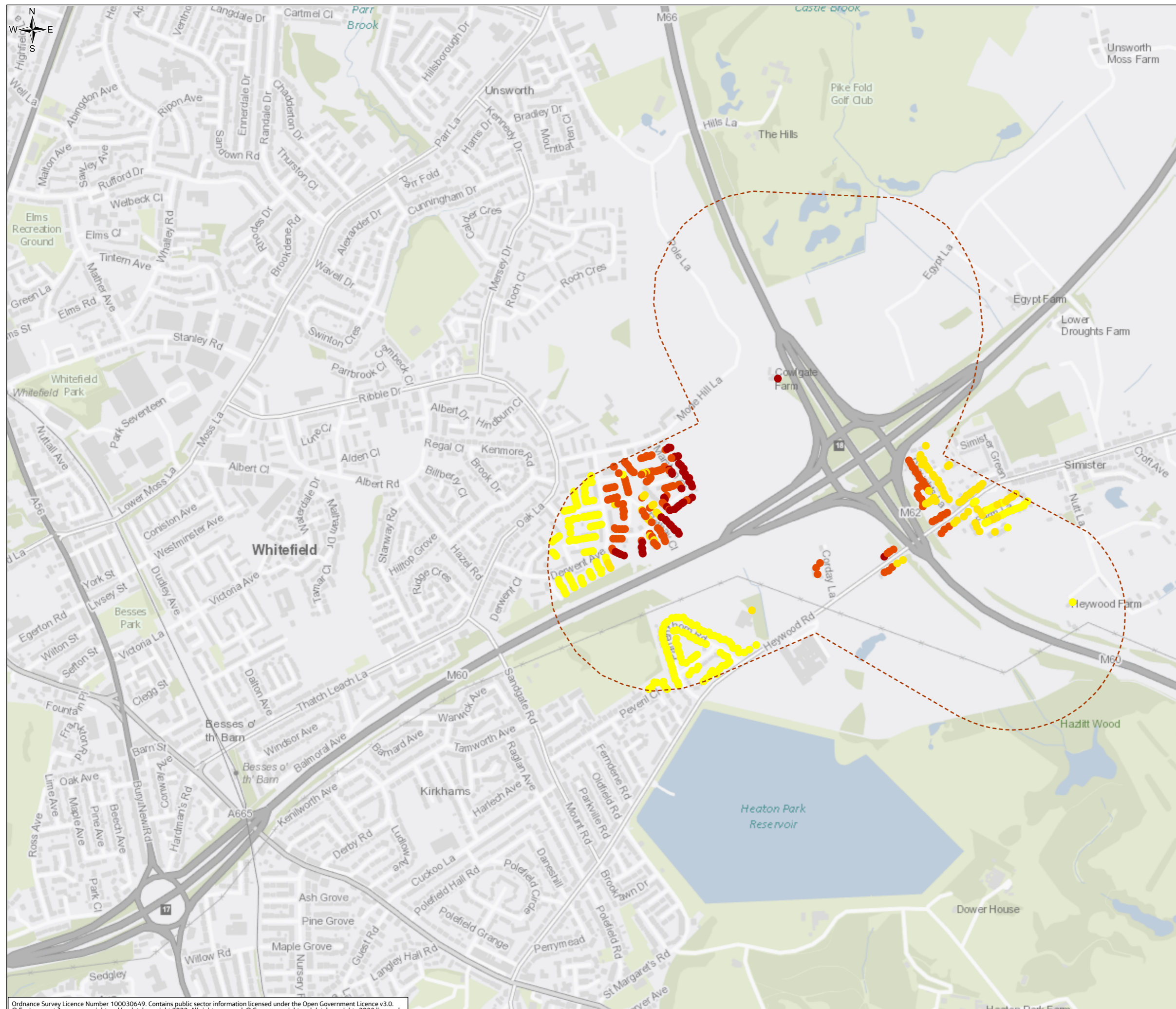
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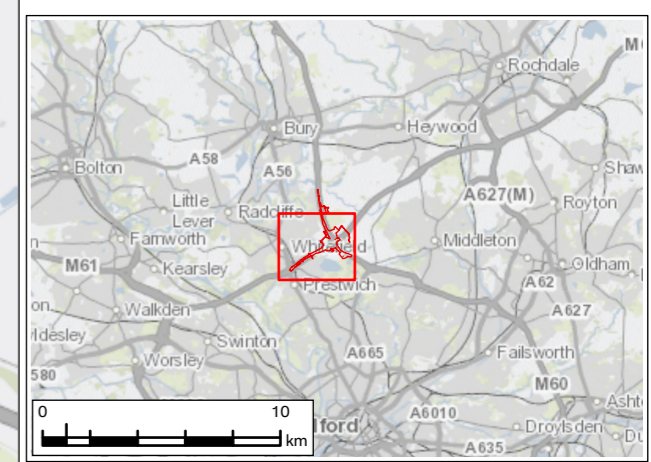


**FIGURE 11.3a**



**Legend**

- Construction Noise Study Area for Mobilisation and Demobilisation
- Magnitude of daytime construction noise during Mobilisation and Demobilisation**
- Major
- Moderate
- Minor
- Negligible



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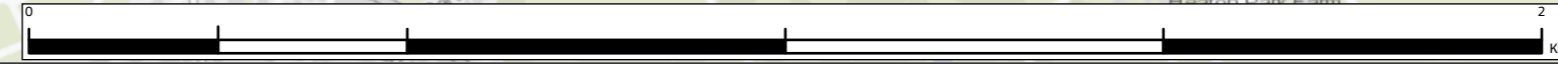


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ENVIRONMENTAL STATEMENT  
CONSTRUCTION NOISE – MAGNITUDE OF IMPACT DURING  
MOBILISATION AND DEMOBILISATION (DAYTIME)

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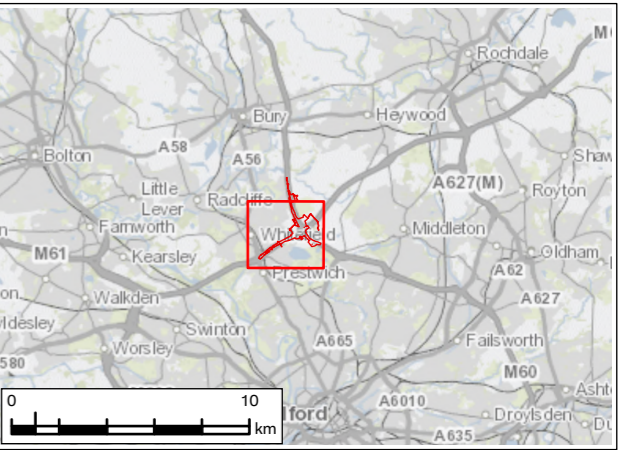
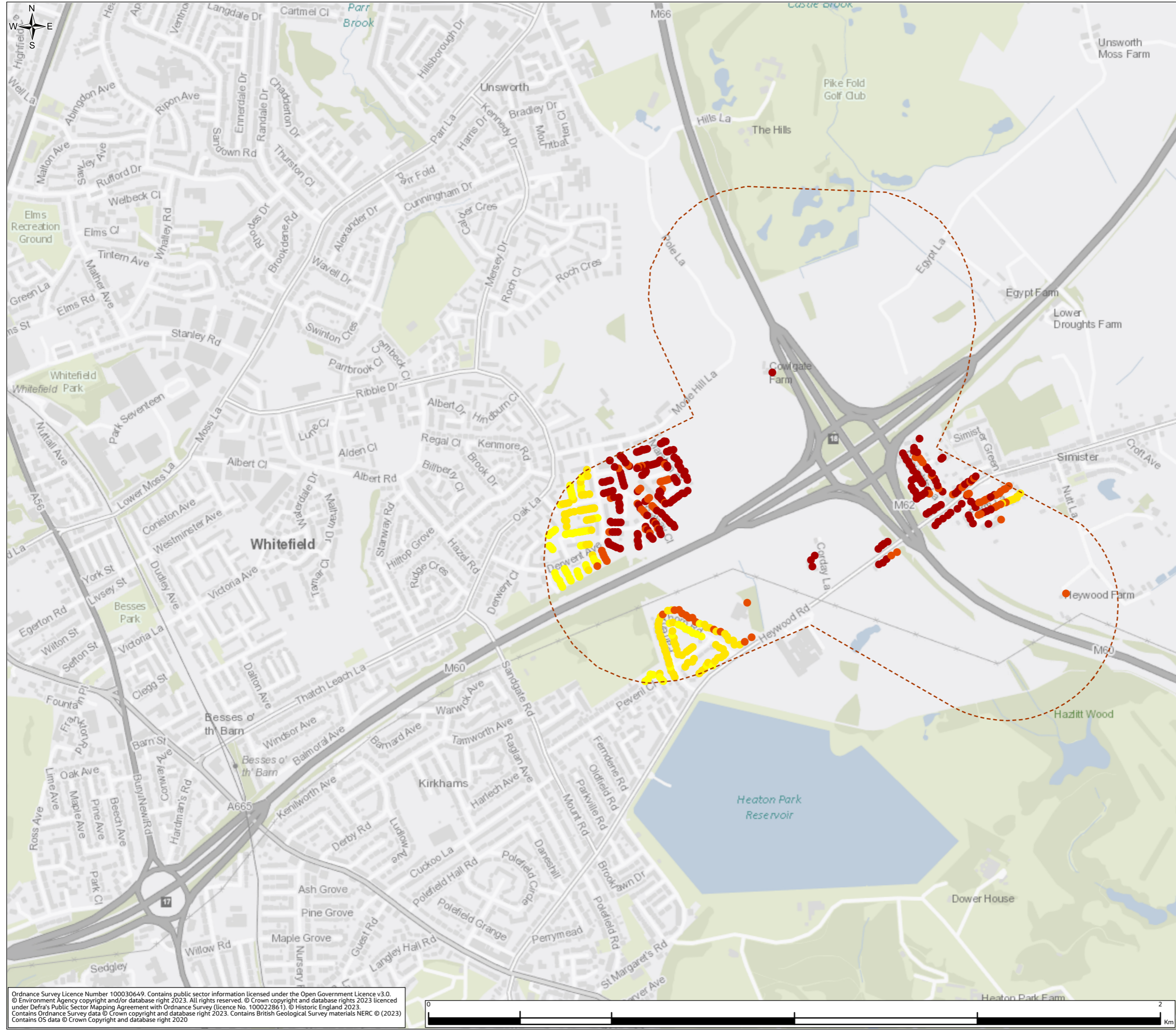
**FIGURE 11.3b**

**Legend**

Construction Noise Study Area for Mobilisation and Demobilisation

**Magnitude of night-time construction noise during Mobilisation and Demobilisation**

- Major
- Moderate
- Minor
- Negligible



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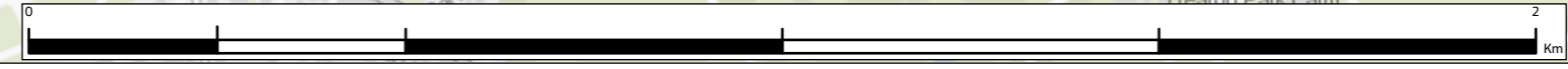
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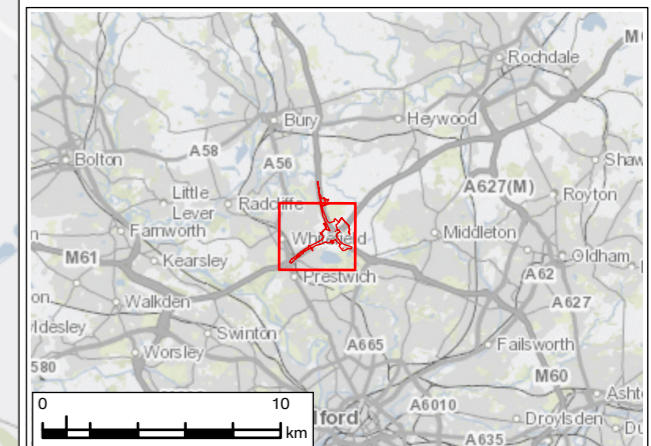
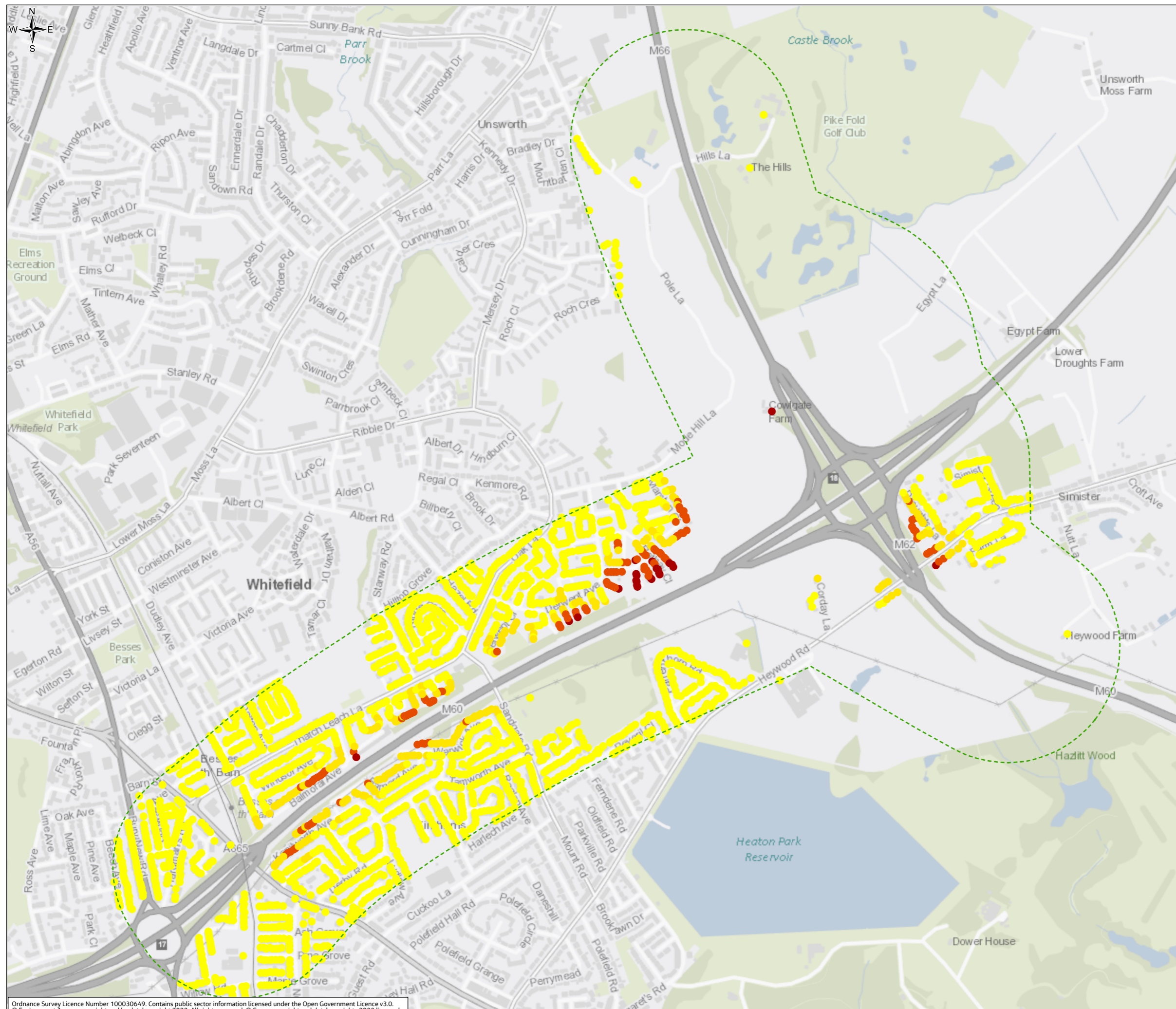
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**FIGURE 11.4a**

**Legend**

-  Construction Noise Study Area for Online works
- Magnitude of daytime construction noise during online works**
-  Major
-  Moderate
-  Minor
-  Negligible



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**ENVIRONMENTAL STATEMENT  
CONSTRUCTION NOISE – MAGNITUDE OF IMPACT  
DURING ONLINE WORKS (DAYTIME)**

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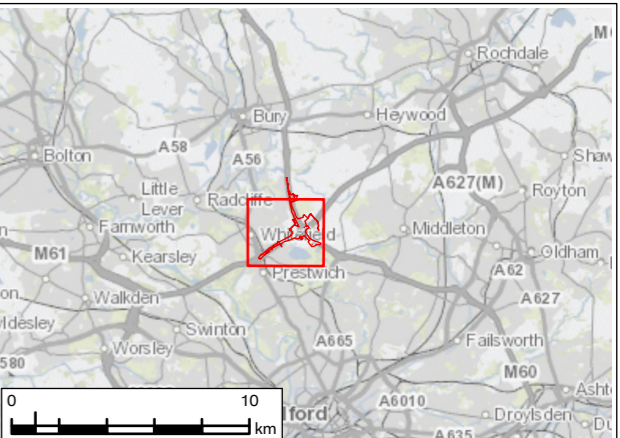
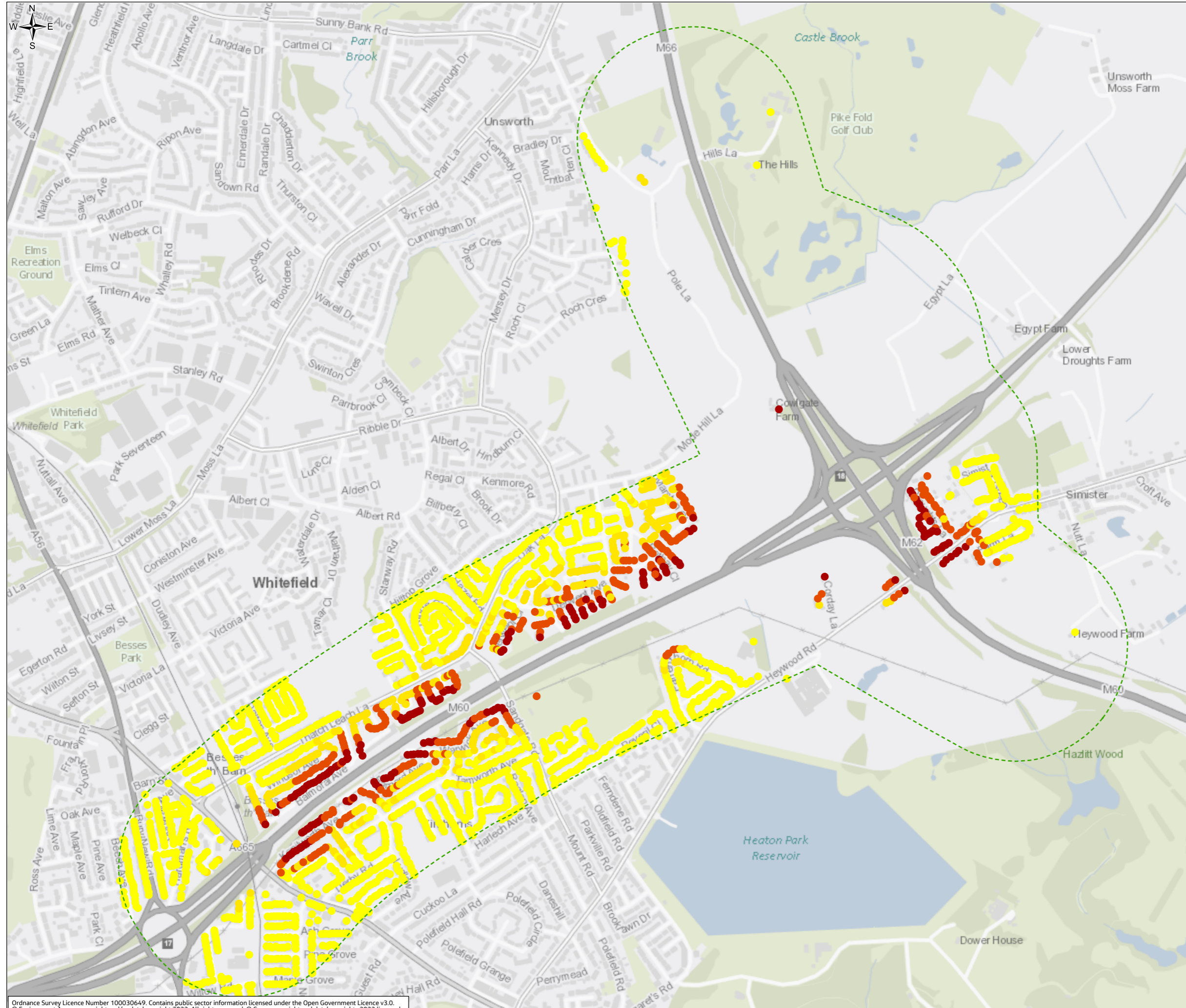
**FIGURE 11.4b**

**Legend**

Construction Noise Study Area for Online works

**Magnitude of night-time construction noise during online works**

- Major
- Moderate
- Minor
- Negligible



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ENVIRONMENTAL STATEMENT  
CONSTRUCTION NOISE – MAGNITUDE OF IMPACT  
DURING ONLINE WORKS (NIGHT-TIME)

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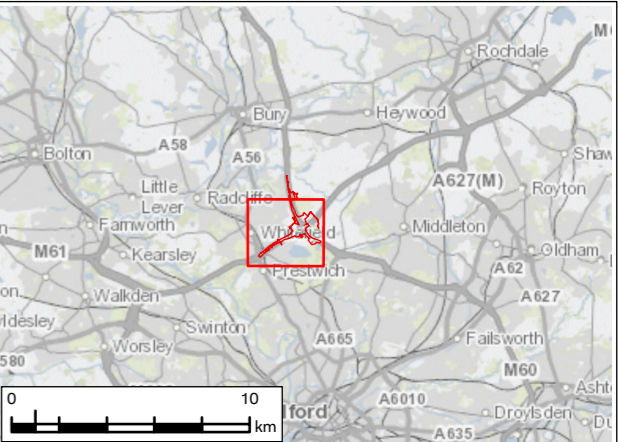
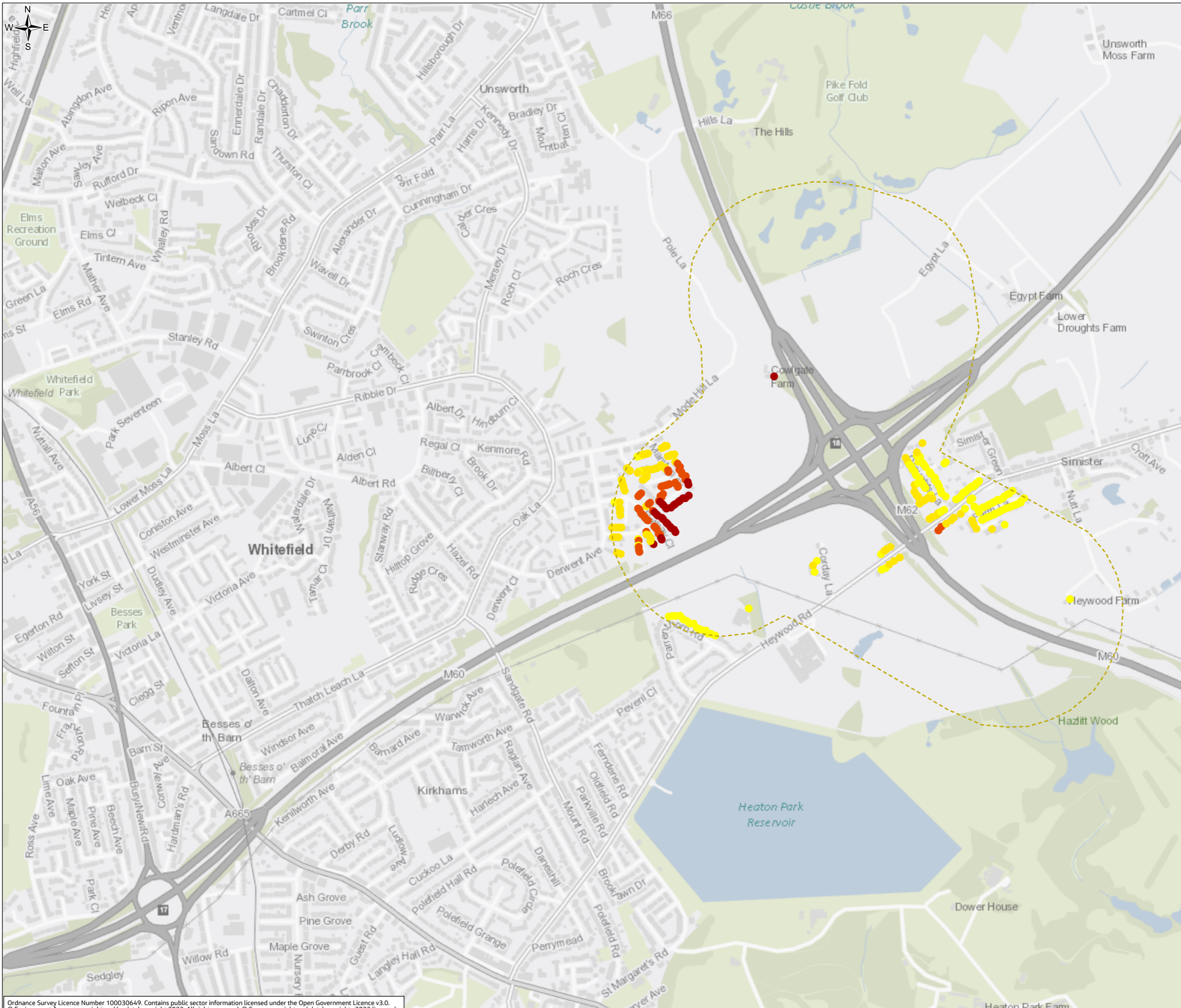
**FIGURE 11.5a**

**Legend**

Construction Noise Study Area for Offline works

**Magnitude of day-time construction noise during offline works**

- Major
- Moderate
- Minor
- Negligible



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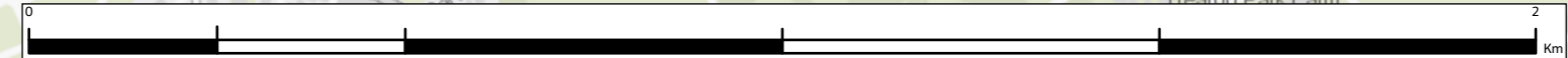
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DURING OFFLINE WORKS (DAYTIME)

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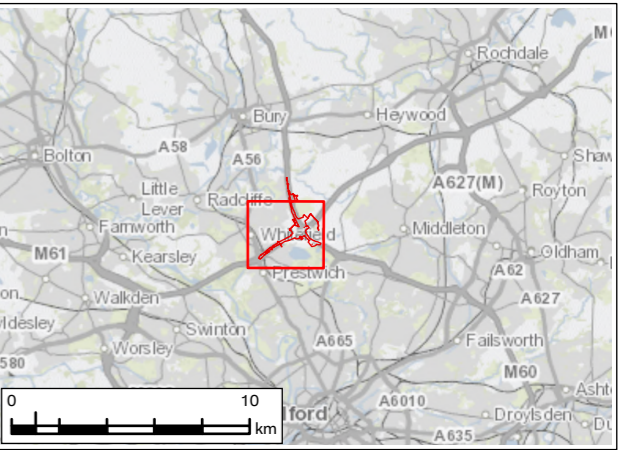
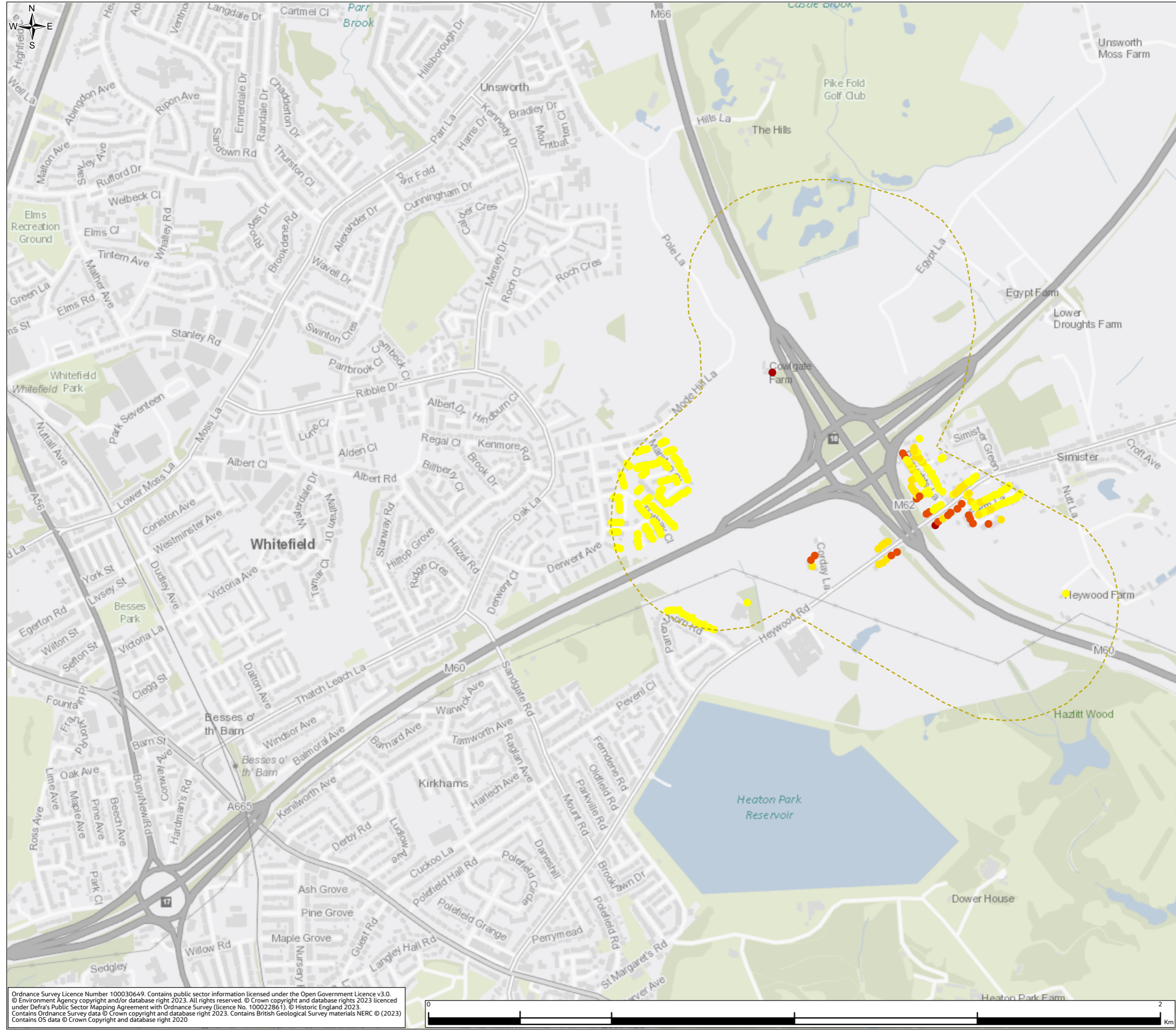
**FIGURE 11.5b**

**Legend**

Construction Noise Study Area for Offline works

**Magnitude of night-time construction noise during offline works**

- Major
- Moderate
- Minor
- Negligible



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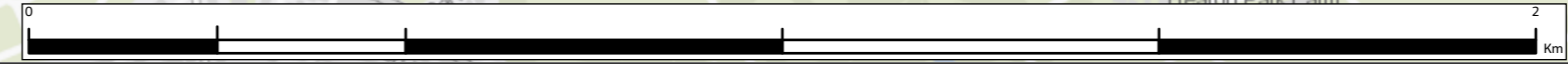


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CONSTRUCTION NOISE – MAGNITUDE OF IMPACT  
DURING OFFLINE WORKS (NIGHT-TIME)




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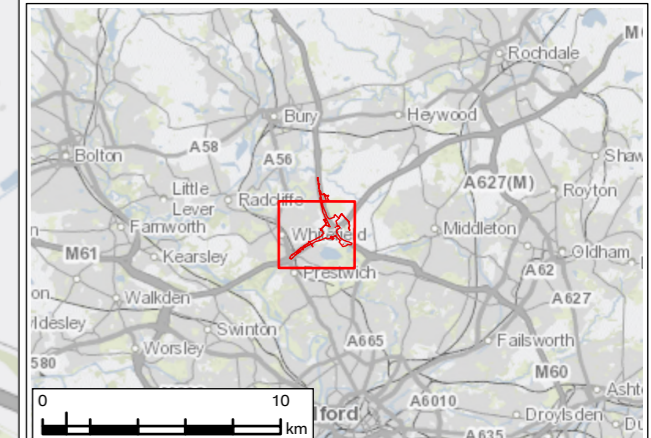
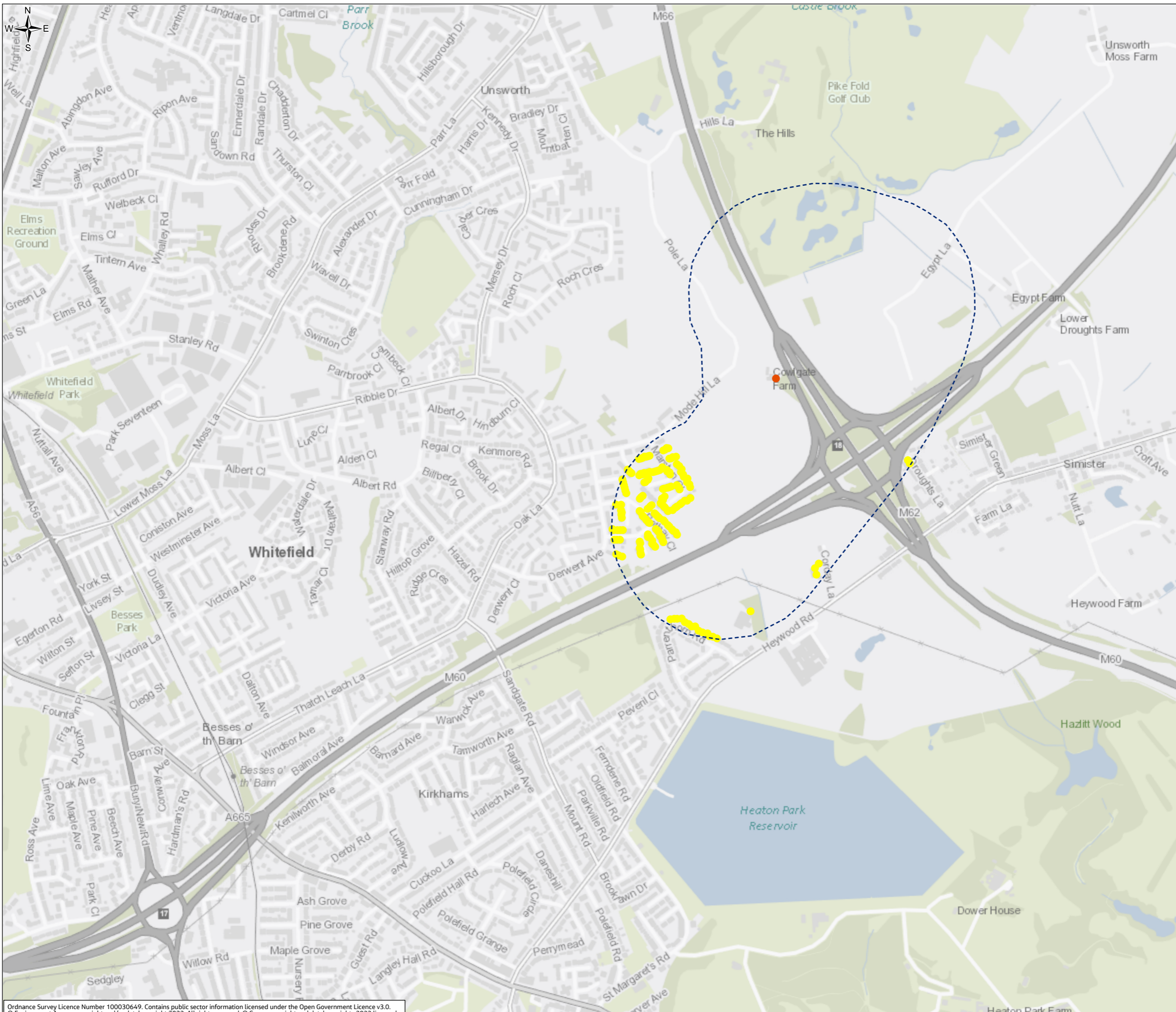
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**FIGURE 11.6a**

**Legend**

-  Construction Noise Study Area for Structures works
- Magnitude of daytime construction noise during structures works**
-  Moderate
-  Negligible



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CONSTRUCTION NOISE – MAGNITUDE OF IMPACT  
DURING STRUCTURES WORKS (DAYTIME)

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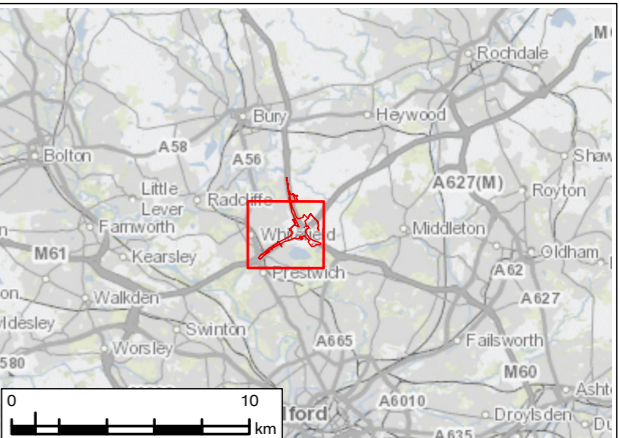
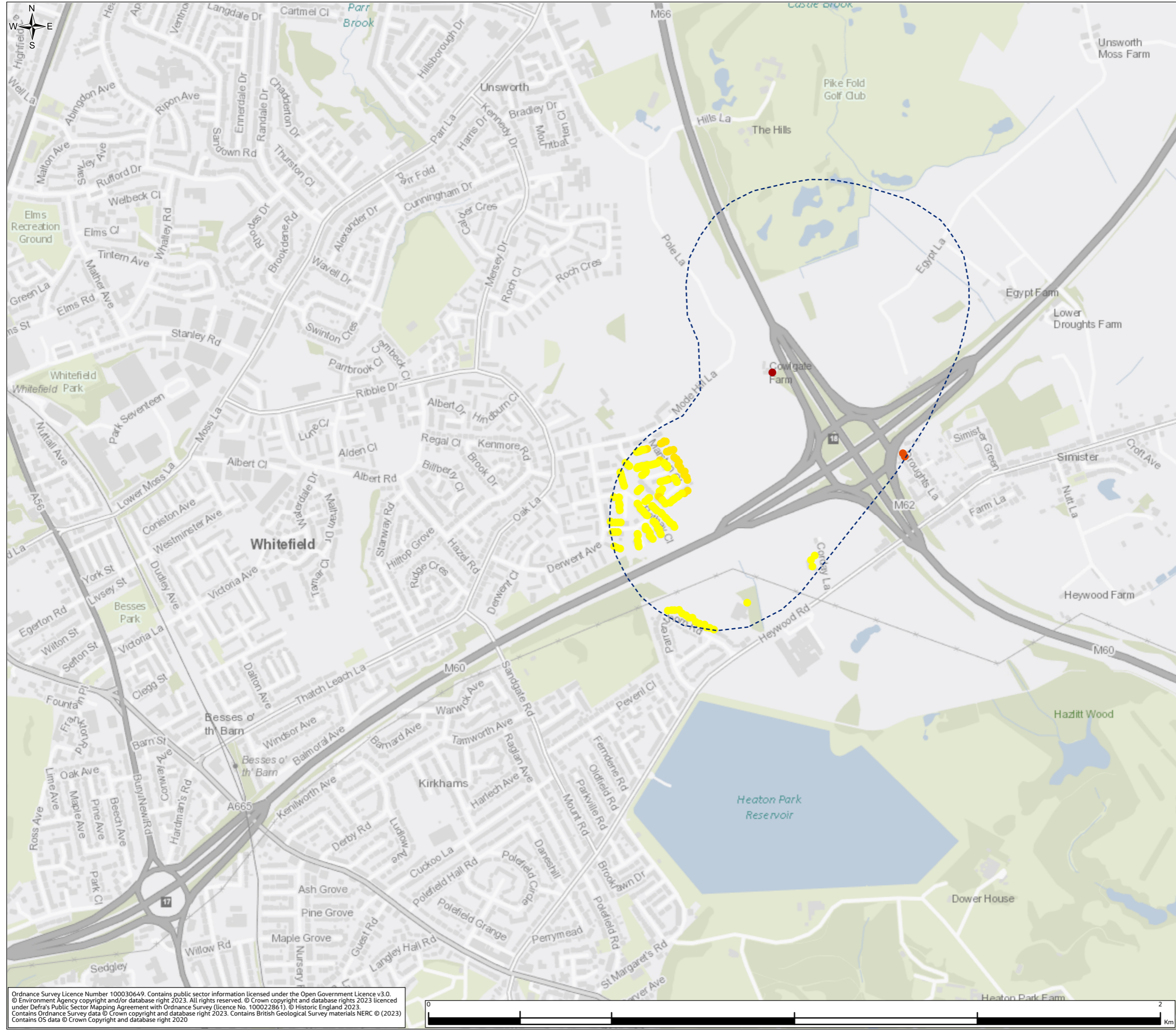
**FIGURE 11.6b**

**Legend**

Construction Noise Study Area for Structures works

**Magnitude of night-time construction noise during structures works**

- Major
- Moderate
- Minor
- Negligible



P01	JAN 24	For DCO application	LT	MS	JR	BB
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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**Project**  
REGIONAL DELIVERY PARTNERSHIP  
M60/M62/M66 SIMISTER ISLAND INTERCHANGE

**Drawing Title**  
ENVIRONMENTAL STATEMENT  
CONSTRUCTION NOISE – MAGNITUDE OF IMPACT  
DURING STRUCTURES WORKS (NIGHT-TIME)

**Drawing Status**  
S4 – SUITABLE FOR STAGED APPROVAL

Scale @ A3	1:10,000	DO NOT SCALE
Jacobs No.	B36601F0	
Client No.	HE548642	Rev P01

**Drawing Number**  
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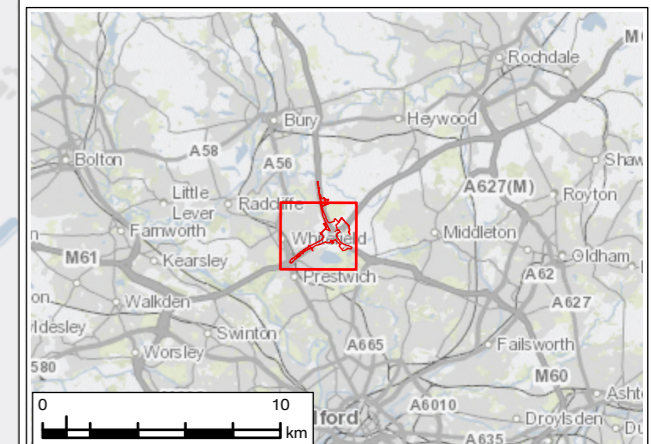
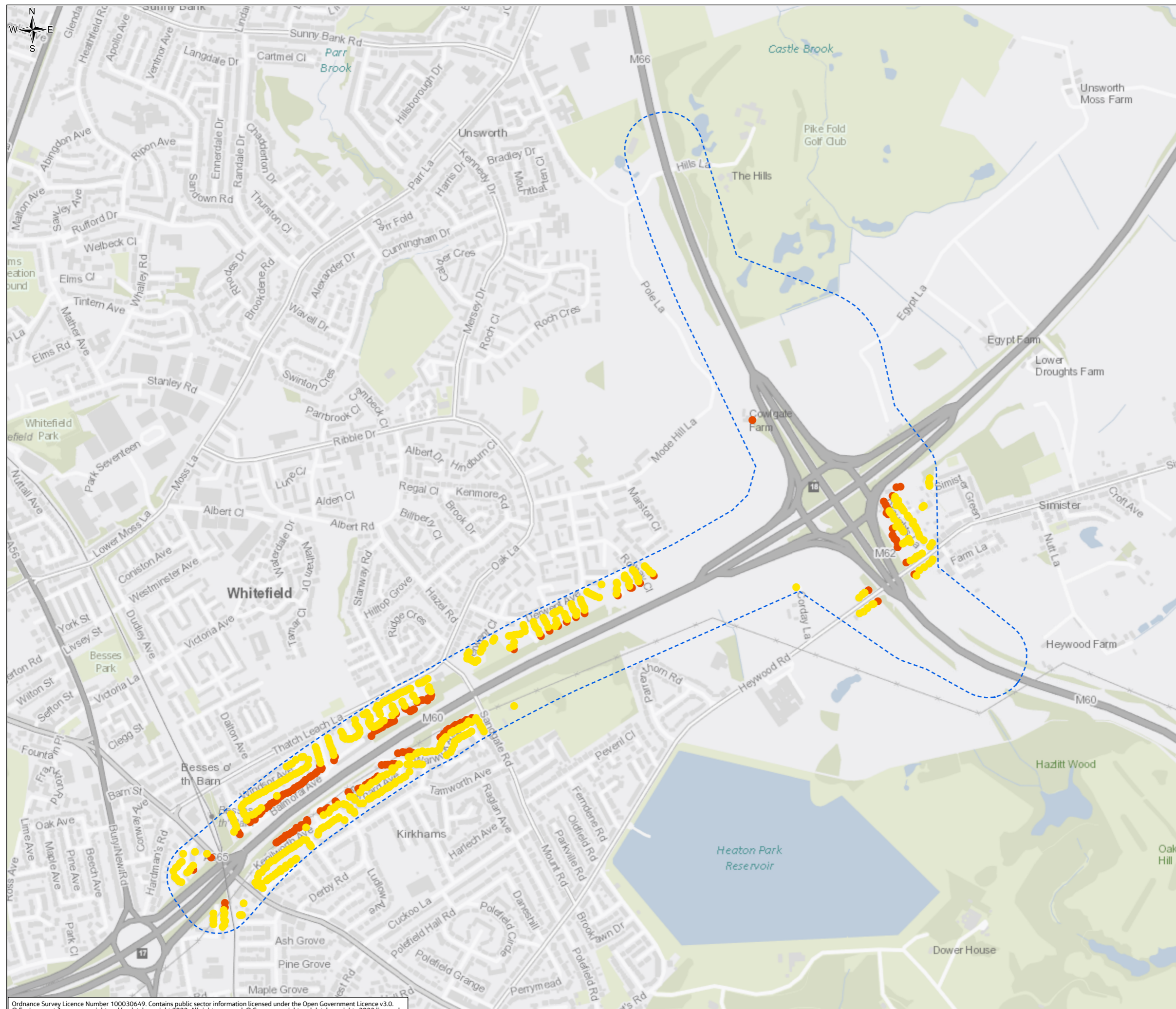




**FIGURE 11.7a**

**Legend**

- Construction Vibration Study Area
- Magnitude of construction vibration impact at receptors during compaction**
- Minor
- Moderate



P01	JAN 24	For DCO application	LT	MS	JR	BB
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Development Consent Order Number: TR010064			Development Consent Order Drawing Number: 6.2			

Client

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**REGIONAL DELIVERY PARTNERSHIP  
 M60/M62/M66 SIMISTER ISLAND INTERCHANGE**

Drawing Title  
**ENVIRONMENTAL STATEMENT  
 CONSTRUCTION VIBRATION – MAGNITUDE OF IMPACT  
 DURING COMPACTION**


Drawing Status	S4 – SUITABLE FOR STAGED APPROVAL	
Scale @ A3	1:10,000	DO NOT SCALE
Jacobs No.	B36601F0	Rev P01
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Drawing Number	HE548642-JAC-LDC-SII_MLT-SK-LA-0022	

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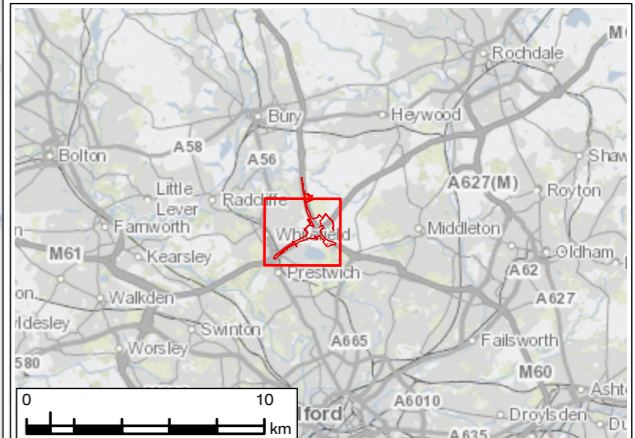
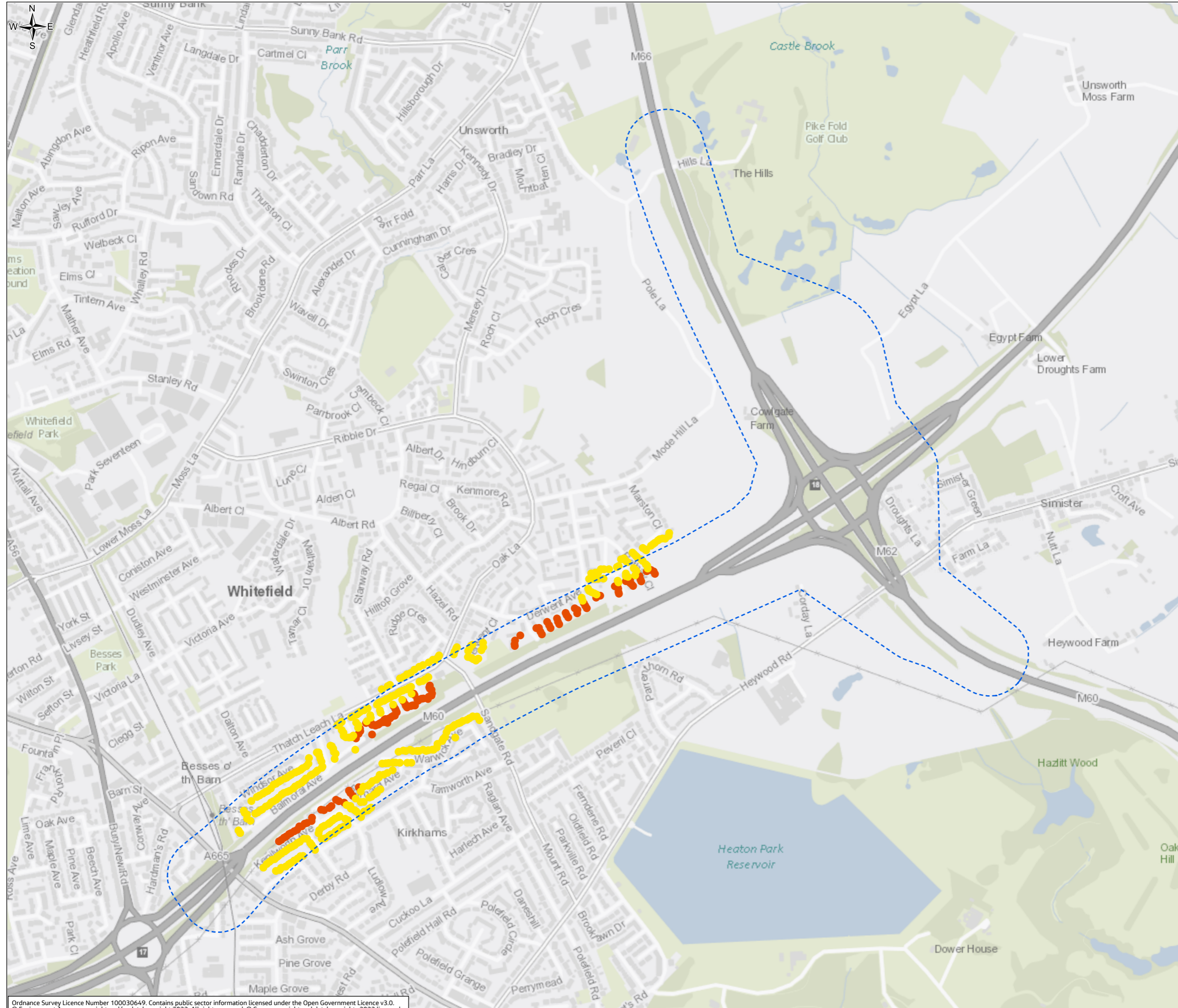
**FIGURE 11.7b**

**Legend**

 Construction Vibration Study Area

**Magnitude of construction vibration impact at receptors during piling**

-  Minor
-  Moderate



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**Drawing Title**  
ENVIRONMENTAL STATEMENT  
CONSTRUCTION VIBRATION – MAGNITUDE OF IMPACT  
DURING PILING

**Drawing Status**  
S4 – SUITABLE FOR STAGED APPROVAL

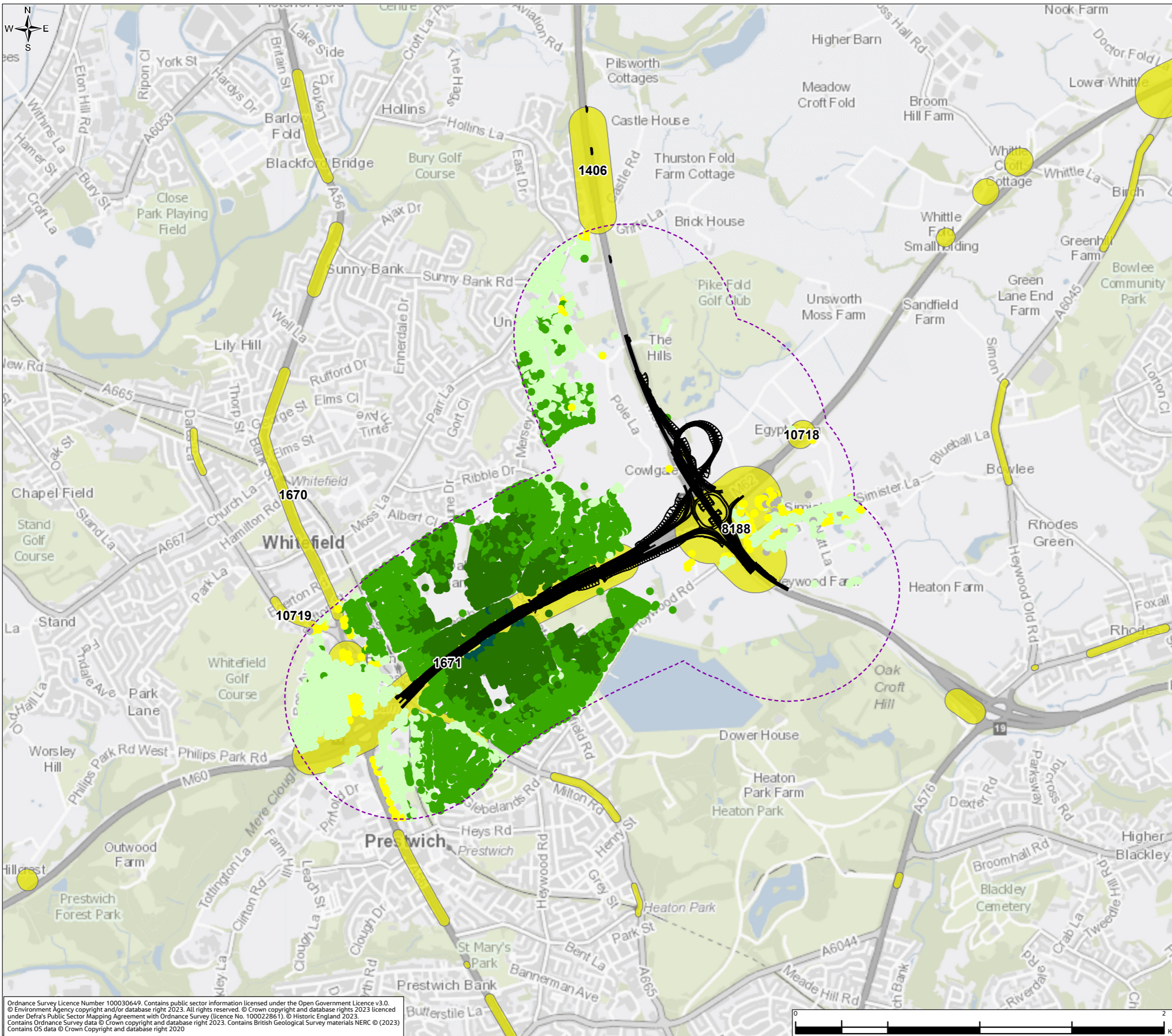
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Client No.	HE548642	

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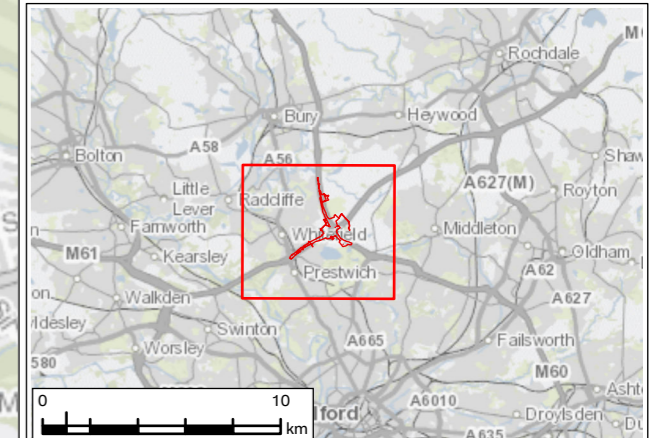
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**FIGURE 11.8a**



- Legend**
- Scheme highway design
  - - - Operational Noise Study Area (600m)
  - Noise Important Area (NIA)
- Operational Daytime Noise Opening Year Magnitude of Change**
- Major Beneficial
  - Moderate Beneficial
  - Minor Beneficial
  - Negligible Beneficial
  - No Change
  - Negligible Adverse
  - Minor Adverse

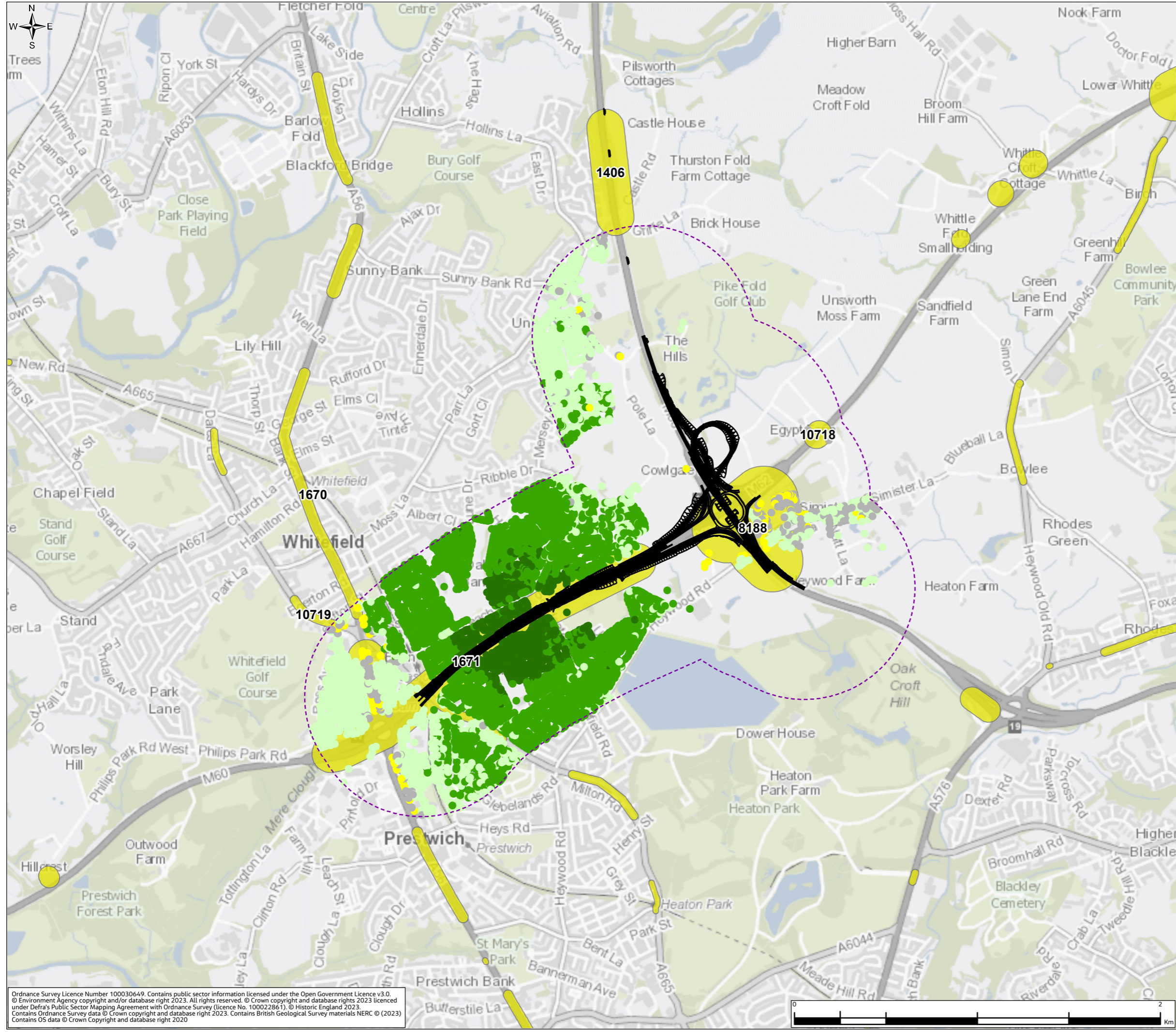


P01	JAN 24	For DCO application	LT	MS	JR	BB
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Number: TR010064			Development Consent Order Drawing Number: 6.2			
<b>Project</b> REGIONAL DELIVERY PARTNERSHIP M60/M62/M66 SIMISTER ISLAND INTERCHANGE						
<b>Drawing Title</b> ENVIRONMENTAL STATEMENT ROAD TRAFFIC NOISE – MAGNITUDE OF CHANGE IN THE 2029 OPENING YEAR (DAYTIME)						
<b>Drawing Status</b> S4 – SUITABLE FOR STAGED APPROVAL						
Scale @ A3		1:20,000	DO NOT SCALE			
Jacobs No.		B36601F0	Rev P01			
Client No.		HE548642				
<b>Drawing Number</b> HE548642-JAC-LDC-SII_MLT-SK-LA-0024						

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**FIGURE 11.8b**

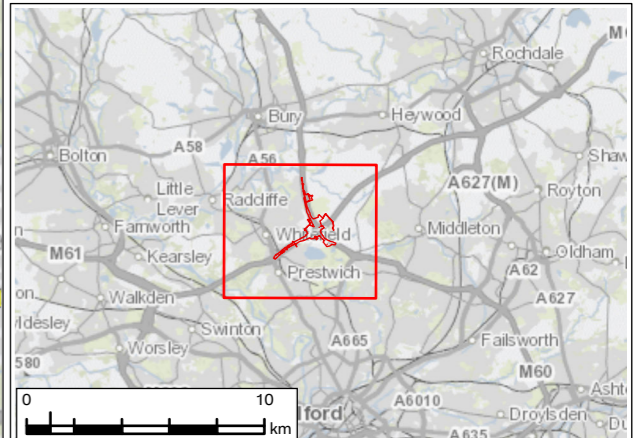


**Legend**

- Scheme highway design
- - - Operational Noise Study Area (600m)
- Noise Important Area (NIA)

**Operational Night Time Noise Opening Year Magnitude of Change**

- Moderate Beneficial
- Minor Beneficial
- Negligible Beneficial
- No Change
- Negligible Adverse



P01	JAN 24	For DCO application	LT	MS	JR	BB
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**Project**  
REGIONAL DELIVERY PARTNERSHIP  
M60/M62/M66 SIMISTER ISLAND INTERCHANGE

**Drawing Title**  
ENVIRONMENTAL STATEMENT  
ROAD TRAFFIC NOISE – MAGNITUDE OF CHANGE IN THE  
2029 OPENING YEAR (NIGHT-TIME)

**Drawing Status**  
S4 – SUITABLE FOR STAGED APPROVAL

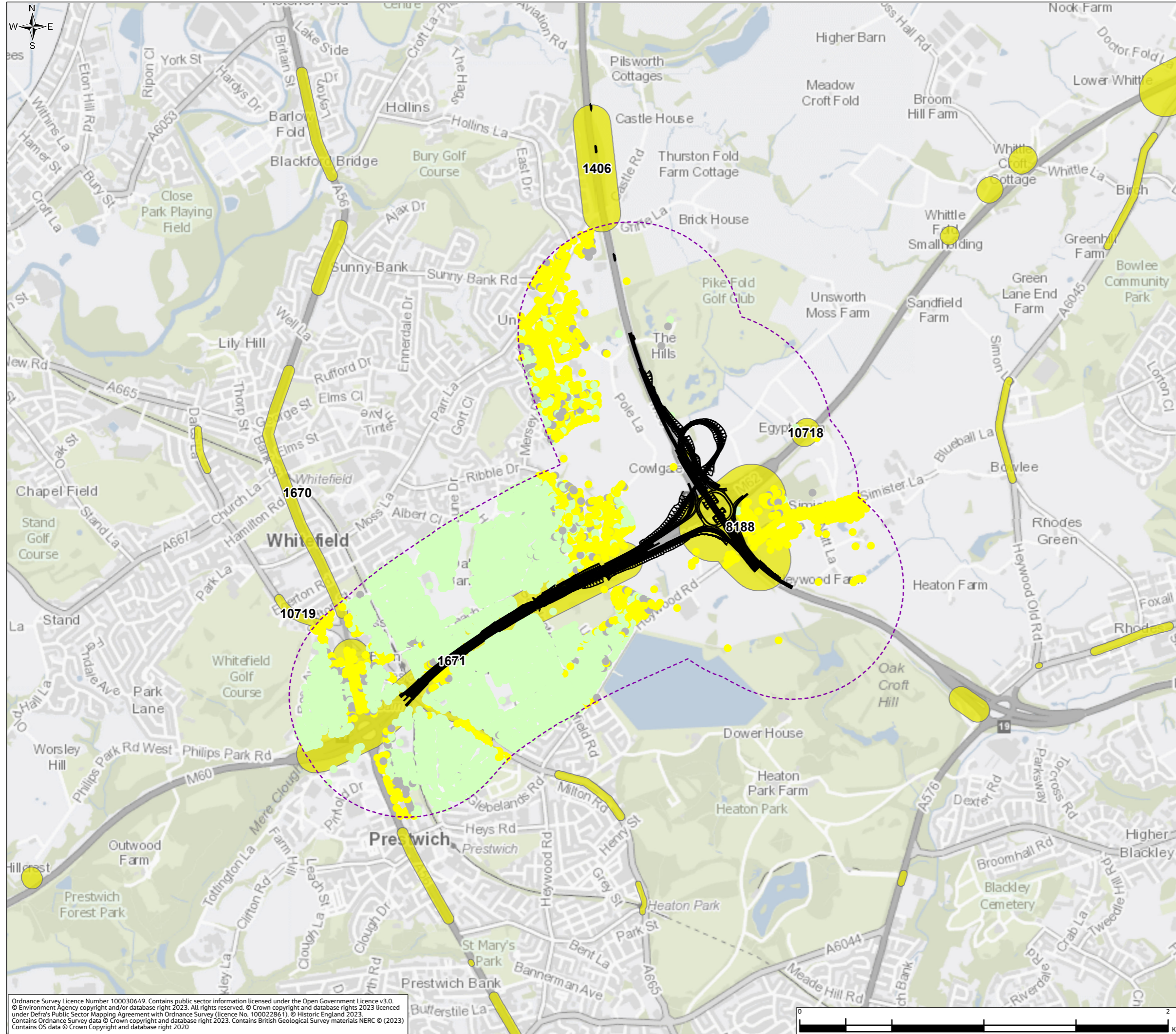
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**FIGURE 11.9a**

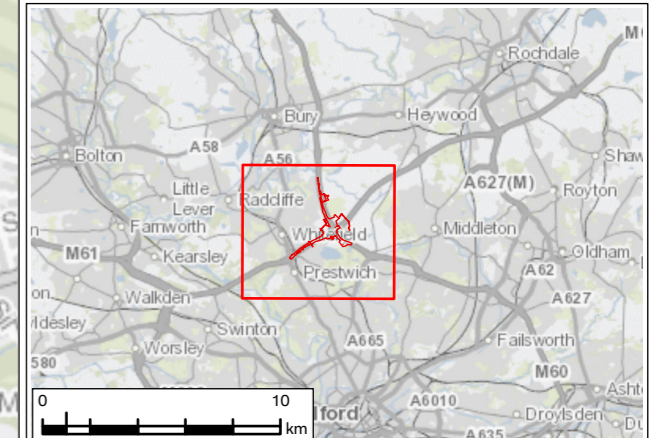


**Legend**

- Scheme highway design
- - - Operational Noise Study Area (600m)
- Noise Important Area (NIA)

**Operational Daytime Noise Future Year Magnitude of Change**

- Negligible Beneficial
- No Change
- Negligible Adverse

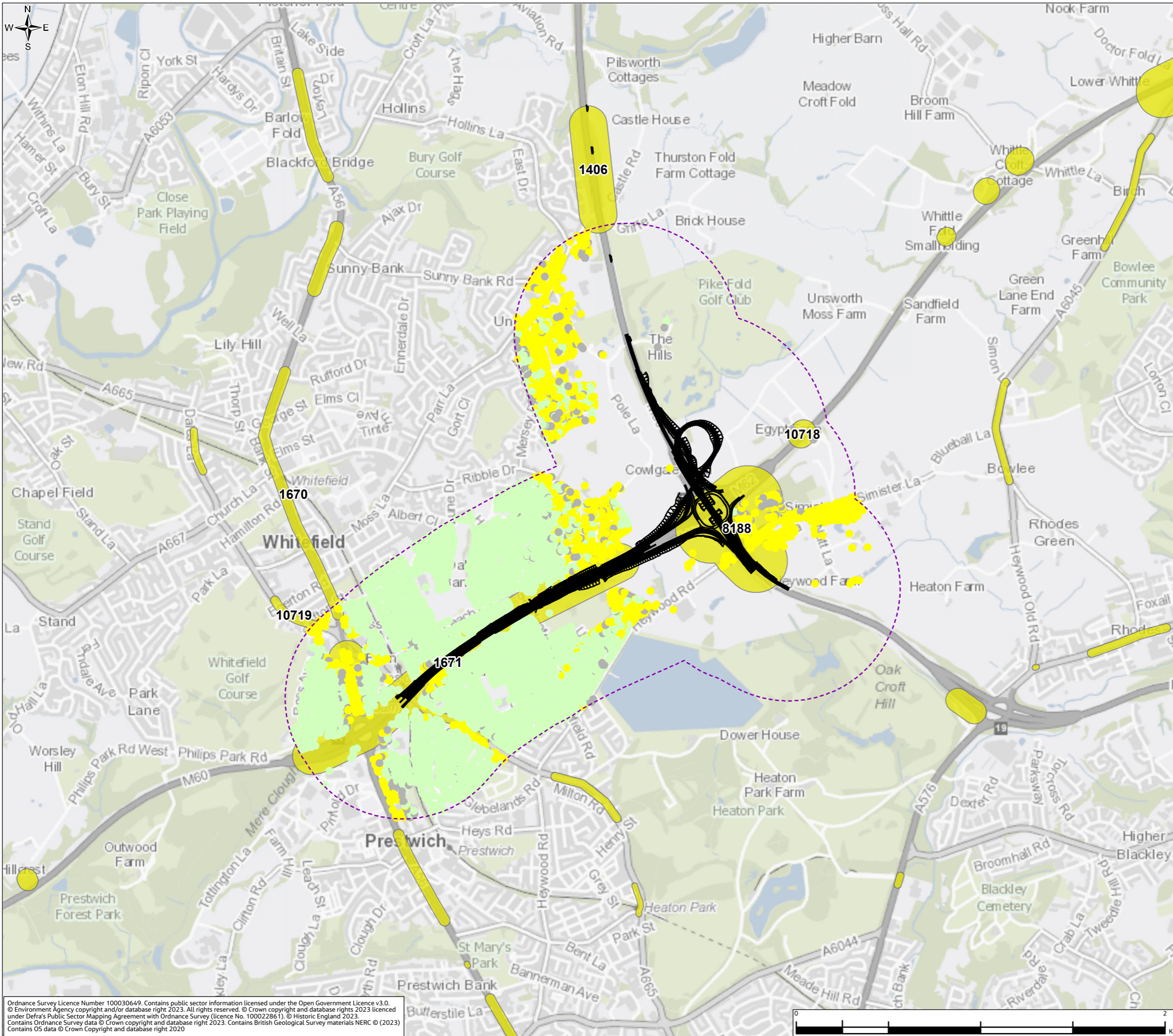


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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Number: TR010064			Development Consent Order Drawing Number: 6.2			
<b>Project</b> REGIONAL DELIVERY PARTNERSHIP M60/M62/M66 SIMISTER ISLAND INTERCHANGE						
<b>Drawing Title</b> ENVIRONMENTAL STATEMENT ROAD TRAFFIC NOISE – MAGNITUDE OF CHANGE IN THE 2044 FUTURE YEAR (DAYTIME)						
<b>Drawing Status</b> S4 – SUITABLE FOR STAGED APPROVAL						
Scale @ A3		1:20,000	DO NOT SCALE			
Jacobs No.		B36601F0	Rev P01			
Client No.		HE548642				
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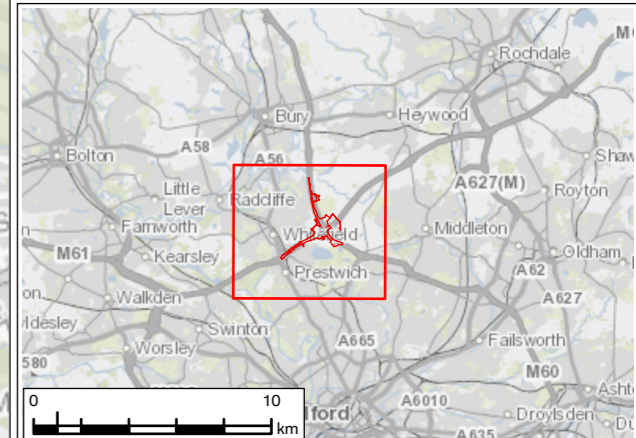
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**FIGURE 11.9b**



- Legend**
- Scheme highway design
  - - - Operational Noise Study Area (600m)
  - Noise Important Area (NIA)
- Operational Night Time Noise Future Year Magnitude of Change**
- Negligible Beneficial
  - No Change
  - Negligible Adverse



P01	JAN 24	For DCO application	LT	MS	JR	BB
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Development Consent Order Number: TR010064			Development Consent Order Drawing Number: 6.2			



**Project**  
 REGIONAL DELIVERY PARTNERSHIP  
 M60/M62/M66 SIMISTER ISLAND INTERCHANGE

**Drawing Title**  
 ENVIRONMENTAL STATEMENT  
 ROAD TRAFFIC NOISE – MAGNITUDE OF CHANGE IN THE  
 2044 FUTURE YEAR (NIGHT-TIME)

**Drawing Status**  
 S4 – SUITABLE FOR STAGED APPROVAL

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