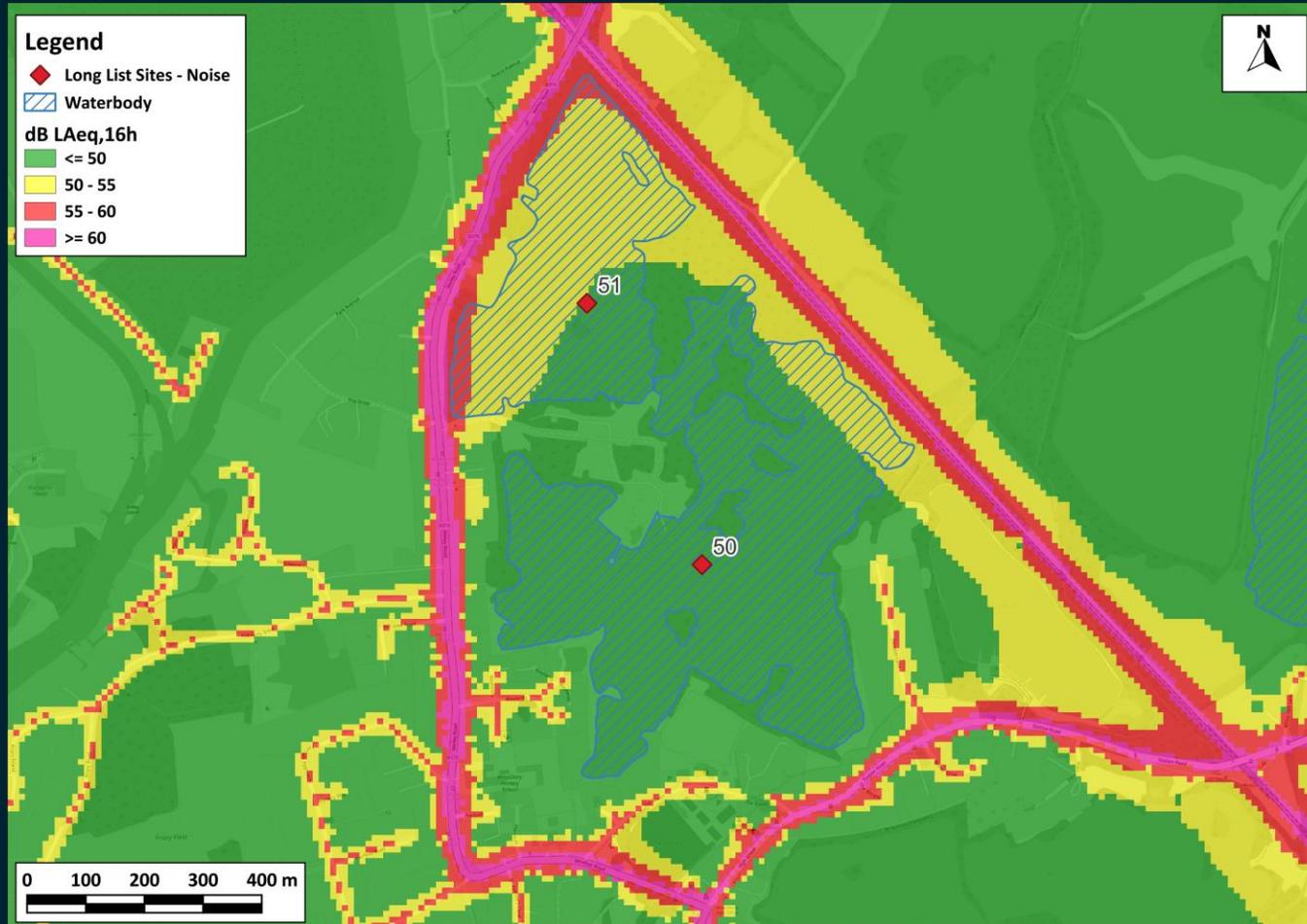


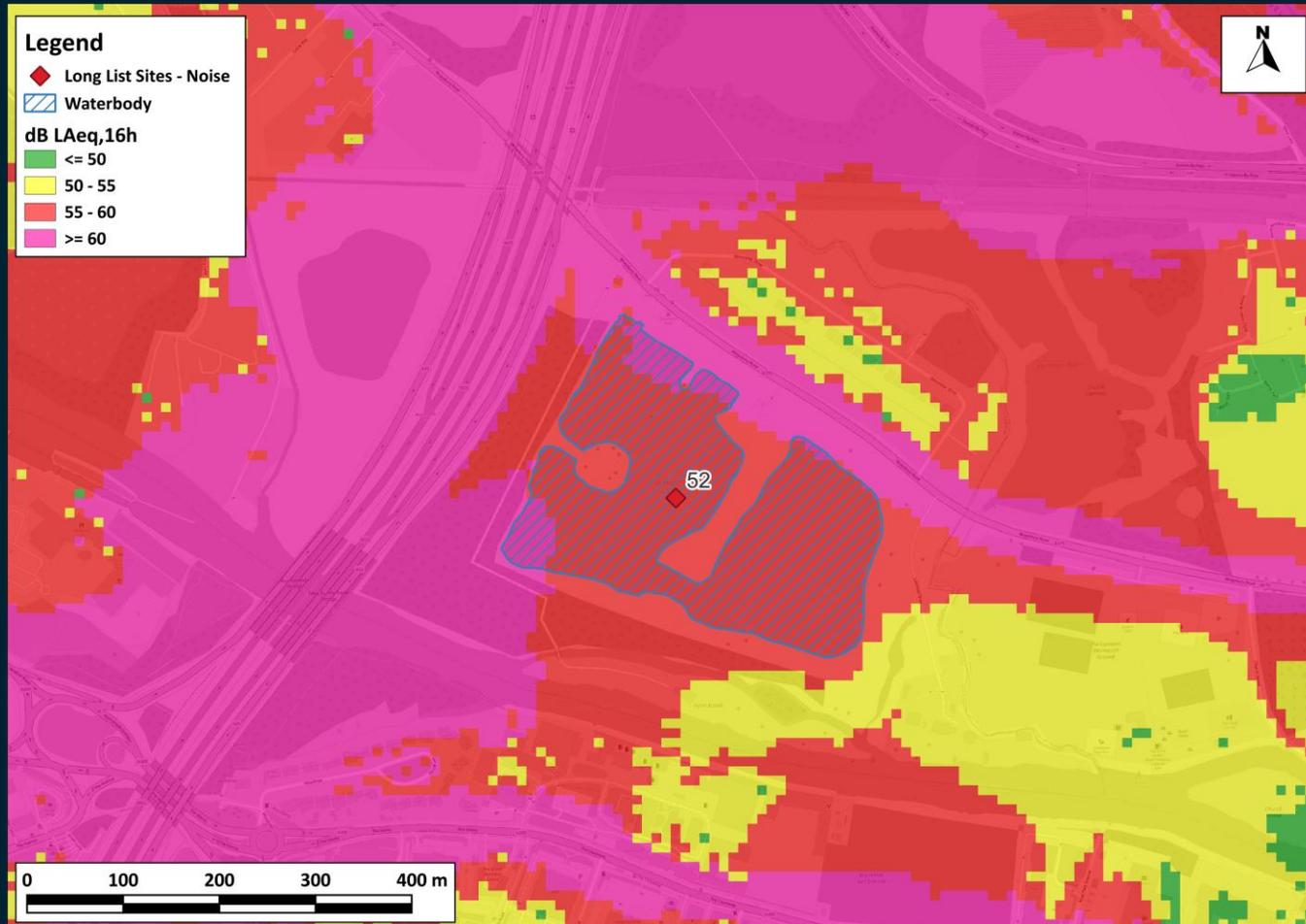
# Site – 50 – 51 (Amber Lakes / ????)



## Summary

- Round 4 Strategic Noise Maps indicate that only small areas of Site 50 exceeds 55 dB  $L_{Aeq,16h}$ , 93% of the area below the screening criterion is also below 50 dB  $L_{Aeq,16h}$ .
  - However, following review of Heathrow 2023 noise contours air noise levels reach 60 dB  $L_{Aeq,16h}$  based on average modal split contours, 60 dB  $L_{Aeq,16h}$  during westerly operations.
  - **This Site does not align with the adopted criteria.**
- Small areas of Site 51 exceed 55 dB  $L_{Aeq,16h}$ , 28% of the area below the screening criterion is also below 50 dB  $L_{Aeq,16h}$ .
  - However, following review of Heathrow 2023 noise contours reach 60 dB  $L_{Aeq,16h}$  based on average modal split contours, 60 dB  $L_{Aeq,16h}$  during westerly operations.
  - **This Site does not align with the adopted criteria.**

# Site – 52 (Queensmead Lake)



## Summary

- Round 4 Strategic Noise Maps indicate the entirety of Site 52 exceeds 55 dB  $L_{Aeq,16h}$ .
- Following review of Heathrow 2023 noise contours air noise levels reach 54 dB  $L_{Aeq,16h}$  based on average modal split contours, 54 dB  $L_{Aeq,16h}$  during westerly operations.
- This Site does not align with the adopted criteria.

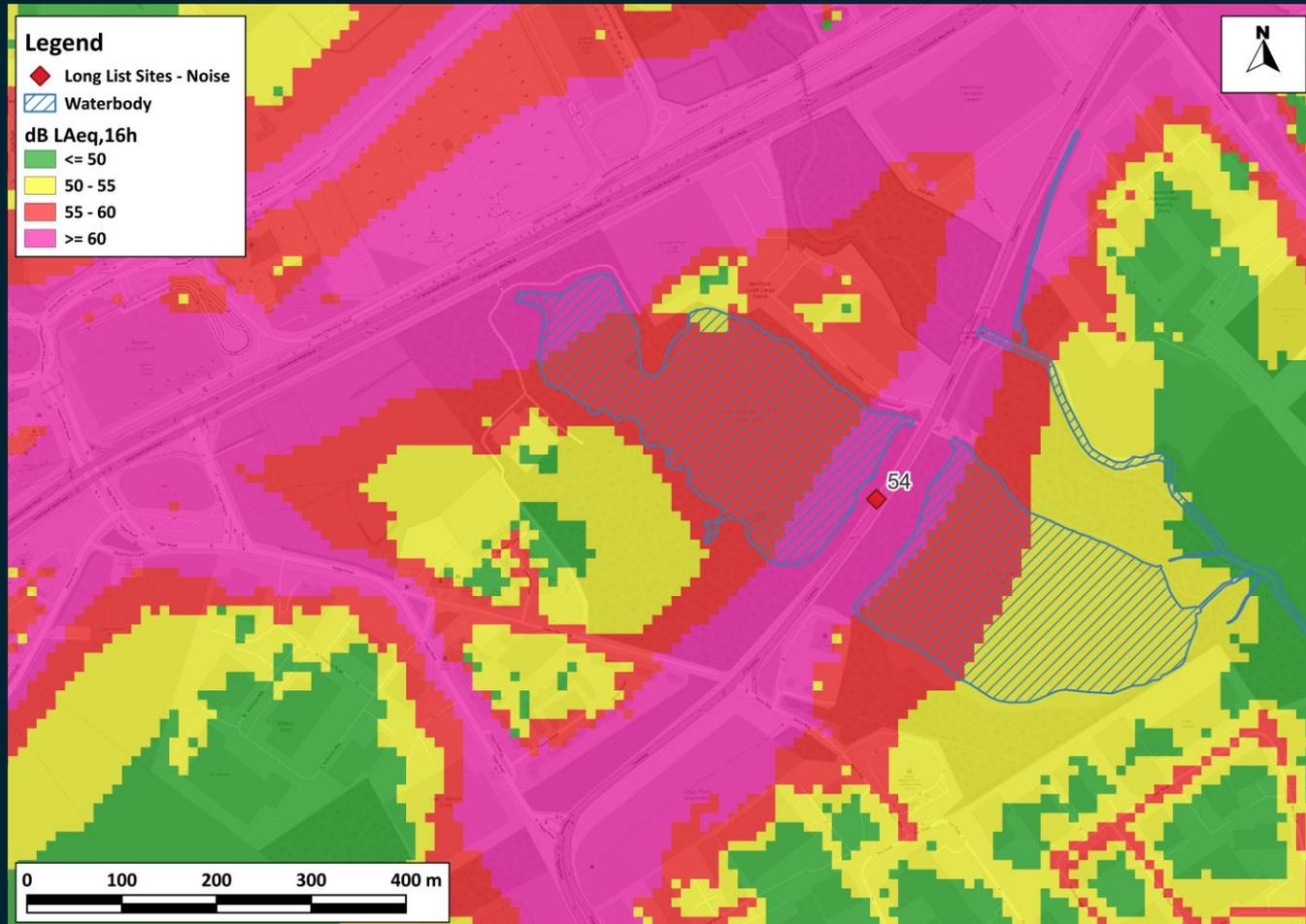
# Site – 53 (Kingsmead Quarry)



## Summary

- Round 4 Strategic Noise Maps indicate the entirety of Site 53 is below 50 dB  $L_{Aeq,16h}$ .
- However, following review of Heathrow 2023 noise contours air noise levels reach 63 dB  $L_{Aeq,16h}$  based on average modal split contours, 63 dB  $L_{Aeq,16h}$  during westerly operations.
- This Site does not align with the adopted criteria.

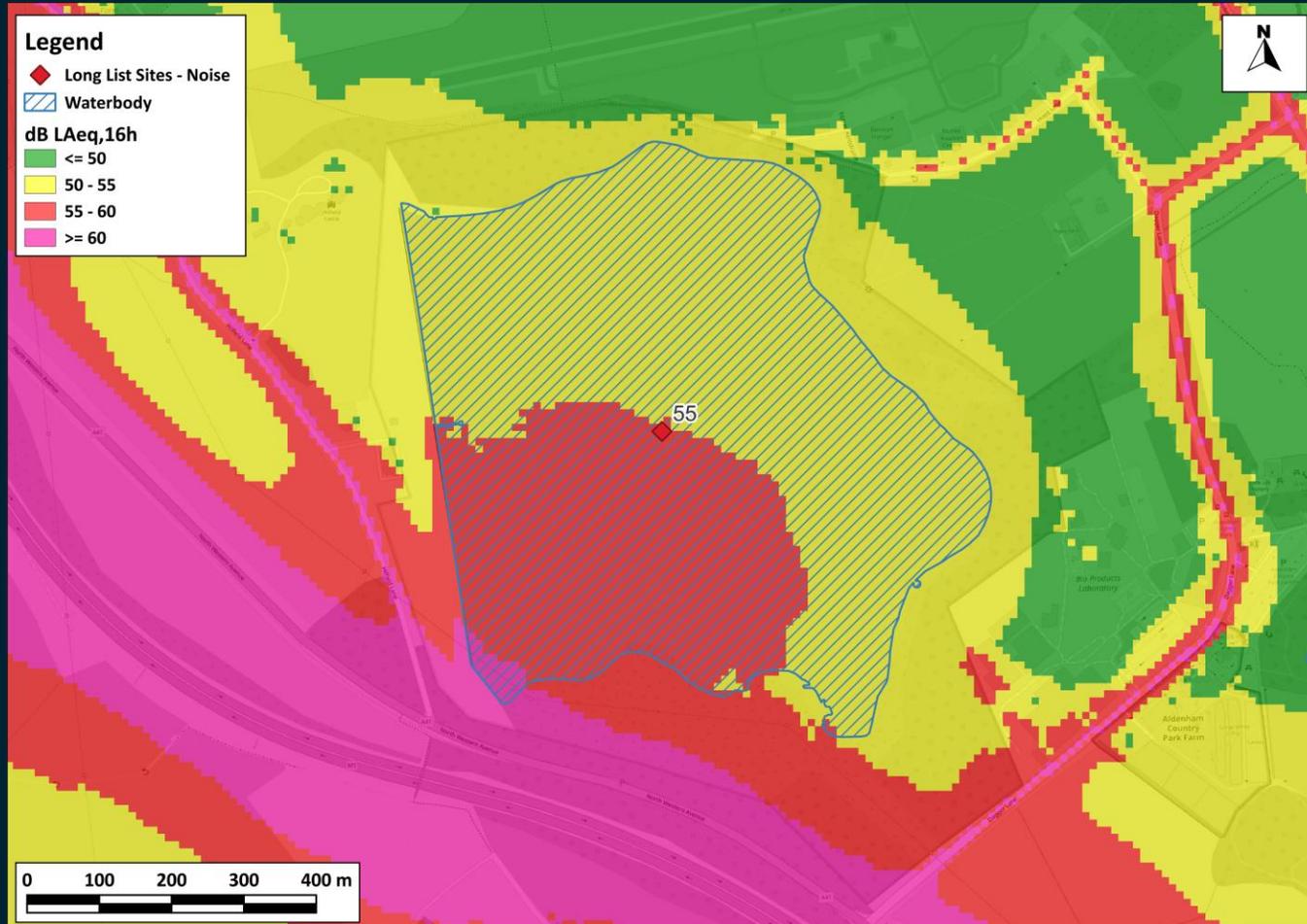
# Site – 54 (Eastern Balancing Reservoir)



## Summary

- Round 4 Strategic Noise Maps indicate there is only 4.9 Ha of Site 54 below 55 dB  $L_{Aeq,16h}$ , and none below the lower screening criteria (50 dB  $L_{Aeq,16h}$ ).
- Following review of Heathrow 2023 noise contours air noise levels reach 66 dB  $L_{Aeq,16h}$  based on average modal split contours, 66 dB  $L_{Aeq,16h}$  during westerly operations.
- This Site does not align with the adopted criteria.

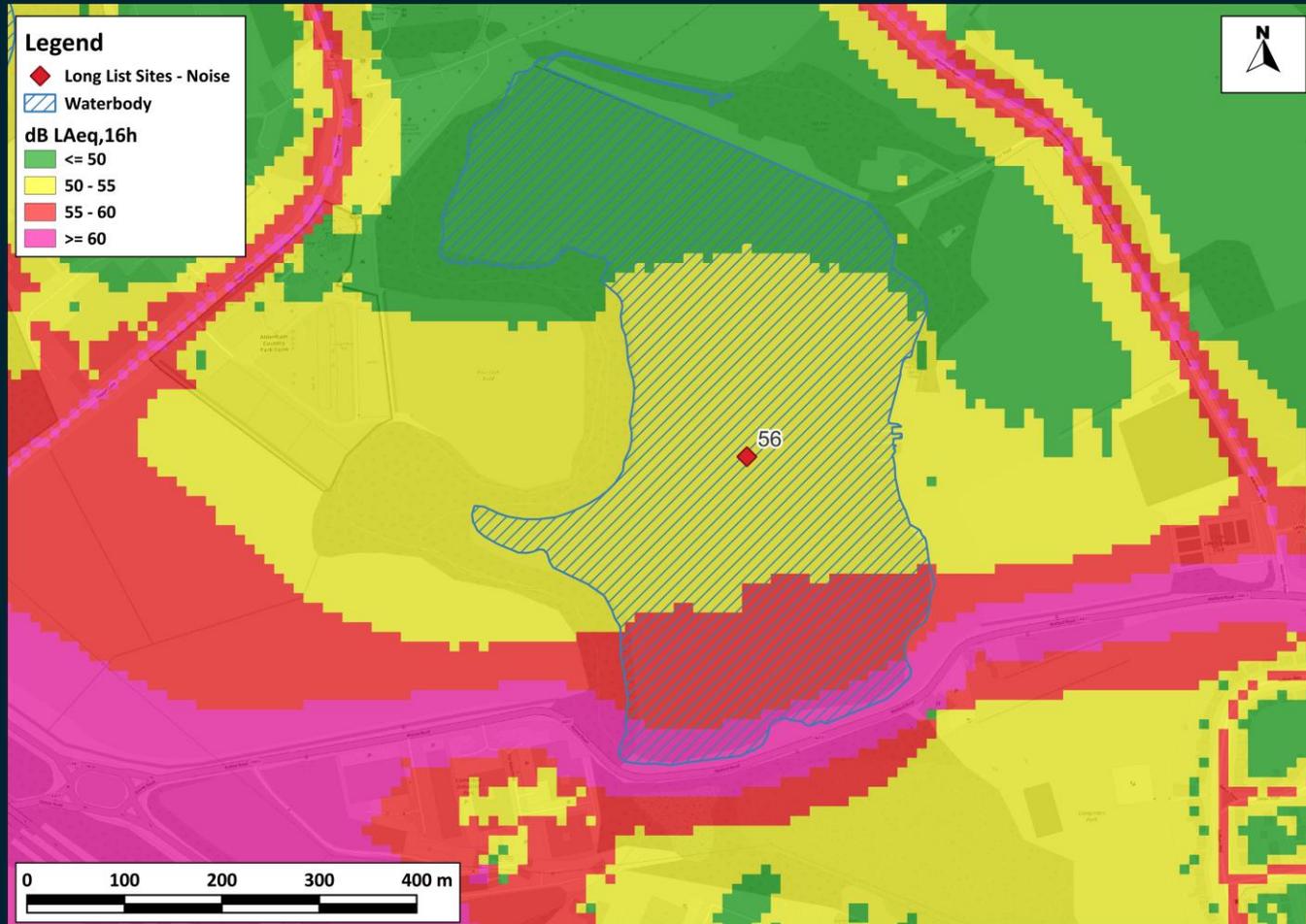
# Site – 55 (Hilfield Park Reservoir)



## Summary

- Round 4 Strategic Noise Maps indicate an appreciable area of Site 55 exceeds 55 dB  $L_{Aeq,16h}$ , there is no area below 50 dB  $L_{Aeq,16h}$ . however, there are some pockets on land.
  - This Site is not ideal and is subject to appreciable noise constraints.

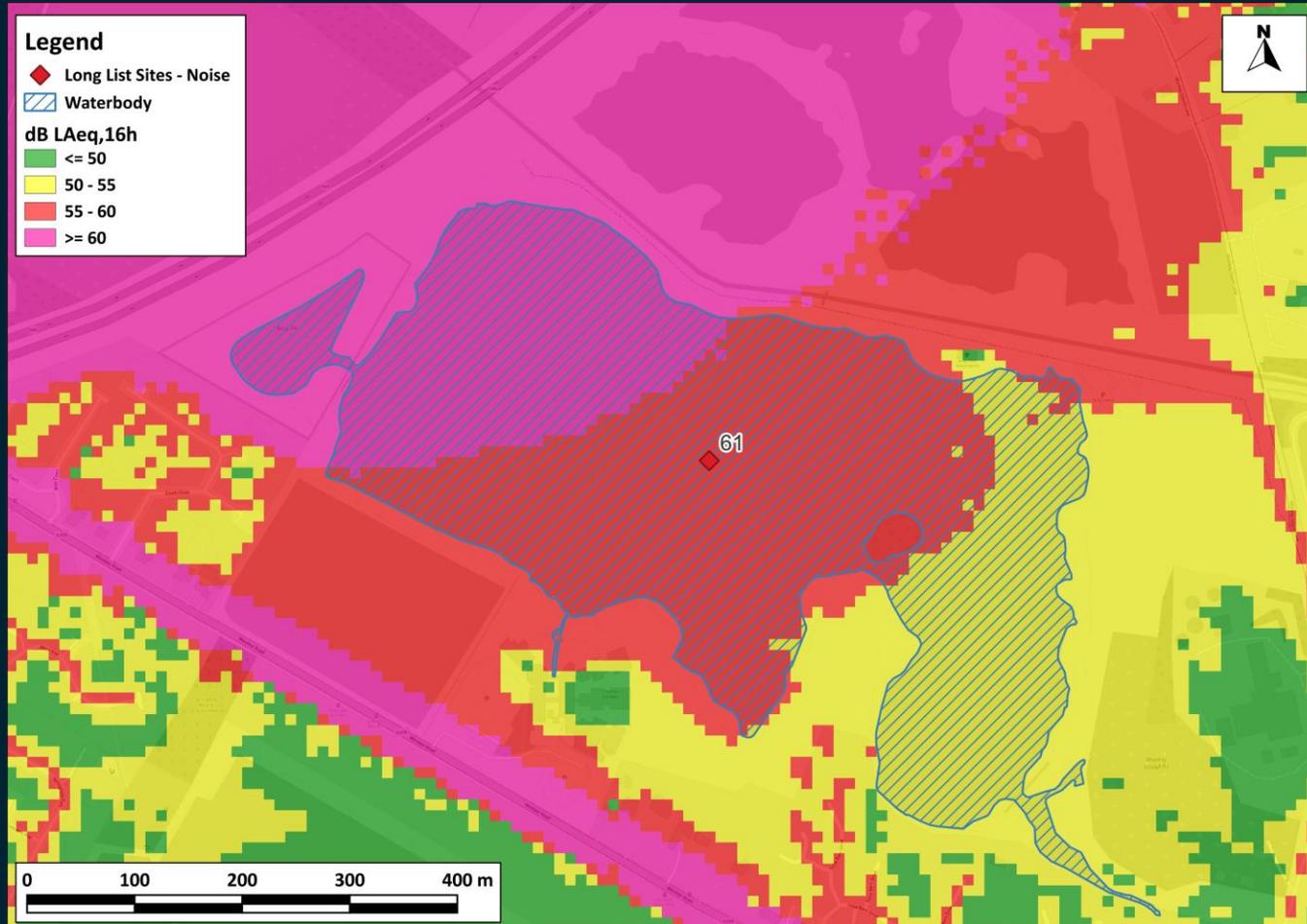
# Site – 56 (Aldenham Reservoir)



## Summary

- Round 4 Strategic Noise Maps indicate an area of Site 56 exceeds 55 dB  $L_{Aeq,16h}$ , 37% of the area below the screening criterion is also below 50 dB  $L_{Aeq,16h}$ .
  - This Site aligns with the adopted criteria.

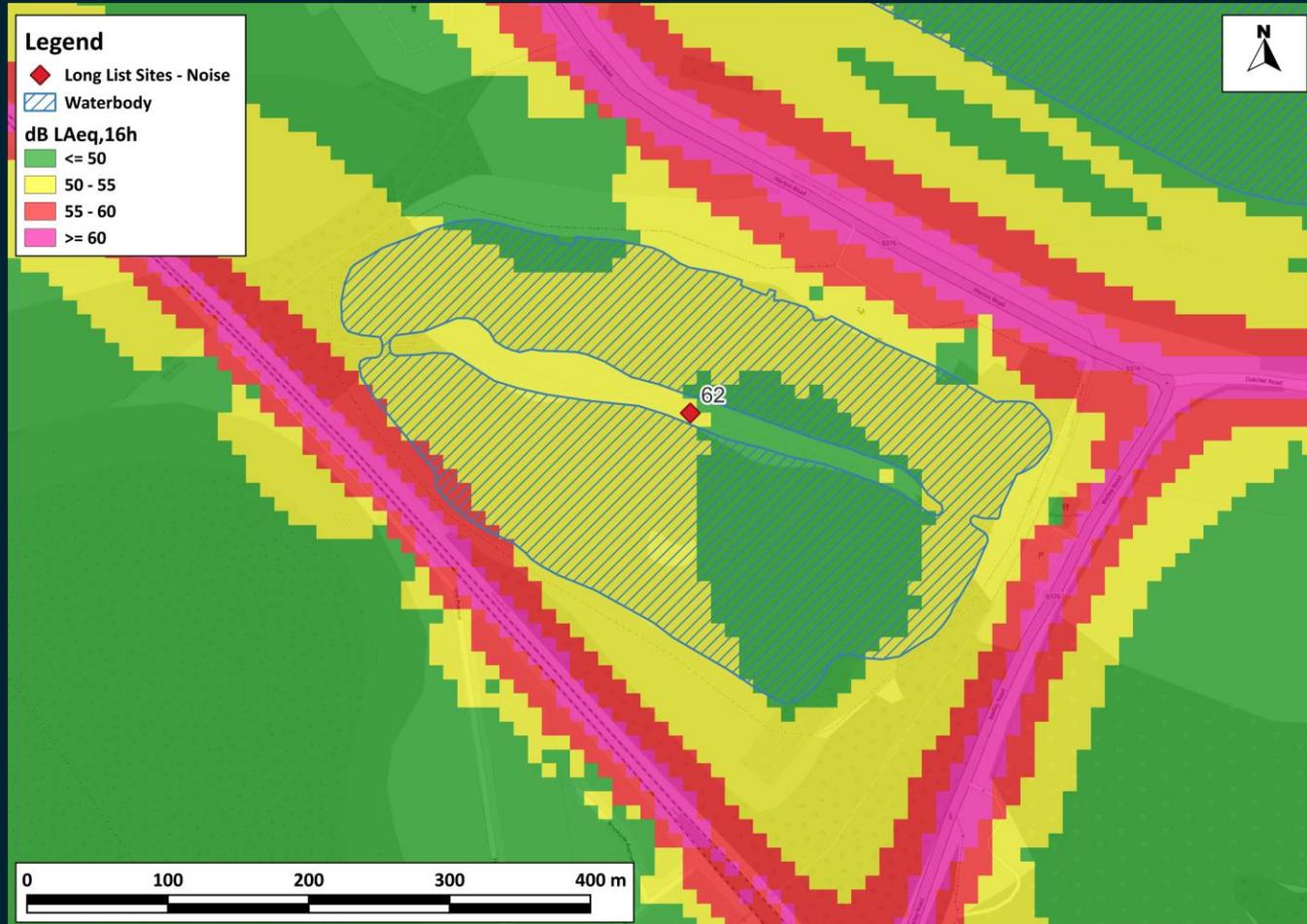
# Site – 61 (Brary Lake)



## Summary

- Round 4 Strategic Noise Maps indicate large area of Site 61 exceeds 55 dB  $L_{Aeq,16h}$ , there is no area below 50 dB  $L_{Aeq,16h}$ .
  - This Site does not align with the adopted criteria.

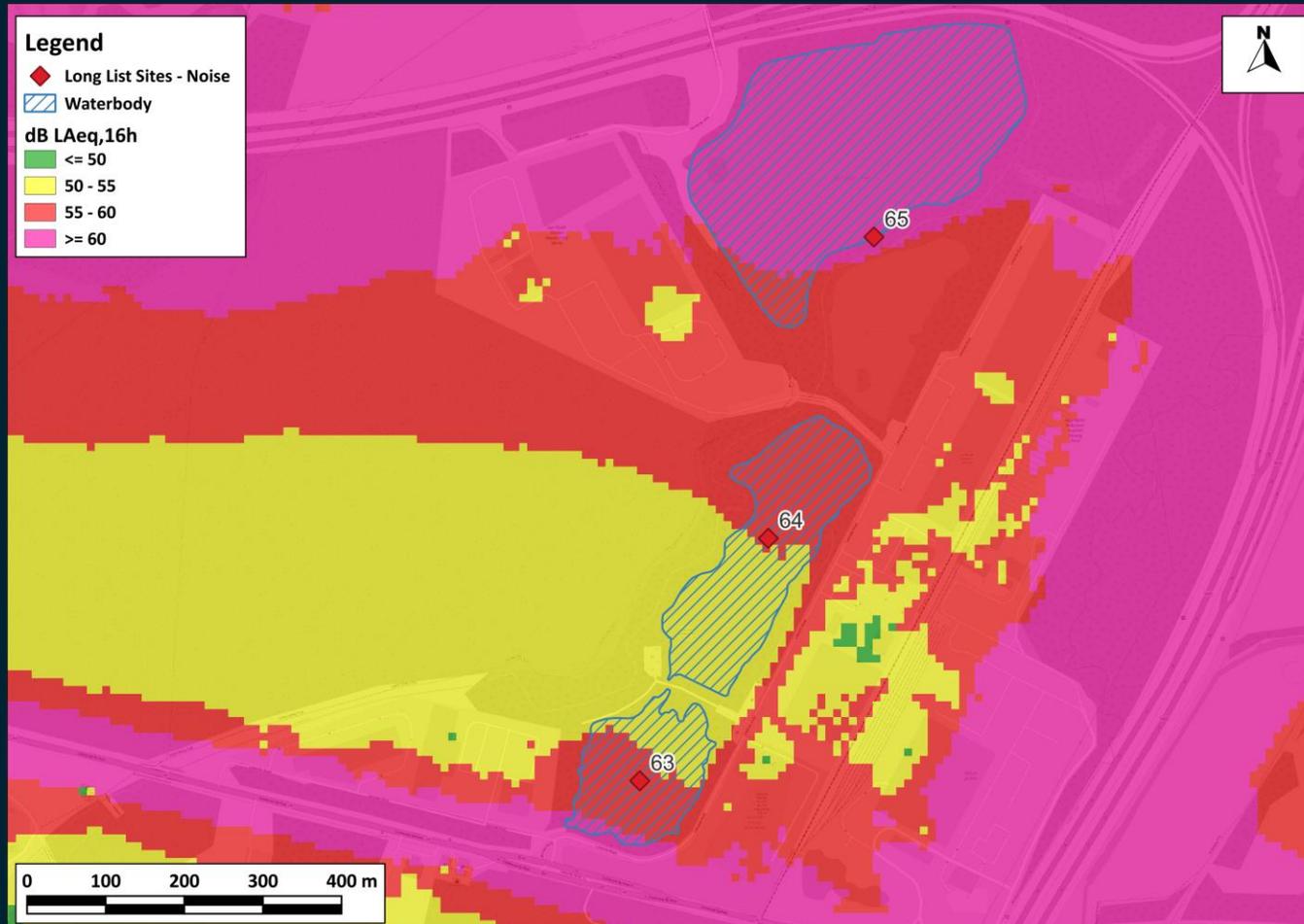
# Site – 62 (Liquid Leisure Wake Park)



## Summary

- Round 4 Strategic Noise Maps indicate no area of Site 62 exceeds 55 dB  $L_{Aeq,16h}$ , 33% of the area below the screening criterion is also below 50 dB  $L_{Aeq,16h}$ .
- However, following review of Heathrow 2023 noise contours air noise levels reach 63 dB  $L_{Aeq,16h}$  based on average modal split contours, 60 dB  $L_{Aeq,16h}$  during westerly operations.
- This Site does not align with the adopted criteria.

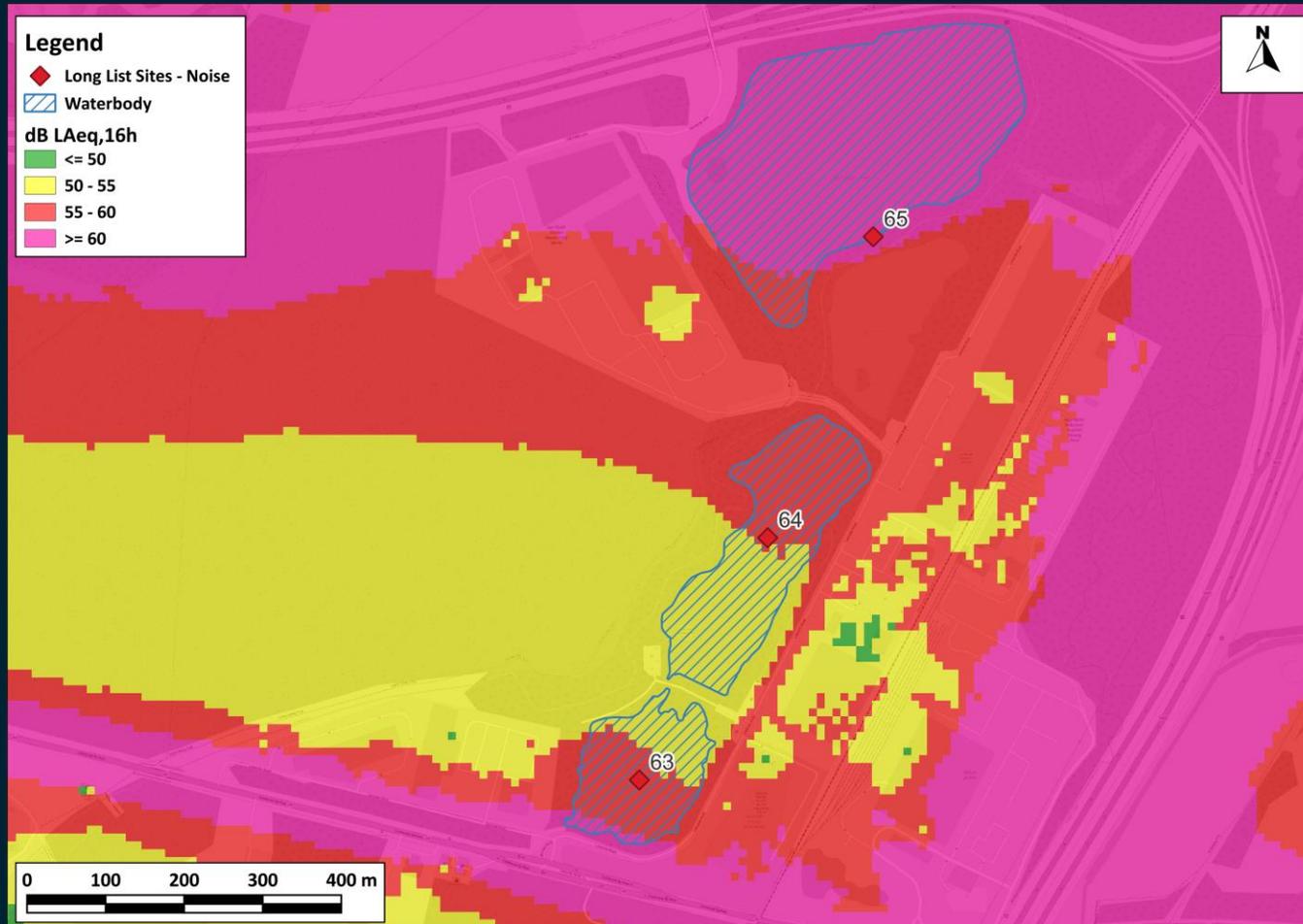
# Site – 63 – 65 (Colnbrook Water, Orlitts Lake, Old Slade lake)



## Summary

- Round 4 Strategic Noise Maps indicate a large area of Site 63 exceeds 55 dB  $L_{Aeq,16h}$ , there is no area below 50 dB  $L_{Aeq,16h}$ .
  - Following review of Heathrow 2023 noise contours air noise levels reach 60 dB  $L_{Aeq,16h}$  based on average modal split contours, 60 dB  $L_{Aeq,16h}$  during westerly operations.
  - **This Site does not align with the adopted criteria.**
- Round 4 Strategic Noise Maps indicate a large area of Site 64 exceeds 55 dB  $L_{Aeq,16h}$ , there is no area below 50 dB  $L_{Aeq,16h}$ .
  - Following review of Heathrow 2023 noise contours air noise levels reach 57 dB  $L_{Aeq,16h}$  based on average modal split contours, 60 dB  $L_{Aeq,16h}$  during westerly operations.
  - **This Site does not align with the adopted criteria.**

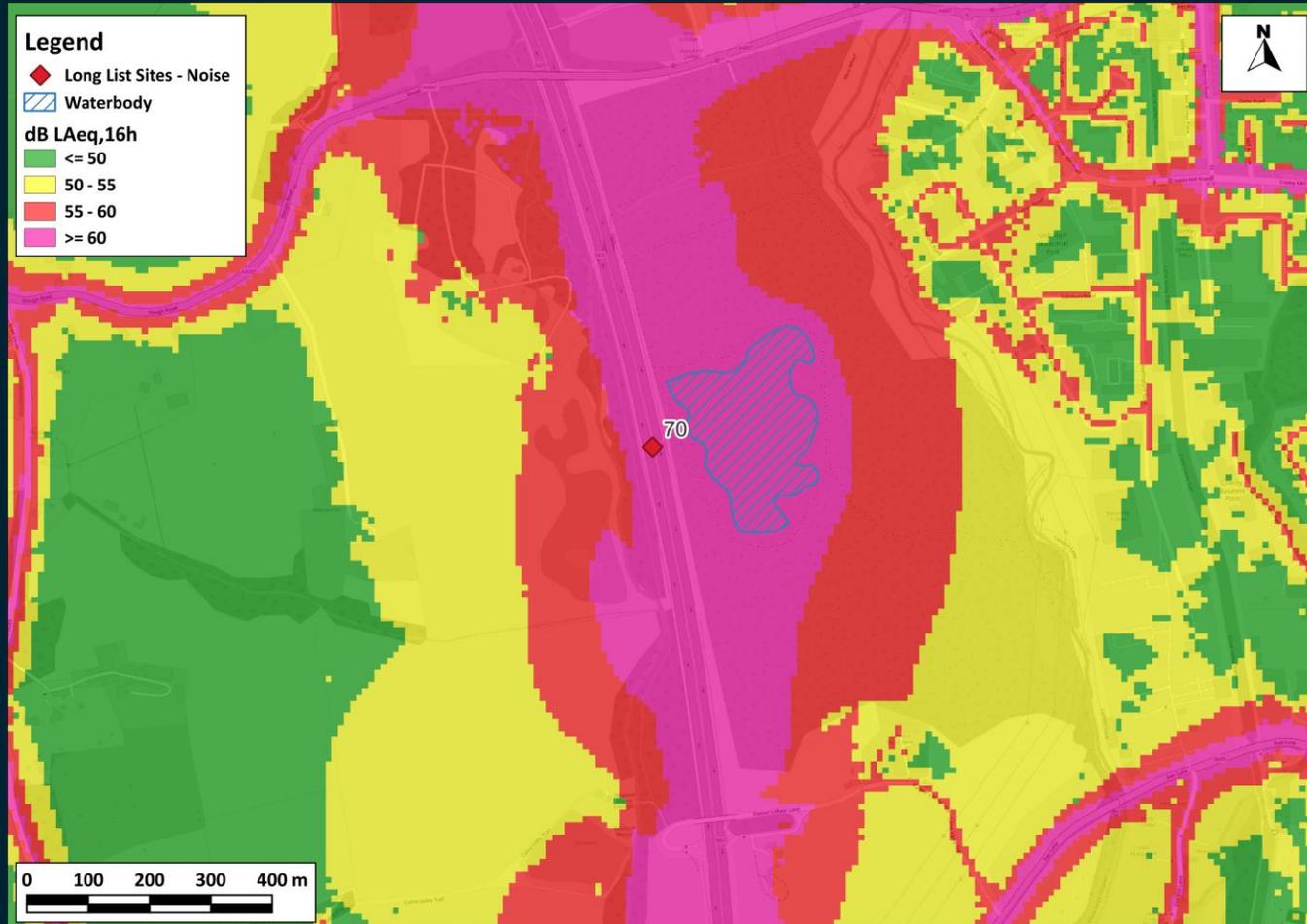
# Site – 63 – 65 (Colnbrook Water, Orlitts Lake, Old Slade Lake)



## Summary

- Round 4 Strategic Noise Maps indicate no area of Site 65 is below 55 dB  $L_{Aeq,16h}$ .
- This Site does not align with the adopted criteria.

# Site – 70 (???)



## Summary

- Round 4 Strategic Noise Maps indicate the entirety of Site 70 exceeds 55 dB  $L_{Aeq,16h}$ .
- This Site does not align with the adopted criteria.

# Summary

Site #	Name	Waterbody <55	Landside <50	Summary
	Broadwater Lake	Yes	Yes	Yes
29	Queen Mary Reservoir	Yes	Yes	Yes
30	Staines Reservoir	No	No	No
31	King George VI Reservoir	No	No	No
32	Wraysbury Reservoir	No	No	No
33	The Queen Mother Reservoir	No	No	No
34	???	Yes	Yes	Yes
35	Taplow Lake	Limited (6.7Ha)	No	No
36	Brent Reservoir	Yes	Limited Pockets	Constrained
37	Littleton Lake	Limited	V limited	No
38	The Gravel Pits	No	V limited	No
39	???	Yes	Limited Pockets to the north	Constrained
40	Penton Hook Marina	Yes	Yes	Yes
41	Abbey Lake	Limited	Limited Pockets to the north	Thorpe Park
42	Fleet Lake	Yes	Yes	Yes apart from Thorpe Park

# Summary

Site #	Name	Waterbody <55	Landside <50	Summary
43	Manor Lake	Yes	Yes	Yes apart from Thorpe Park
44	St Ann's Lake	Limited	No	Thorpe Park
45	Longside Lake	V Limited	No	No
46	River Ash	Limited (4.8ha)	Some to the west	Constrained
47	Thorpe Lea Fishery	No	No	No
48	Mead Lake	No	No	No + Waterbody only 6.4 Ha
49	???	No	No	No
50	Amber Lakes	No	No	No
51	???	No	No	No
52	Queensmead Lake	No	No	No
53	Kingsmead Quarry	No	No	No
54	Eastern Balancing Reservoir	Limited (4.9Ha)	No	No
55	Hilfield Park Reservoir	Yes	Limited Pockets to the north	Constrained
56	Aldenham Reservoir	Yes	Yes	Yes
61	Brary Lake	No	No	No

# Summary

Site #	Name	Waterbody <55	Landside <50	Summary
62	Liquid Leisure Wake Park	No	No	No
63	Colnbrook Water	No	No	No
64	Orlitts Lake	No	No	No
65	Old Slade Lake	No	No	No
70	???	No	No	No



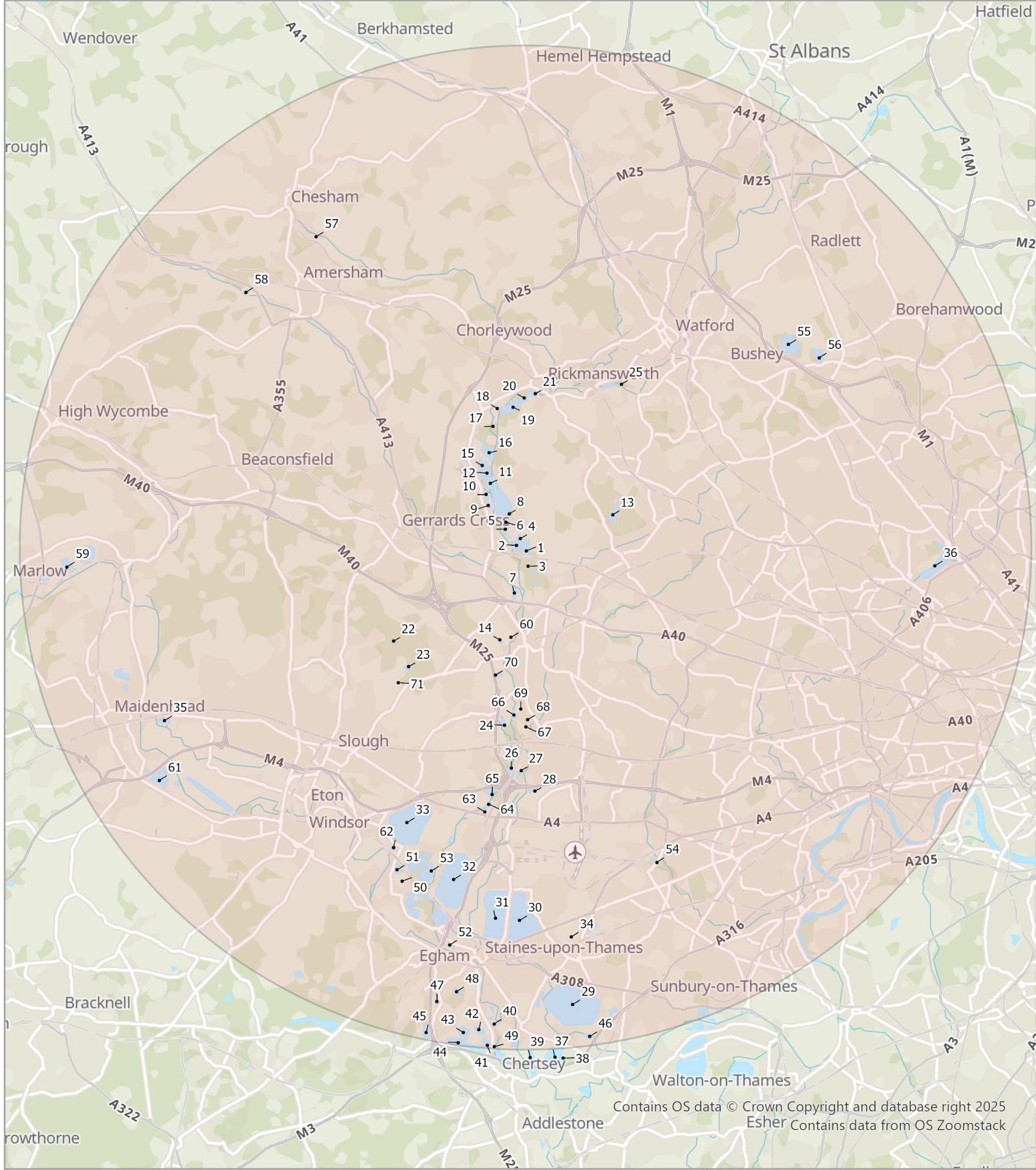
# Thank you

[www.logikaconsultants.co.uk](http://www.logikaconsultants.co.uk)

[www.noiseconsultants.co.uk](http://www.noiseconsultants.co.uk)

[www.aqconsultants.co.uk](http://www.aqconsultants.co.uk)

## Appendix 8 – Map of lakes within 20-kilometre search area



**Legend**

- Study Area
- Longlist Sites



Date: June 2025

Scale: 1:200,000 @ A4

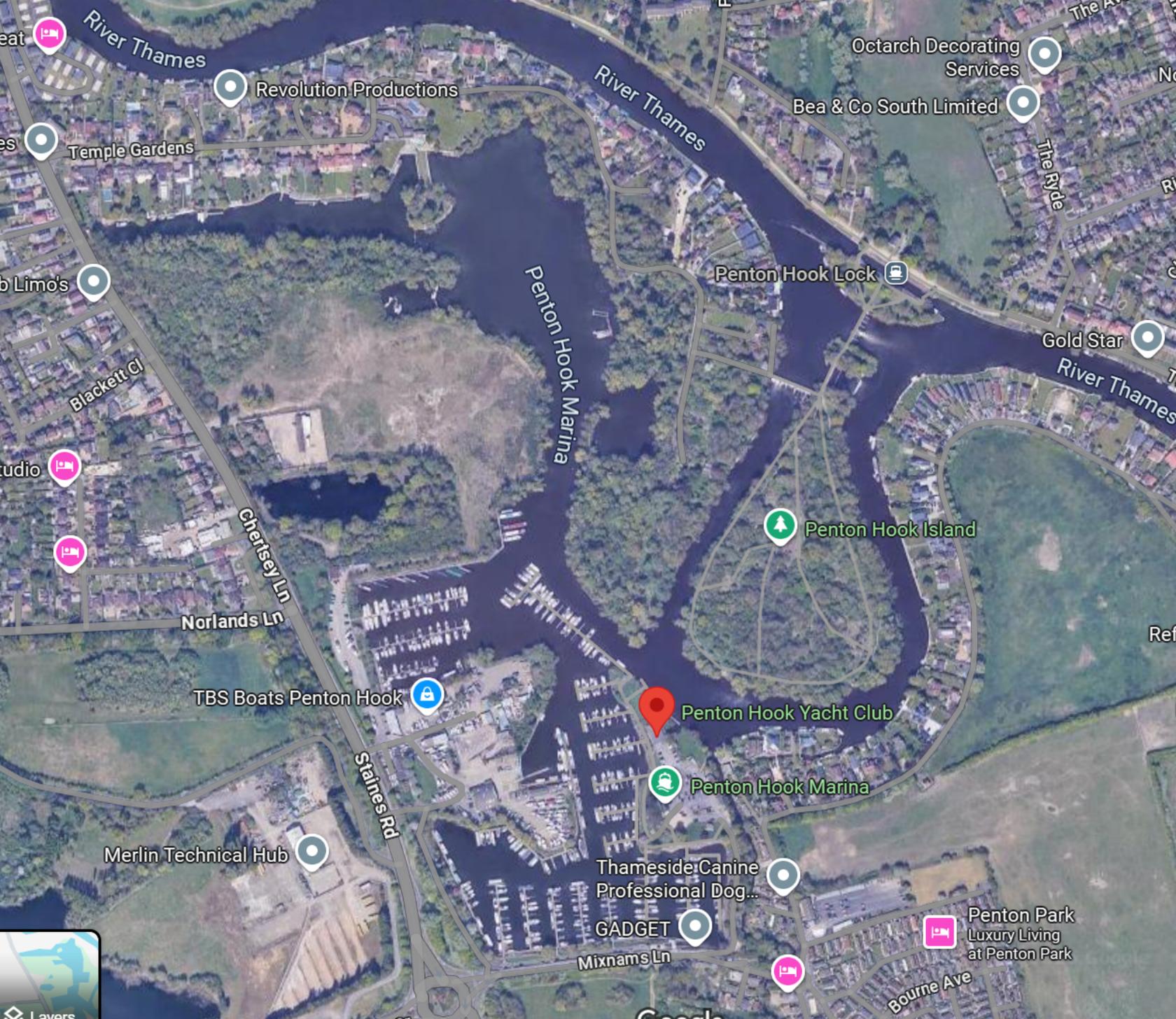


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**Longlist of Sites Location Map**

## Appendix 9 – Image of Penton Hook Marina



eat  
River Thames  
Revolution Productions  
Temple Gardens  
b Limo's  
Blackett Cl  
studio  
Chertsey Ln  
Norlands Ln  
TBS Boats Penton Hook  
Merlin Technical Hub  
Staines Rd  
Thameside Canine Professional Dog...  
GADGET  
Mixnam's Ln  
Bourne Ave  
Penton Park  
Luxury Living  
at Penton Park

Octarch Decorating Services  
Bea & Co South Limited  
The Pye  
Gold Star  
River Thames  
Penton Hook Lock  
Penton Hook Marina  
Penton Hook Island  
Penton Hook Yacht Club  
Penton Hook Marina

## Appendix 10 – Bathymetric Survey of Broadwater Lake