

Mrs Katherine Child
Barratt David Wilson Homes Southampton
Tollbar House
Tollbar Way
Hedge End
Southampton
SO30 2UH

Date: 29th October 2019
Reference: R8192-3 Rev 0

Dear Katherine

RE: Harbour Place- Noise Constraints

Further to our recent correspondence I am pleased to provide an indication of the likely noise constraints at Harbour Place in the form of a number of site plan maps which are provided overleaf.

As discussed you are currently constrained to a demolition and construction noise limit of 69 dB $L_{Amax,f}$ during the over-wintering period (nominally between October and March inclusive), although our recent surveys have indicated potential for these to be increased and we are of the opinion that a limit of 80 dB $L_{Amax,f}$ is easily justified. On this basis the constraints maps have been produced for both scenarios.

I have endeavoured to keep the maps simple- showing areas in which certain activities which are arguably controlled by the condition (mechanical operations) are likely to/ unlikely to cause exceedance of the limits above if undertaken during the over-wintering period. It is important to note that these maps are based upon noise propagation calculations which assume acoustic screening between your worksite and the mitigation area. This screening should eliminate line of sight and may comprise any material with a minimum surface area of 12 kg/m². This could include site hoardings/ close boarded fencing and building structures (but would not include trees).

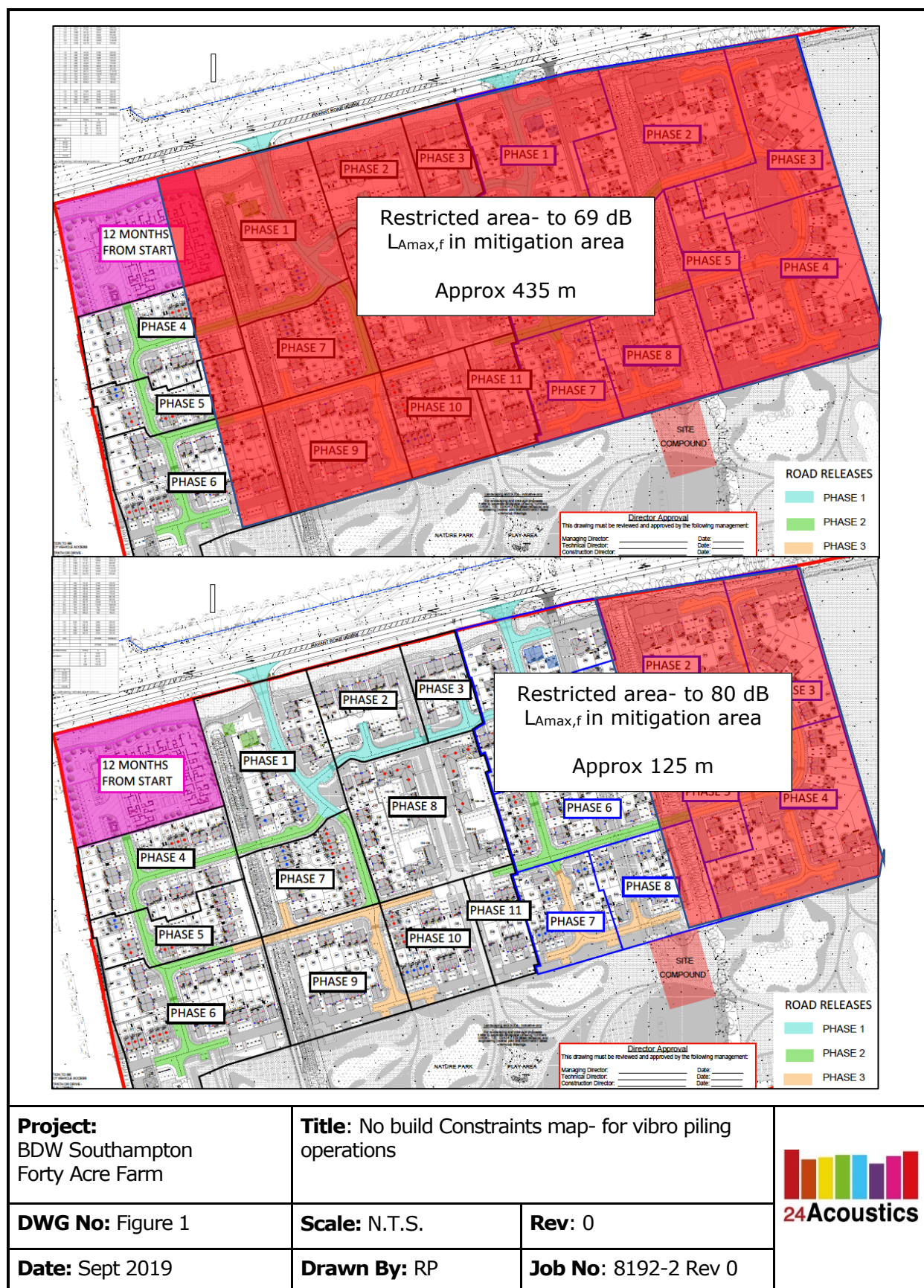
The calculations and maps indicate the following:

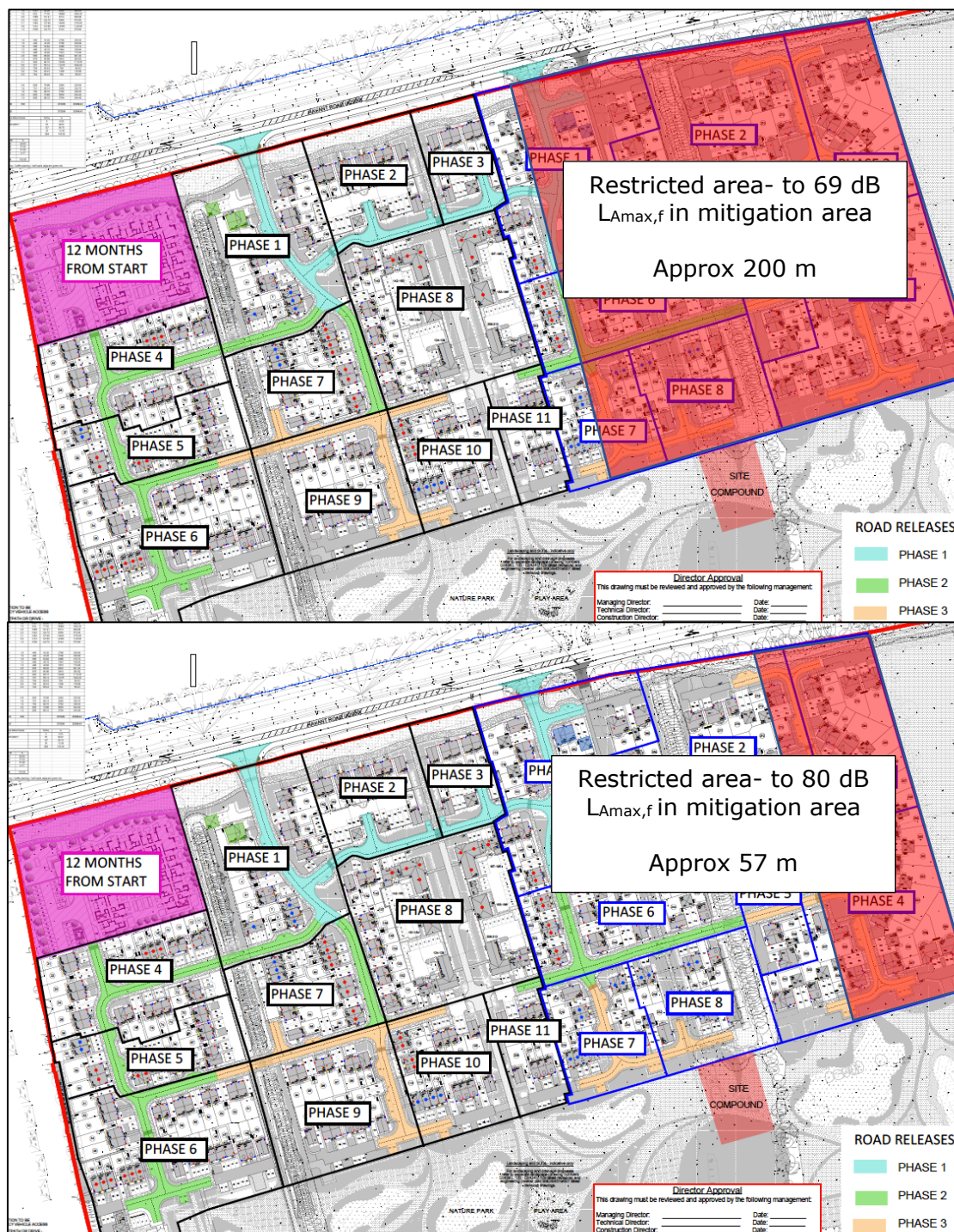
- There is a substantial difference in constrained area depending on the 69 and 80 dB $L_{Amax,f}$ noise limits. It is recommended that you take steps to increase the limit as far as practicable;
- Irrespective of the limit it is apparent that any works in Phases 3 and 4 will not be possible in the over-wintering period and should be planned to occur between April and September;
- We strongly recommend that augured piling is undertaken (as an alternative to vibro-piling) where feasible (and subject to the constraints shown in the maps).

I trust you will find the above satisfactory. Please do not hesitate to contact me to discuss further if needed.

Yours sincerely,
For 24 Acoustics Ltd

Reuben Peckham BEng MPhil CEng MIOA
Director & Principal Consultant





Project:
BDW Southampton
Forty Acre Farm

Title: Constraints map- for CFA piling operations

DWG No: Figure 2

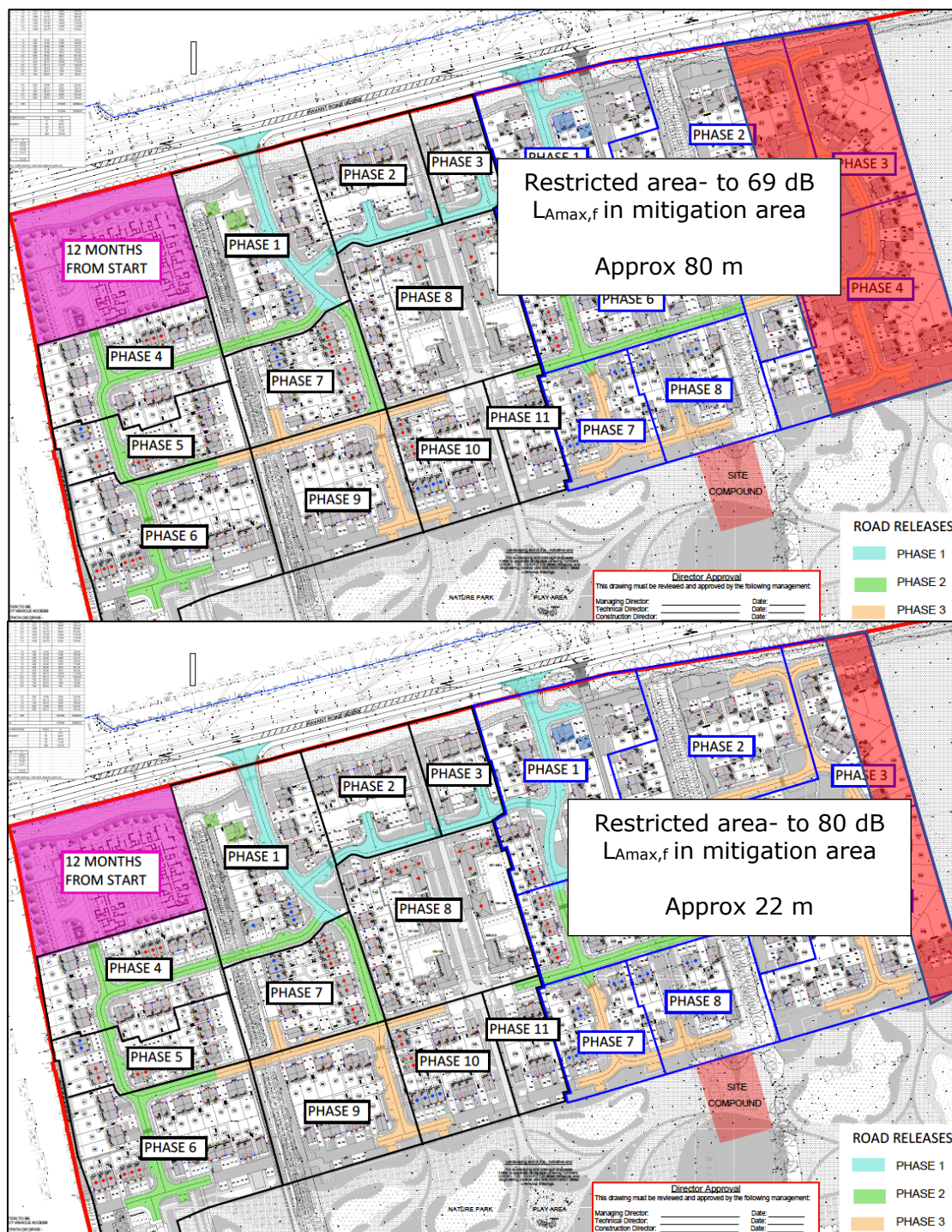
Scale: N.T.S.

Rev: 0

Date: Sept 2019

Drawn By: RP

Job No: 8192-2 Rev 0



Project:
BDW Southampton
Forty Acre Farm

Title: Constraints map- for earthworks operations

DWG No: Figure 3

Scale: N.T.S.

Rev: 0

Date: Sept 2019

Drawn By: RP

Job No: 8192-2 Rev 0