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20160147.3/0407A/R1/GW

04/07/2016

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ATTN: NORELLE JONES

Proposed Extended Construction Hours for Excavation Work at 888 Pittwater Road, Dee Why - Noise and Vibration Management Plan

1 INTRODUCTION

This report presents our noise and vibration management plan for the proposed extended hours (7am to 8am Monday to Saturday) of excavation activities at 888 Pittwater Road, Dee Why. The management plan is based on Noise and Vibration Impact Assessment report by this office with reference number 2016.147.3/1606A/R1/GW dated 16/06/2016.

2 SPECIFIC NOISE CONTROLS

- Use CFA or Bored Piling to mitigate vibration/noise impact onto the neighbouring structure.
- Hydraulic hammer should be carried out minimum 10m distance to northern boundary and minimum 20m distance to boundaries of Receiver 2 at 10 Oaks Ave & Receiver 3 at 23 Howard Ave between 7am and 8am Monday to Saturday.
- Vehicle Noise:

During excavation stage the primary entry and exit point will be via Howard Ave and Oaks Ave.

However, to minimise the impacts from vehicles on all receivers;

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- On site truck movements should not commence prior to 7:00am.
- Trucks must turn off their engines during idling to reduce impacts on adjacent residential receivers.
- Bobcat: no acoustic controls is required.
- All site supervisors and workers involved in the proposed extended hour's works will be specifically site inducted on noise controls through daily pre-starts and Tool Box meetings.

3 COMMUNITY INTERACTION AND COMPLAINTS HANDLING

3.1 ESTABLISHMENT OF DIRECT COMMUNICATION WITH AFFECTED PARTIES

In order for any construction noise management programme to work effectively, continuous communication is required between all parties, which may be potentially impacted upon, the builder and the regulatory authority. This establishes a dynamic response process which allows for the adjustment of control methods and criteria for the benefit of all parties.

The objective in undertaking a consultation processes is to:

- Inform and educate the groups about the project and the noise controls being implemented;
- Increase understanding of all acoustic issues related to the project and options available;
- Identify group concerns generated by the project, so that they can be addressed; and
- Ensure that complaint from concerned individuals or groups are lodged on a Site Complaints Register which will be used to address any construction noise related problems should they arise.

An additional step in this process is to issue nearby residents with a notice of upcoming activities that are likely to generate higher noise/vibration levels.

3.2 DEALING WITH COMPLAINTS

Should ongoing complaints of excessive noise and vibration occur, immediate measures shall be undertaken to investigate the complaint, the cause of the exceedances and identify the required changes to work practices. In the case of exceedances of the vibration limits, all work potentially producing vibration shall cease until the exceedance is investigated.

The effectiveness of any changes shall be verified before continuing. Documentation and training of site staff shall occur to ensure the practices that produced the exceedances are not repeated.

If a noise complaint is received the complaint should be recorded on a Noise Complaint Form. The complaint form should list:

- The name and address of the complainant (if provided);
- The time and date the complaint was received;
- The nature of the complaint and the time and date the noise was heard;
- The name of the employee who received the complaint;
- Actions taken to investigate the complaint, and a summary of the results of the investigation;
- Required remedial action, if required;
- Validation of the remedial action; and

- If necessary, setup vibration monitoring at the location representing the nearest affected vibration receiver, with alarm device which can inform the project manager on site if the vibration exceedance happened.
- Summary of feedback to the complainant.

A permanent register of complaints should be held.

All complaints received should be fully investigated and reported to management. The complainant should also be notified of the results and actions arising from the investigation.

The investigation of a complaint shall involve where applicable;

- noise measurements at the affected receiver;
- an investigation of the activities occurring at the time of the incident;
- inspection of the activity to determine whether any undue noise is being emitted by equipment; and
- Whether work practices were being carried out either within established guidelines or outside these guidelines.

Where an item of plant is found to be emitting excessive noise, the cause is to be rectified as soon as possible. Where work practices within established guidelines are found to result in excessive noise being generated then the guidelines should be modified so as to reduce noise emissions to acceptable levels. Where guidelines are not being followed, the additional training and counselling of employees should be carried out.

Measurement or other methods shall validate the results of any corrective actions arising from a complaint where applicable.

4 CONTINGENCY PLANS

Where non-compliances or noise complaints are raised the following methodology will be implemented.

1. Determine the offending plant/equipment/process
2. Locate the plant/equipment/process further away from the affected receiver(s) if possible.
3. Implement additional acoustic treatment in the form of localised barriers, silencers etc where practical.
4. Selecting alternative equipment/processes where practical
5. If necessary, setup noise/vibration monitoring devices at locations representing the nearest noise/vibration affected receivers and provide data for each complain time period. Analysis is required to determine suitable mitigation measures.

Complaints associated with noise /vibration generated by site activities shall be recorded on a Complaint Form. The person(s) responsible for complaint handling and contact details for receiving of complaints shall be established on site prior to construction works commencing. A sign shall be displayed at the site indicating the Site Manager to the general public and their contact telephone number.

5 VIBRATION CONTROL

5.1 SENSITIVE RECIEVERS

Nearest vibration receivers for the excavation of the project site are below:

- Residential Receiver 2: 10 Oaks Avenue, bounding the property to the west
- Residential Receiver 3: 23 Howard Avenue, bounding the property to the east.

5.2 VIBRATION PRODUCING ACTIVITIES

Proposed activities that have the potential to produce significant ground vibration include:

- Piling and anchoring.
- Hydraulic hammering.
- Excavator working.

5.3 VIBRATION GENERATED BY PROJECT SITE

This office has been advised that the piling and excavation is in sand therefore the vibration generated by project site is unlikely result exceedance of project criteria.

7 CONCLUSION

The noise and vibration management plan for the proposed extended hours (7am to 8am Monday to Saturday) of excavation activities at 888 Pittwater Road, Dee Why has been worked out. Adoption of the elements of these controls will ensure that noise impacts will be minimised.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

A handwritten signature in black ink, appearing to read "George Wei", is centered on a light gray rectangular background.

Acoustic Logic Consultancy Pty Ltd
George Wei

Senior Acoustic Engineer