

**STANDARD OPERATING PROCEDURE  
SP08  
NOISE AND VIBRATION**

<b>ENVIRONMENTAL RISK ACTION PLAN</b>	
<b>Noise and Vibration</b>	
Objective	<ul style="list-style-type: none"> <li>To comply with contractual requirements and ensure that noise and vibration from construction activities does not cause environmental nuisance.</li> </ul>
Legal, Contractual & Other Requirements	<p>Audible construction works unless otherwise approved by the Client's Representative shall be restricted to:</p> <ul style="list-style-type: none"> <li>7.00 am to 6.00 pm Monday to Friday</li> <li>8:00 am to 3:00 pm Saturdays</li> </ul> <p>Construction activities that are inaudible external to the site may be undertaken outside of these hours where approved by the Client's Representative.</p> <ul style="list-style-type: none"> <li>Contract Environmental Management requirements</li> <li>Local Council Development Consent conditions</li> <li>See 3.2 Legal Requirements in EMS</li> </ul>
Targets	<ul style="list-style-type: none"> <li>No valid noise/ vibration complaints resulting from construction works.</li> <li>No unreasonable noise or vibration.</li> <li>No noise and vibration impacts on residents / tenants / neighbours etc</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>Site Supervisor to ensure construction activities, both Proline and Subcontractor's implement the control measures.</li> <li>Site Supervisor will obtain permission via the Project Manager to work outside approved hours</li> </ul>
Controls (means & resources)	<ul style="list-style-type: none"> <li>Where work outside the hours nominated above hours is required, approval shall be gained from the Client's Representative prior to the commencement of works.</li> <li>Advise the adjacent residents / tenants / neighbours of impending operations likely to cause a noise or vibration nuisance.</li> <li>Site offices, compounds and sheds will be located so as to have no negative impact on the noise amenity of nearby sensitive receptors.</li> <li>Delivery operations or other noise generating activities at compound and storage areas will take place during the designated construction hours nominated above, unless specifically required by Police or RTA requirements.</li> <li>Where practical substitution of excessively noise processes with alternative processes.</li> <li>Avoiding where practical the use of noisy plant simultaneously close together or adjacent to school facilities or other sensitive receptors.</li> <li>High efficiency mufflers must be fitted to all plant and equipment to minimise the generation of noise.</li> <li>All plant will be maintained in accordance with the manufacturer's requirements.</li> <li>Orientating noise generating equipment away from sensitive areas</li> <li>Carrying out noise generating processes where applicable at a maximum</li> </ul>

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	<p>distance from current facilities.</p> <ul style="list-style-type: none"> <li>• Undertaking loading and unloading activities away from sensitive areas and during designated construction hours.</li> <li>• Select the most appropriate plant and equipment to minimise noise generation and include where possible screening and enclosures.</li> <li>• Preference will be given while selecting plant and equipment for construction works to those which minimise noise/ vibration emissions. Many items of plant are available in “silenced” versions and should be used in areas closest to nearby residents.</li> <li>• On-site generators and auxiliary power sources used during construction should be positioned away from existing buildings to buffer noise/ vibration. If noise/vibration is directional, orient equipment away from current facilities to minimise impact.</li> <li>• Regular checks are to be undertaken to ensure all equipment and vehicles are in good working order and are operated correctly. Checking should include:               <ul style="list-style-type: none"> <li>• engine covers;</li> <li>• defective silencing equipment;</li> <li>• rattling components; and</li> <li>• leakages in compressed air lines.</li> </ul> </li> <li>• Where complaints relating to construction vibration are received, additional monitoring will be undertaken to verify compliance with the specified criteria. The acceptable vibration limit shall be reviewed and amended where required if vibration is within the specified requirements.</li> <li>• Awareness training and information will be provided to project personnel in relation to the vibration limits on the project and the need to minimise vibration during the works via toolbox talks.</li> <li>• Plant, equipment and processes shall be selected so as to limit construction related vibration.</li> <li>• Restrict or modify working hours to minimise impact if required. Include periods of respite where possible when vibration generating activities are being undertaken.</li> </ul>
Timeframe	<ul style="list-style-type: none"> <li>• Duration of site works.</li> </ul>
Monitoring & Reporting	<ul style="list-style-type: none"> <li>• Daily inspections to be recorded on the Daily Site Safety Checklist Doc No: OHS013.14</li> <li>• Complaints to be recorded on form Environmental Incident and Complaint Report ENV026.</li> <li>• A register Incident / Accident Register Doc No: OHS052 will be maintained for all incidents or complaints.</li> <li>• Any noise monitoring undertaken as a corrective action will be recorded by the Systems Manager.</li> <li>• Daily inspection (pre-start) checks logbooks and regular servicing of equipment.</li> <li>• Monthly project status briefs to be provided to the clients representative and stakeholders if required under the contract.</li> </ul>

**Version Control**

<b>Date</b>	<b>Version</b>	<b>Owner</b>	<b>Comments</b>
29.03.11	1	Michelle Murphy	For Issue
23.12.13	2	Michelle Murphy	Management Review
18.05.15	3	Michelle Murphy	Management Review
20.08.18	5	Michelle Murphy	ISO Accreditation Review
09.09.19	6	Michelle Murphy	Management Review
03.02.22	7	Michelle Murphy	Management Review
13.12.24	8	Michelle Murphy	Management Review