



Rethinking safety through
INCLUSION
+
WELLBEING

HEALTH + SAFETY

PRIMARY STANDARD

30/03/2026

PILING

PURPOSE AND SCOPE

The Primary Standard details the FSR controls and minimum requirements to eliminate or minimise risks from piling operations at Laing O'Rourke workplaces as well as eliminating or minimising the risks of significant environmental harm.

This document is Mandatory and must be achieved across all Laing O'Rourke Workplaces. Where alternative controls are implemented, these must be approved through the FSR/HSEMS Requirement Dispensation process.

1.0 FSR CONTROLS

- Identify falls and dropped object risks associated with piling during Safety in Design, constructability assessments, and work planning, and implement controls to eliminate or engineer out these risks.
- Piling operators and crew members hold the required national or industry competency and applicable high risk work licences for the equipment and tasks being undertaken.
- Verify that all piling rigs meet Laing O'Rourke's minimum plant and equipment standards, are approved for site use, and display a valid Pile Safe sticker prior to operation.
- Obtain a Permit to Load before setting up and commencing piling operations.
- Before loading any vessel for piling or marine works, obtain a Permit to Load from the Temporary Works Coordinator, supported by a verified stability assessment from an accredited marine surveyor.
- Before using a piling rig to conduct lifting activities, it must have a lift plan and be approved to lift/suspend loads.
- Protect pile holes not in use with temporary works approved covers and physical barriers, or secure fencing to prevent risk of falling.
- An exclusion zone is established for the auger and slew zone using physical barriers and signage.

2.0 ENVIRONMENTAL SER CONTROLS

- Lime is stored correctly in an appropriate container to prevent mobilisation of lime into waterways or dust generation.
- Hook lift bins or suitable equivalent are used to retain pile spoil and monitored frequently to assess capacity and identify potential over filling. Contamination of the piling pad is to be prevented at all times.
- Acid Sulfate Treatment Areas are located outside of flood prone areas, more than 50m from waterways and in line with the Construction Acid Sulfate Materials Management Plan.
- Acid Sulphate Treatment Areas are maintained and monitored effectively to ensure no breaches of the treatment area, unauthorised Acid Sulphate Material, sediment or acidic runoff is discharged to waterways.
- Polymer products used in piling works are prevented from entering waterways and disposed of correctly to prevent impacts on surrounding environment.
- Biodegradable oil use is to be used for works over waterways.
- Hydraulic hoses are reviewed/inspected for wear and damage prior to the commencement of works. Damaged hoses are replaced. Sheathing is provided for exposed hydraulic and fuel lines.
- Spill Kits are located close to the piling works and maintained to ensure they are fully stocked.
- Hydrocarbon absorbent booms are provided in the waterway to prevent the spread of spills.



3.0 REQUIREMENTS

- The work environment, temporary works and risks associated with specific types of plant are to be considered when selecting an item of plant for a task or work area.
- When plant pertaining to piling operations arrives on site a competent member of staff (named within the health and safety plan) must inspect and complete the appropriate premobilisation checklist(s).
- Obtain copies of required documentation:
 - Plant Risk Assessment specific to item of plant
 - Log books specific to the needs and OEM manual of the type of plant
 - Service and maintenance records.
- Plant must be registered on the Plant and Equipment Register.
- Working Platform Certificate (WPC) is in place prior to work commences. The WPC ensures that the piling platform is designed by a competent person.
- Regular inspections are completed and recorded on a Temporary Works Control Register determined by the appointed Temporary Works Coordinator.
- A Crane Lift Plan is in place approved by the Appointed Person where applicable.
- Current permit to manage excavations in place, services identified, and available for review.
- A rescue plan and resources are in place, applicable for work activity. Safe access is in place to work at heights areas.
- Work at height is managed in accordance with **System Requirement Risk Assessment and Safety in Design (SiD)**.
- Persons involved in the activity are trained and competent.
- A Safe Work Method Statement (SWMS) is in place for the activity.

4.0 ENVIRONMENTAL REQUIREMENTS

- A method statement is developed for piling activities and includes site specific environmental risks and control measures.
- All site personnel have received training in the site environmental requirements associated with the piling works.



5.0 ROLES AND RESPONSIBILITIES

Table 1 Piling roles and responsibilities

ROLE	RESPONSIBILITIES
PROJECT LEADER/ WORKPLACE MANAGER	<ul style="list-style-type: none"> • Appoint Temporary Works Coordinators to manage design of piling mats and any other additional risks associated with penetrations. • Appoint permit authorities and issuers to manage excavation permits and work at height where appropriate in accordance with Primary Standard Permit to Work. • Appoint an Appointed Person with appropriate competency in writing using the template from the Lifting Operations Plan. • Appoint a suitably Qualified Person to undertake plan pre-mobilisation checks. • Undertake FSR reviews for excavation, utilities and services, plant and equipment, cranes and lifting, working at heights, general electrical safety, and work on, over or adjacent to water.
SUPERVISOR	<ul style="list-style-type: none"> • Ensure copies of the excavation permits are kept at the workplace. • Ensure work is stopped if circumstances require a change to work method, sequence or equipment, and has the risks re-assessed and method statement amended and re-approved as necessary. • Ensure only operators that are assessed as competent operate plant with a valid verification of competency (VOC). • Monitor the implementation of this Primary Standard within the workplace.
TEMPORARY WORKS COORDINATOR	<ul style="list-style-type: none"> • Ensure piling operations are entered onto the Temporary Works Register. • Ensure that all ground penetration works are properly planned and managed including the interface with adjacent operations. • Issue a WPC to the piling contractor. • Obtain and maintains current underground essential services information pertaining to penetrations.
APPOINTED PERSON	<ul style="list-style-type: none"> • Holds one of the following relevant competencies: <ul style="list-style-type: none"> – Crane Supervisor and Appointed Person (Lifting Operations – CTI Course) – National Plant Operators Registration Scheme (NPORS) – Equivalent qualification verified by Laing O'Rourke. • Ensure the lifting operations plan Appoint a suitably competent person as a Crane Supervisor for the piling operations using the template proforma in the Lifting Operations Plan. • Monitoring/checking Crane Supervisor responsibilities in the field. • Ensure crane operators and persons responsible for controlling load movements are trained in the schedule of common lifts.
CRANE SUPERVISOR	<ul style="list-style-type: none"> • Ensure lifting activities are carried out in accordance with the Lifting Operations Plan. • Must be a Competent Person in crane operations and hold one of the following qualifications: <ul style="list-style-type: none"> – A National Licence to Perform High-Risk Work for Crane Operation Class C6 or above – A Crane Supervisor qualification issued by Crane Supervisor and Appointed Person (Lifting Operations – CTI Course) or NPORS or equivalent qualification verified by Laing O'Rourke – A National Licence to Perform High-Risk Work Class Intermediate Rigging (RI) or above.
COMPETENT AND QUALIFIED PERSONS	<ul style="list-style-type: none"> • Competent Person is someone who has acquired through training, qualification or experience the knowledge and skills to carry out a task. • Qualified Person is someone who holds a National Licence to Perform High-Risk Work to undertake scheduled work as required by the relevant regulatory authority, and has had their competency verified via the application of a VOC assessment process.



6.0 REGULATIONS, CODES AND STANDARDS

Key Regulations, Codes of Practice and Guidelines are as follows:

- Work Health and Safety Regulation 2011 (QLD, ACT), 2012 (SA) and 2017 (NSW, NT)
 - Part 3.1 Managing Risk to health and safety (regs 32–38)
 - Part 6.3 PCBU
 - Division 2 High-Risk Construction Work – SWMS (regs 299–302)
 - Work Health and Safety (General) Regulation 2022 (WA) Part 3.1 Managing Risk to health and safety, Part 6.3 PCBU, Division 2 High-Risk Construction Work – SWMS
- Occupational Health and Safety Regulations 2017 (VIC)
 - Division 2 Control of Risk
- Codes of Practice
 - VIC: Industry Standard – Piling Work and Foundation Engineering Sites.

7.0 PLANS, FORMS AND TEMPLATES

For relevant plans, forms and templates see the Laing O'Rourke HSEMS at www.lorhsems.com.