

POSITION DESCRIPTION

1. POSITION DETAILS

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| Position Title | Dam Surveillance Engineer |
| Business or Service Unit | Asset Solutions & Delivery |
| Position Manager | Dam Surveillance Team Leader |
| Position Location | Negotiable |

2. POSITION PURPOSE

Provide specialist dam safety advice through the development and implementation of dam surveillance programs and other dam safety related compliance activities, to meet business, regulatory and statutory requirements; and put safety first.

3. KEY ACCOUNTABILITIES

- (1) Ensure all activities are undertaken with the safety of people as the number one priority and at all times role model safe behaviour.
- (2) Ensure that dam safety management practices are optimised using risk based framework to provide highest level of safety that can be reasonably achieved at least cost.
- (3) Establish requirements for dam safety; plan and implement dam safety programs to ensure that statutory dam safety requirements for WaterNSW's dams portfolio are appropriately met in a timely manner.
- (4) Undertake dam surveillance activities to ensure the effective management of dam safety and operational risks including: visual inspections, reviews of monitoring data, analysis and interpretation of measurements and readings, evaluation of dam condition, performance and risk and reporting on the safety status of the dams.
- (5) Evaluate the safety status and performance of dams.
- (6) Identify and initiate in-depth evaluation of dam safety risks arising from surveillance activities.
- (7) Support the development and maintenance of portfolio risk profiles; contribute to the development of risk management strategies. Assess dam safety compliance and monitor risk profiles.
- (8) Plan for and manage dam safety issues, responses and emergencies, together with other subject matter experts, as may be required from time to time. Prepare for emergencies.
- (9) Oversee development of technical guidelines and methodologies for implementation in the dam safety program including identification of dam safety incident and notification alarms.

4. SIGNIFICANT EXTERNAL RELATIONSHIPS FOR WHICH THIS POSITION IS THE PRIMARY CONTACT

5. AUTHORITY LIMITS

- As per *Standing Delegations* instrument from time to time.

6. MANDATORY KNOWLEDGE AND QUALIFICATION REQUIREMENTS

- Degree in Civil Engineering or related discipline.
- Current NSW driver's licence.
- Experience in the safety evaluation of existing dams
- Extensive knowledge of principles and practices of dam and weir design, construction, operation, safety surveillance and maintenance.

7. MANDATORY EXPERIENCE AND CAPABILITY (PROVEN AND DEMONSTRATED)

- 5+ years of experience in dams engineering.
- Experience in the safety evaluation of existing dams.
- Experience in dam design, construction, operation and maintenance.
- Detailed knowledge of relevant Australian and International codes and standards.
- Proven technical engineering skill and knowledge of dam safety policy and regulatory requirements combined with site experience.
- Excellent written and oral communication skills to communicate internally and to technical professionals, client groups, regulators and the public, including reports, addressing forums and providing and interpreting technical information.
- Highly developed analytical and problem solving skills, ability to analyse and interpret data and information and make sound judgements.

8. EXPERIENCE THAT WILL BE VIEWED FAVOURABLY BUT IS NOT MANDATORY

- Experience in the safety evaluation and visual inspection of existing dams.
- Experience in dam and weir design, construction, operation and maintenance.
- Experience in comprehensive risk assessments.

9. KEY CHALLENGES

- Ability to work within a small team to produce high quality and cost-effective results to tight deadlines
- Continually keeping up to date with contemporary trends in Dam Safety in Australia and internationally, including particular knowledge of dam safety surveillance trends, standards, innovations and technologies.