WaterVal®
Streamlining Technology Validation

EXAMPLE TEMPLATE ONLY

Contact WaterRA for the template file

[Type treatment process name]

[Select Chemical OR Pathogen] validation protocol

Water Research AUSTRALIA

[Type treatment process name]

[Select Chemical OR Pathogen] validation protocol

PREPARED BY

[Type name here]
[Type organisation name here]

[Type name here]
[Type organisation name here]

[Type name here]
[Type organisation name here]

SPONSORED BY

[Type name here]
[Type organisation name here]

WATERRA RESEARCH MANAGER

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YEAR OF PUBLICATION

2026

Water Research AUSTRALIA

About WaterRA

Water Research Australia is the leading independent, member-driven hub that turns collaboration into impact—advancing research, translating insights, and building capability across Australia's water sector. Our purpose is simple: help our members solve the sector's most pressing challenges—together. We do this in ways that are simple, effective, and deliver great value research outcomes for our members and the communities they serve. Founded in the CRC for Water Quality & Treatment in 1995, we've maintained an unbroken focus on member-based research and measurable impact, turning collective intent into shared solutions for a resilient, safe, and sustainable water future.

For more information visit www.waterra.com.au

About WaterVal™

WaterVal™ is a research-backed framework that provides a consistent, scientifically robust approach to confirming that water treatment systems can effectively remove contaminants. It is a collaborative effort between key stakeholders in the water industry to gain clarity on the requirements for the design and operation of treatment technologies to streamline the validation process. WaterVal™ is underpinned by Validation Protocols, which are independently developed and agreed methodologies to assess contaminant removal. Each Validation Protocol is based on nine Protocol Elements, ensuring consistency and uniformity for users.

For more information visit www.waterra.com.au/waterval

[Type treatment process name]

[Select Chemical OR Pathogen] validation protocol

ISBN: XXXX Project number: [Type project number]

Citation

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Glossary

Term	Description
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Abbreviations

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Introduction

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ELEMENT 1

Identify the mechanisms of contaminant removal by the treatment process unit.

[Type here]

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ELEMENT 2

Identify the target contaminants, or appropriate surrogates, that are the subject of the validation study. Ensure that the target contaminants/surrogates are present at an appropriate concentration.

[Type here]

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ELEMENT 3

Identify the influencing factors that affect the efficacy of the treatment process unit to reduce the target contaminant.

[Type here]

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ELEMENT 4

Identify the operational monitoring parameters that can be measured continually (ideally) and that will relate with the reduction of the target contaminant or class of contaminants.

[Type here]

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ELEMENT 5

Identify a validation methodology to demonstrate the capability of the treatment process unit

[Type here]

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ELEMENT 6

Describe a method to collect and analyse data to formulate evidence-based conclusions.

[Type here]

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ELEMENT 7

Describe a method to determine the critical limits as well as an operational monitoring and control strategy.

[Type here]

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ELEMENT 8

Describe a method to determine the LRV for each contaminant group or class in each specific treatment process unit performing within defined critical limits.

[Type here]

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ELEMENT 9

Provide a means for re-validation or additional onsite validation where proposed modifications are inconsistent with the previous validation test conditions.

[Type here]

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References

[Insert references]

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Appendix

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