

1. Purpose

The purpose of this Project / Construction Environmental Management Plan (P/CEMP) is to provide assurance for the protection of the environment from construction activities or other projects that are proposed on ANSTO property or on behalf of ANSTO that may have a direct impact on the environment.

The project team must meet the minimum environmental protection standards stated in [AP-5400 Project Environmental Protection Requirements](#) (hereafter referred to as The Requirements) and the ANSTO Building Code.

This P/CEMP extends to contractors, sub-contractors and procurement practices.

2. When do I need a P/CEMP?

All decommissioning projects and other projects that may have a possible direct impact on the environment and have a project budget >\$250,000 shall require a P/CEMP to be developed.




Where an external Principal Contractor is being engaged and they will prepare their own P/CEMP, **Appendix A** and **B** of this P/CEMP do not need to be completed, however they will be required to prepare a detailed P/CEMP that meets the minimum standard of [The Requirements](#) and the ANSTO Building Code, and insert an approved copy into **Section 3** of this P/CEMP.

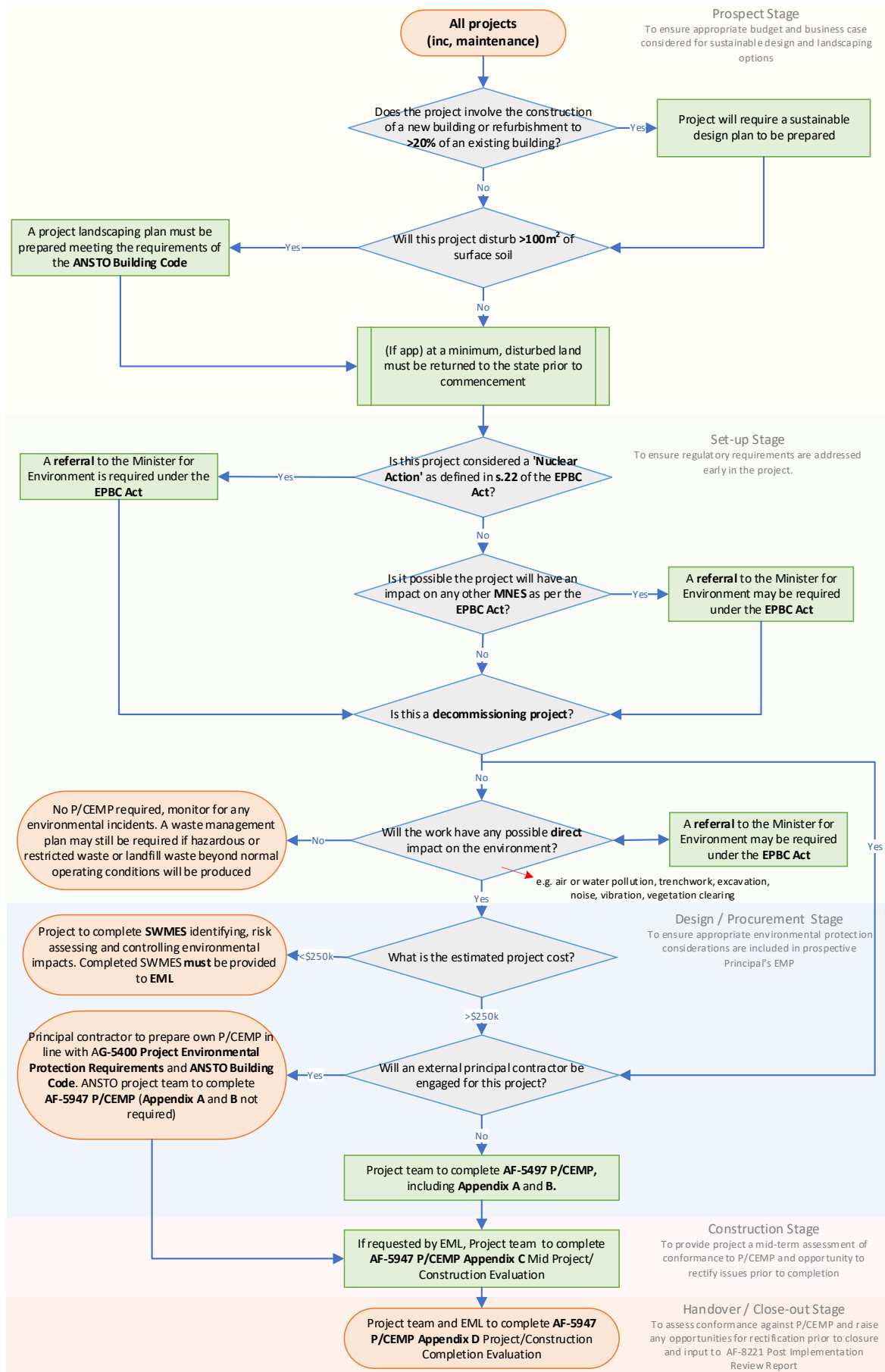
Where ANSTO is the Principal, **Appendix A** and **B** of this P/CEMP must be completed.

Appendix C and **D** are assurance checks to ensure the Project is conforming with the [The Requirements](#), the ANSTO Building Code and other commitments stated in the P/CEMP. Results from these assurance checks should be used by the Project Team to inform the project evaluation required using [AF-1681 Contractor Performance Review Form](#). **Appendix C** should be completed by the Project Team (if requested by the Environmental Management Leader). Completion of **Appendix D** is mandatory for all projects and must be completed in consultation with the Environmental Management Leader prior to the handover of the site from the Principal Contractor.

Refer to flowchart on next page for further guidance.

REQUIRED RESPONSE – Indicate the project cost and Principal for the project.

<input type="checkbox"/> Decommissioning project & external Principal engaged		Please provide the Principal's draft P/CEMP in section 3 . DO NOT complete Appendix A or B .
<input type="checkbox"/> Non-decommissioning project & external Principal engaged		
<input type="checkbox"/> Decommissioning project & ANSTO Principal		Complete both Appendix A and B of this P/CEMP
<input type="checkbox"/> Non-decommissioning project, ANSTO Principal & project cost >\$250k		
<input type="checkbox"/> Non-decommissioning project, ANSTO Principal & project cost <\$250k		Complete a SWMES and send to Environmental Management Leader . The Requirements shall be referenced for implementation of environmental protection controls



3. External Principal Contractor's P/CEMP

If a P/CEMP is being prepared by the external Principal Contractor, please insert the draft version of the P/CEMP into the box below. The draft P/CEMP must be approved by the Environmental Management Leader prior to commencement of works.

Any change in scope to the Principal's P/CEMP must be approved by the Environmental Management Leader.

(Select a space in the box below -> go to the 'Insert' tab on the ribbon -> select 'Object' under the 'text' category -> From the dialog box opened, click the 'Display as icon' checkbox -> select the 'Create from file' tab -> browse to find the Principal's P/CEMP, press 'OK')

4. Project Roles

The following personnel are assigned the following roles in this project (in-line with the Project Management Plan):

Project Client:

Program Manager (if app):

Project Manager:

Project Steering Committee (if app):

Local Environmental Coordinator:


Environmental Consultant (if app):

Contractor:

Subcontractors (if app):

Landlord (if relevant):

5. Approval and oversight

Environmental Management Leader	
Name	
Is a mid-project/construction evaluation required?	<input type="checkbox"/> (If ticked, please complete Appendix C – Mid project/construction evaluation of this P/CEMP) Date evaluation to be completed by project team:
P/CEMP File Number	P/CEMP # (To be provided by Environmental Management Leader)
Remarks	
Signature	

Project/Construction Completion Audit	
Has the project satisfactorily complied with the environmental obligations of this P/CEMP (Appendix D of this P/CEMP to be completed)?	<input type="checkbox"/> Yes <input type="checkbox"/> Yes, with further actions / conditions to be fulfilled – refer to GRC # <input type="checkbox"/> No, corrective action required - refer to GRC #

Appendix A Environmental Impact Assessment (EIA) and Control Implementation

For all decommission projects where ANSTO is the Principal and other projects >\$250,000 where ANSTO is the Principal, the Project Team shall identify any environmental impacts that will or may occur during the undertaking of the project, the proposed mitigation controls and perform a risk assessment on the inherent (pre-control implementation) and residual (post-control implementation) risks in the table below.

Refer to [The Requirements](#) for the relevant section details. Add additional lines if necessary (*select entire row, right-click and select 'insert rows below'*).

Please also include any compliance obligations (ie. laws, standards, internal ANSTO procedures) relevant to each impact identified. A non-exhaustive list of relevant compliance obligations is provided in **Appendix E**.

Section within AP-5400	Criteria	EIA Ref #	Identified Impacts (sub-categorise by impact under each section of The Requirements, eg. 8.1- Noise from earth movers)	Inherent Risk Assessment (use AG-2395 Risk Analysis Matrix)	Mitigation Controls (inc. minimum requirements to address compliance obligations)	Residual Risk Assessment (use AG-2395 Risk Analysis Matrix)
3	Air Quality	3.1				
		3.2				
4	Energy and Water Consumption (if applicable)	4.1				
		4.2				
5	Land and Surface/ Groundwater Contamination	5.1				
		5.2				

Section within AP-5400	Criteria	EIA Ref #	Identified Impacts (sub-categorise by impact under each section of The Requirements, eg. 8.1- Noise from earth movers)	Inherent Risk Assessment (use AG-2395 Risk Analysis Matrix)	Mitigation Controls (inc. minimum requirements to address compliance obligations)	Residual Risk Assessment (use AG-2395 Risk Analysis Matrix)
6	Waste	6.1				
		6.2				
7	Flora, fauna and heritage	7.1				
		7.2				
8	Noise and Vibration	8.1				
		8.2				
9	Visual Impact and Lighting	9.1				
		9.2				
10	Traffic and parking	10.1				
		10.2				

Appendix B Additional Environmental Planning Statements/Plans

For all decommission projects where ANSTO is the Principal and other projects >\$250,000 where ANSTO is the Principal, the Project Team shall provide a statement against each of the requirements in the table below.

Refer to [The Requirements](#) for the relevant section details.

Section	Criteria	Project Statement/Plan <i>(Insert document into space provided if required)</i>
11	Site Rehabilitation on Completion including Landscaping	
12	Education, Awareness and Training of Project Staff	
13	Environmental Emergency Planning (if applicable)	
	<i>Other plans as required (e.g. asbestos management plan)</i>	

Appendix C Mid Project/Construction Evaluation

Ref #	Relevant section in the Requirements	Question/Statement	Evaluation A = Acceptable O = OFI M = Minor NC C = Major NC	Comments
1	3	Have air pollution controls being effectively implemented and periodically evaluated?		
2	3	(If relevant) Are construction emissions targets being achieved, if not are actions being put in place to achieved?		
3	4	(If relevant) Are construction energy and water consumption targets being achieved, if not are actions being put in place to achieved?		
4	5.1	If there have been any alterations to stormwater/drainage, have impacts resulting from any alterations been effectively controlled?		
5	5.1	If aspects of the site stormwater/drainage system have been altered as a result of the project, have these alterations been appropriately controlled and ongoing plans developed in consultation with the ANSTO Landlord and ANSTO Hydraulics Engineer for the management of stormwater within the site's area of influence?		
6	5.7	Are sediment displacement controls implemented effectively for the types of sediment disturbed/created?		
7	5.2 / 10	If temporary roads and/or carparks have been installed, have the environmental impacts been considered and controlled effectively?		

Ref #	Relevant section in the Requirements	Question/Statement	Evaluation A = Acceptable O = OFI M = Minor NC C = Major NC	Comments
8	5.3	Are all excavations appropriately controlled for sediment displacement and stormwater/groundwater contamination?		
9	5.4 / 5.5	Are spoil/stockpiles being effectively managed and signposted as to their origin (VENM or OEM)?		
10	5.8	Is there any evidence of ground contamination from leakage from construction equipment?		
11	5.9	Is there any evidence of ground contamination from other introduced materials (ie. top soil, fuels and chemicals)?		
12	6	Is waste being effectively managed, segregated, sign-posted, disposal receipts stored and minimum landfill diversion targets met?		
13	7	Has any native vegetation that was not identified in the P/CEMP as potentially impacted, been impacted?		
14	7	Is there any evidence of native fauna being impacted by the project?		
16	7	Is there any evidence of heritage items not identified in the P/CEMP being impacted by the project?		

Ref #	Relevant section in the Requirements	Question/Statement	Evaluation A = Acceptable O = OFI M = Minor NC C = Major NC	Comments
17	8	Is noise and vibration as a result of the project being effectively managed and communicated to interested parties appropriately? Have there been any noise or vibration complaints raised?		
18	9.3	Is light spill or sky glow at night being managed effectively?		
19	11	Are areas where no further planned works will be conducted being rehabilitated promptly, effectively and to the state approved in the project Landscaping Plan or ABC (where a landscaping plan was not required, ie. <100 m ² of soil disturbance)?		
21	12	Is environmental training and awareness being communicated to the relevant staff on a regular basis?		
22	14	Are environmental incidents being lodged and the information conveyed through to the ANSTO Incident Management System?		
23	15	If an environmental incident occurs in relation to an impact that was not identified in the P/CEMP, has the impact being reviewed and subsequently included in the P/CEMP?		
24	All	Is the P/CEMP being reviewed upon changes to the project scope which may have an impact on the environment?		
25		Is the sustainable design plan for this project being implemented as approved, without deviation and is deemed effective against the sustainable design objectives for this project? (If relevant)		

Appendix D Project/Construction Completion Evaluation

Ref #	Relevant section in the Requirements	Question/Statement	Evaluation A = Acceptable O = OFI M = Minor NC C = Major NC	Comments
1	3	(If relevant) Were construction emissions targets being achieved?		
2	4	(If relevant) Were construction energy and water consumption targets achieved?		
3	5.1	If aspects of the site stormwater/drainage system have been altered as a result of the project, have these alterations been appropriately engineered to ensure the site-stormwater system is not negatively impacted?		
4	5.2 / 10	If temporary roads and/or carparks were installed, have the impacted areas been rehabilitated to their pre-project condition?		
5	5	Is there any evidence of un-remediated sediment displacement or erosion as a result of the project?		
6	5.8	Is there any evidence of ground contamination from leakage from construction equipment?		
7	5.9	Is there any evidence of ground contamination from other introduced materials (ie. top soil, fuels and chemicals)?		
8	6	Has all waste been cleared from the site and appropriately disposed of with receipts filed for all waste disposals?		

Ref #	Relevant section in the Requirements	Question/Statement	Evaluation A = Acceptable O = OFI M = Minor NC C = Major NC	Comments
9	6	Was the landfill waste diversion target met for the project?		
10	7	Has there been any evidence of native vegetation that was not identified in the P/CEMP as potentially impacted, been impacted?		
11	8	Has there been evidence of native fauna being impacted by the project?		
12	9	Has there been any evidence of heritage items not identified in the P/CEMP being impacted by the project?		
13	11.1	Has landscaping been completed in accordance with the originally approved project Landscaping Plan or the ANSTO Building Code?		
14	14	Have all environmental incidents being lodged and the information conveyed through to the ANSTO Incident Management System?		
15	15	Have any legacy environmental impacts/aspects been identified as a result of the project and subsequently been updated in the ANSTO Environmental Aspects Register?		
16		Was the sustainable design plan for this project implemented as approved, without deviation, deemed effective against the sustainable design objectives for this project and where applicable, been assessed against the relevant efficiency rating scheme (i.e. Greenstar or NABERS)		

Appendix E Relevant Environmental Compliance Obligations (non-exhaustive)

Section	Compliance Obligation
	Specific ARPANSA licence conditions
	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)
	Specific EPBC Act Referral conditions
	Relevant existing OPAL construction/operating conditions
	AG-3219 ANSTO Building Code
3	NSW EPA Air Quality Guidance Note: Construction Sites
6	NSW EPA Waste Characterisation Guidelines
8	AS 2436:2010 Guide to noise and vibration control on construction, demolition and maintenance sites
9	AS/NZS 1680.5:2012 Interior and workplace lighting – Outdoor workplace lighting