

*Natural Resources Conservation Authority*  
*Guidelines for the preparation of a Closure Plan for Industrial Type*  
*Projects*

***Introduction***

These guidelines have been prepared in order to assist the Permittee/ owners/ operators in developing Closure Plans for his facility. This guideline describes a Closure Plan as *the procedures for decommissioning of a facility and the removal of all the possible contaminants to air soil and water; equipment decontamination; sampling and laboratory analysis and closure to the satisfaction of the relevant standards and regulations stipulated by the National Environment and Planning Agency.*

***A. General***

- The activities to be undertaken in the Plan should be clearly listed, with target dates for completion.
- Waste produced due to closure activities must be both classified and quantified and the method of treatment and/or disposal stated.
- The Plan should include soil (and groundwater, if accessible) testing for the presence of contamination. The test methods used for analysis of the soil and groundwater samples should be indicated.

***B. Background Information***

This should include:

1. The nature of the probable/ possible contamination including list of chemicals used on site
2. Any published or otherwise known information in order to establish whether adjacent property owners are or have been potential sources of contamination
3. Present zoning of the site and details of the zone categories of properties surrounding the site
4. Contour or topographic maps
5. Likely future use of the site
6. Risk Assessment
7. The results of any previous investigations of the site or surrounding land
8. Locations of surface water bodies, particularly where these may be adversely affected by contaminated groundwater or surface drainage from the site

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9. Hydrogeological information which should include:
  - The extent and use of aquifers in the area
  - Estimated depth to groundwater
  - Probable direction of groundwater flow and gradient
  - Soils and soil properties (soil type, porosity and hydraulic conductivity)
  - Location of any springs
  - Sources of local municipal water supply and the location of registered private or industrial wells or bores
10. Solid waste disposal
11. Security of facility/area scheduled for closure. This should include the postage of relevant signs.

**Note:** The Authority may require remediation for sites found with significant levels of contamination. In such cases a Remediation Plan shall be submitted for review and approval.

Post Closure Monitoring must be conducted for an agreed period for any contamination that may be present on site. The parameters to be monitored, the frequency of monitoring, the test methods used for the analyses and the end points to be achieved must be clearly stated.

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