

Site contamination audit GPA checklist

Issued November 2024

This checklist is to be used by site contamination auditors (auditors) accredited by the EPA under Part 10A of the *Environment Protection Act 1993* (the Act) to support interim audit advice recommendations for a groundwater prohibition area (GPA) under section 103S of the Act. Further information is provided in the *Interim audit system guidance: GPAs*.

AUDITOR DETAILS	
Name of auditor	
Auditor accreditation number	
Name of auditor's Company or Business	
EPA audit reference	

AUDIT SITE DETAILS	Page/Section in document	Submitted (√)
Name of audit site		
Address of audit site		
List of all Certificates of Title applying to audit site		

INFORMATION TO BE SUBMITTED (refer MGR-GPA2)	Page/Section in document	Submitted (√)
SOURCE		
The location and information relating to the known or likely source(s) of site contamination and how this contamination is being managed		
Chemical substances of concern		
The proximity of commercial / industrial precincts that could have sources of contamination related to historical activities		
Whether existing registered bores are screened across more than one aquifer thus providing a pathway to link contamination to deeper groundwater zones		
The known lateral and vertical extent of the groundwater plume(s) including any areas of uncertainty such as the variability of the sub-surface profile		
The extent to which the groundwater plume(s) has migrated from the likely original source areas		
The stability of the groundwater plume(s) If not stable, the predicted future migration and long-term stability of the groundwater plume(s)		

INFORMATION TO BE SUBMITTED (refer MGR-GPA2)	Page/Section in document	Submitted (✓)
A statement on the existence of site contamination pursuant to Section 5B of the <i>Environment Protection Act</i> (1993)		
EXPOSURE PATHWAY		
Geology		
Groundwater depth (m)		
Groundwater flow direction		
Hydraulic conductivity/ flow velocity		
Salinity		
Environmental values		
Groundwater recharge and discharge mechanisms and inferred flow direction (local and regional)		
Groundwater / surface water interactions within 2 km of the site including consideration of any prescribed management areas, aquatic reserves or sanctuaries		
RECEPTORS		
The proximity of registered bores or other groundwater users		
WaterConnect ¹ Bore Search summary including: <ul style="list-style-type: none"> • Number of registered groundwater bores nearby (i.e. 2km from site) • Registered uses/purposes of nearby groundwater bores with focus on unconfined and next underlying aquifer systems • Groundwater salinity range (total dissolved solids, TDS) • Lithology of key wells to support preliminary HCM • Construction and water cut information of key wells to support HCM 		
Estimated depth to groundwater		
Aquifers impacted (including depth ranges)		
Whether groundwater is used as the primary water supply in the area		
The potential for groundwater abstraction to draw contaminants towards the extraction point whether from existing registered bores or if new bores in the area were permitted		

¹ <https://www.waterconnect.sa.gov.au/Systems/GD/Pages/Default.aspx>

INFORMATION TO BE SUBMITTED (refer MGR-GPA2)	Page/Section in document	Submitted (√)
Whether a buffer zone is required to address the uncertainties and satisfy the precautionary principle ²		

² Refer to the [EPA GPA Information Sheet](#)

JUSTIFICATION OF AREA BOUNDARIES		
<ul style="list-style-type: none"> • North: • South: • East: • West • Vertical: <p>Discussion of buffer zone (if required):</p>		
ADDITIONAL CONSIDERATIONS		
Trend analysis		
Hydrogeological Modelling		
Ongoing Monitoring.		
ATTACHMENTS		
A clear and concise supporting summary statement providing all of the above information		
Tabulated groundwater quality summary table, detailing all sampling rounds		
Shapefile of groundwater contamination map and buffer area if required (anticipated auditor recommended GPA)		
Community Engagement Plan (refer MGR-GPA3)		