



Australian Government

Department of Education, Employment and Workplace Relations

AHCSOL403A Prepare acid sulphate soil management plans

Release: 1

AHCSOL403A Prepare acid sulphate soil management plans

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of developing management plans that address the relevant legislation and issues associated with land and ground water disturbing activities for Acid Sulphate Soil (ASS) and defines the standard required to: complete a desktop assessment of the land for actual and potential ASS risk based on current/proposed land use, site data and compliance issues; collect and use field and test data to identify strategies to remediate and manage the site; document an ASS management plan and effectively communicate it to the landowner, relevant consent authority and contractors; support implementation of ASS management plan by reports on materials management and remediation and site rehabilitation.
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Application of the Unit

Application of the unit	This unit is likely to be carried out independently within enterprise guidelines.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Conduct desktop assessment of the land and groundwater disturbing activity for potential and actual ASS risk	1.1. Current/proposed land use established and documented following discussions with landholder and relevant consent authority. 1.2. Site data assessed following industry guidelines and relevant consent authority standards. 1.3. Compliance issues established/checked with relevant regulatory authority or environmental legislation and/or industry procedures. 1.4. Site investigations communicated to proponent/landholder and concurrence is established to develop a management plan in accordance with relevant consent authority requirements.
2. Develop ASS remediation/management strategy	2.1. Field investigation and laboratory test data reviewed and matched to strategy options consistent with industry principles and relevant consent authority standards. 2.2. ASS management options identified consistent with industry guidelines and relevant consent authority requirements. 2.3. Remediation/management strategies identified and documented in consultation with the landholder/developer and relevant consent authority.
3. Prepare an ASS site management plan	3.1. Remediation/management strategies are checked against industry guidelines and relevant consent authority requirements. 3.2. Design specifications for structures incorporated in management plan details. 3.3. Monitoring strategies for the site are detailed in line with prevailing site factors and industry guidelines and relevant consent authority standards. 3.4. On site responsibilities listed following industry guidelines and relevant consent authority requirements. 3.5. Contingency procedures in accordance with industry guidelines and relevant consent authority requirements.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- ability to assess field and laboratory results from AASS and PASS sites
- collaborate with designers and relevant consent authority
- develop remediation and management strategies
- develop monitoring strategies
- prepare works action plans
- prepare ASS management plans
- prepare reports on materials management and remediation and site rehabilitation to implement approved ASS plans
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record routine and more complex workplace measures and data
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- relevant environmental, planning and groundwater legislation
- planning process for remediation and management plans
- ASS assessment tools
- environmental impacts of ASS
- environmental plans, strategies and options for management and remediation
- total catchment issues
- principles of duty of care and due diligence
- soils and soil chemistry
- levels and levelling
- earthmoving principles
- environmental impact issues
- managing acid leachate water flows
- subsurface and surface drainage principles and systems.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • complete a desktop assessment of the land for actual and potential ASS risk based on current/proposed land use, site data and compliance issues • collect and use field and test data to identify strategies to remediate and manage the site • document an ASS management plan and effectively communicate it to the landowner, relevant consent authority and contractors • support implementation of ASS management plan by reports on materials management and remediation and site rehabilitation.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Management plans may include:	• plans covering type of land use and/or works • land class (LGA zoning and ASS Planning and Risk Map classes) • site characteristics • land tenure • drainage administration

RANGE STATEMENT

	• construction methodology • materials remediation • site rehabilitation to industry guidelines and relevant consent authority standards.
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Unit Sector(s)

Unit sector	Soils and media
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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