

Specification (Measurement)

Transport and Main Roads Specifications MRS51 Environmental Management

October 2016





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1 Introduction

This Specification describes environmental management requirements applicable to all activities relating to the Contract.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items incorporated in this Specification are listed in Table 2.1.

Table 2.1 - Standard Work Items

Standard Item No.	Description	Unit of Measurement
1330	Environmental Inspections	lump sum
1331	Develop Environmental Management Plan (Construction)	lump sum
1332	Implement Environmental Management Plan (Construction)	lump sum
1333	Environmental Licences, Permits and Approvals	lump sum
1351	Cultural Heritage Management	lump sum
1355P	Noise Monitoring, if ordered (Provisional Quantity)	each
1361P	Condition Survey and Vibration Monitoring, if ordered (Provisional Quantity)	each
1362	Vibration Monitoring	lump sum
1365P	Air Quality Monitoring, if ordered (Provisional Quantity)	each
1371P	Management of Contaminated Sites, if ordered (Provisional Quantity)	m³
1375P	Fauna Management, if ordered (Provisional Quantity)	each
1381P	Biosecurity matter Control, if ordered (Provisional Quantity)	each

2.2 Work Operations

Work operations included in the Standard Work Items are specified in the relevant Clause adjacent to each Standard Work Item listed in Table 2.1.

2.3 Standard Work Items and Work Operations

2.3.1 Environmental inspections

The Standard Work Item applicable to environmental inspections is:

Item 1330 Environmental inspections

Work Operations incorporated into the above item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- routine site inspections to verify contractor compliance with the Environmental Management Plan (Construction), environmental licenses, permits and approvals and other environmental performance requirements specified within the contract
- c) completion of inspections as specified in Annexure MRTS51.1, and
- d) management and communication of site inspection results and records to all relevant parties.

2.3.2 Environmental Management Plan (construction)

The Standard Work Items applicable to Environmental Management Plan (Construction) are:

Item 1331 Develop Environmental Management Plan (Construction)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) site investigations and research in the development of the Environmental Management Plan (Construction), and
- c) documentation, submission and amendment (where necessary) of the Environmental Management Plan (Construction).

Item 1332 Implement Environmental Management Plan (Construction)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) review and amend Environmental Management Plan (Construction), and
- undertake all works and activities described within the Environmental Management Plan (Construction), unless covered under a separate work item.

2.3.3 Environmental licences, permits and approvals

The Standard Work Item applicable to Contractor's licences, permits and approvals is:

Item 1333 Environmental Licences, Permits and Approvals

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) research and prepare applications to obtain licences, permits and approvals, and
- c) reimbursement of fees charged by administering authorities and other expenses associated with acquiring licences, permits and approvals.

2.3.4 Cultural heritage

The Standard Work Item applicable to cultural heritage:

Item 1351 Cultural Heritage Management

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) notifying the Administrator within agreed timeframes (unless otherwise agreed, seven days) prior to working in known areas of cultural heritage significance
- c) carrying out site inductions for cultural heritage monitors
- d) co-ordinating cultural heritage monitoring
- e) installing exclusion zones, and
- f) cultural heritage induction of staff.

2.3.5 Noise monitoring

The Standard Work Item applicable to noise monitoring:

Item 1355P Noise Monitoring, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications, and
- b) noise monitoring as outlined in Clause 3 of Annexure MRTS51.1

2.3.6 Vibration

The Standard Work Item applicable to vibration:

Item 1361P Condition Survey and Vibration Monitoring, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) condition survey of premises, buildings and structures listed in Clause 4.1 of Annexure MRTS51.1, and
- c) undertake vibration monitoring as listed in Clause 4.3 of Annexure MRTS51.1.

Item 1362 Vibration Monitoring

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) undertake vibration monitoring as listed in Clause 4.3 of Annexure MRTS51.1

2.3.7 Air quality

The Standard Work Item applicable to air quality:

Item 1365P Air Quality Monitoring, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications, and
- b) air quality monitoring as outlined in Clause 5.3 of Annexure MRTS51.1

2.3.8 Contaminated sites

The Standard Work Item applicable to contaminated soil:

Item 1371P Management of Contaminated Sites, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) treatment and /or encapsulation and/or removal and disposal of known contaminated material and backfilling as outlined in Clause 6.2 of Annexure MRTS51.1, and
- c) documentation of treatment, transport and/or disposal of the contaminated material in accordance with local and state government regulations.

2.3.9 Fauna

The Standard Work Item applicable to fauna is:

Item 1375P Fauna Management, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) site inspections, recovery and relocation of fauna, and
- c) fauna spotter catcher

2.3.10 Biosecurity management

The Standard Work Item applicable to pest management is:

Item 1381P Biosecurity Control, if ordered (Provisional Quantity)

Work Operations incorporated in this item include the following:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) management and control of biosecurity matters within the construction zone, and
- c) management of biosecurity matter zones applicable to the contract

2.4 Payment

2.4.1 Environmental inspections

Where an environmental investigation demonstrates a non-conformance with the EMP(C), the Contractor shall be responsible for investigation costs and all associated amelioration costs.

2.4.2 Contaminated sites

Remediation of additional contaminated sites discovered during the construction shall be undertaken as a variation to the contract unless the Contractor is found to be the cause of the contamination.

2.4.3 Chemicals and fuels

The Contractor shall pay all costs associated with remediation of contamination resulting from spills and leaks of chemicals and fuels.

