

Guideline

Project Waste Reporting

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1 Purpose

Under the *Waste Reduction and Recycling Act 2011* (WRRRA), the Department of Transport and Main Roads is required to annually report on the volumes of waste generated, reused, recycled and disposed to landfill. The department is expected to contribute to the Queensland government's waste reduction targets and report how we are achieving this.

The purpose of this guideline is to provide guidance to Contractors, Contract Administrators and Environmental Officers about the process for project waste reporting in accordance to contract Technical Specifications MRTS51 *Environmental Management*.

2 Scope

2.1 In scope

Waste generated by departmental Contractors under the following Contracts are in scope:

- *Transport Infrastructure Contracts* (TIC)—including, Contract Only, Sole Invitation, Design and Construct
- *Minor Infrastructure Contracts* (MIC) replace Minor Works Contract (MWC)
- *Minor Works Performance Contracts* (MWPC)
- *Road Asset Management Contracts* (RAMC)
- *Road Maintenance Performance Contracts* (RMPC)
- Collaborative Project Agreements (CPA)

Reporting is required for all construction and maintenance contracts regardless of cost or contract period.

2.2 Out of scope

Out of scope for project waste reporting includes:

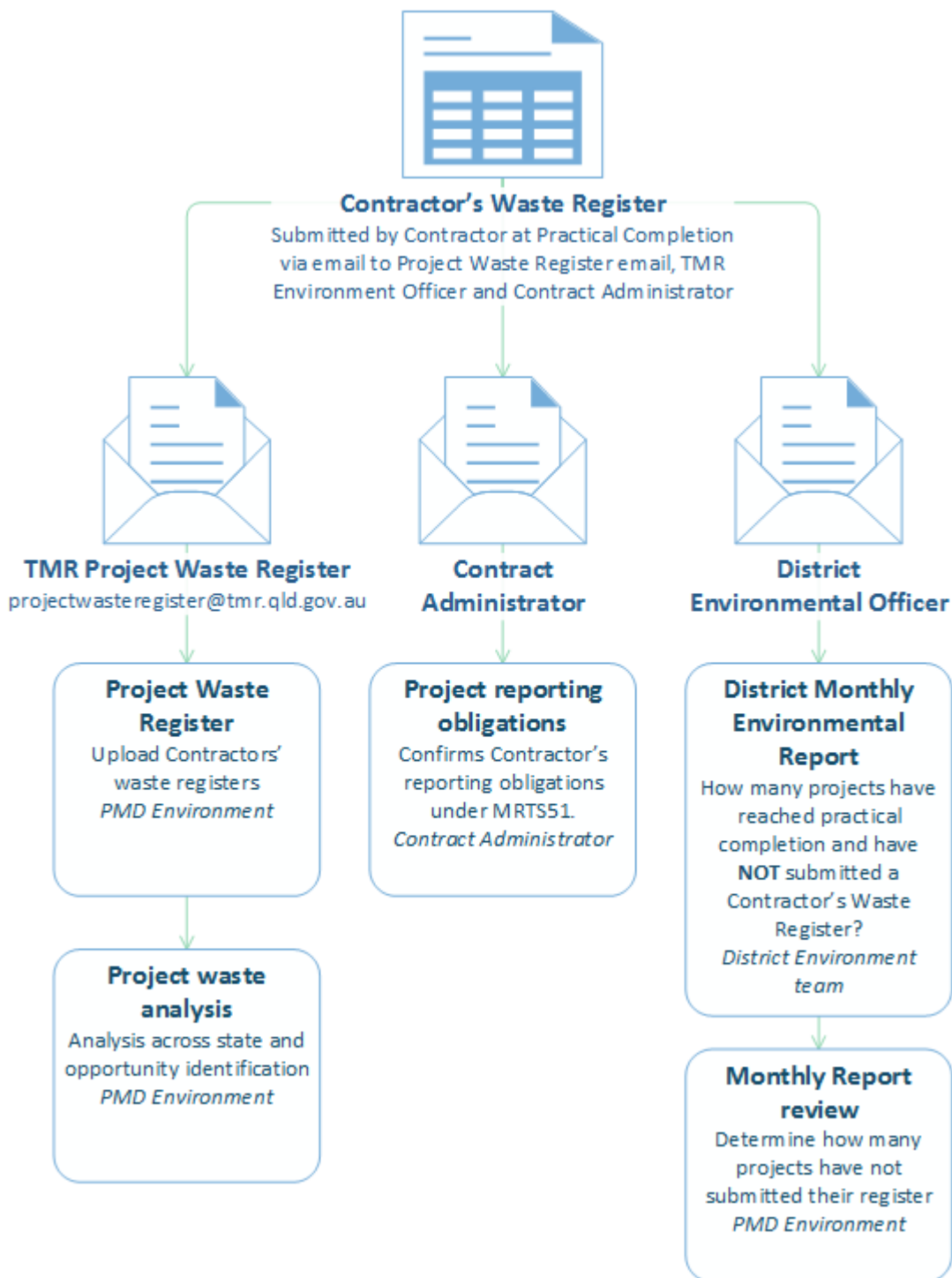
- suppliers' waste (to avoid double reporting)
- litter outside of project generated waste
- septic waste that is connected to sewer
- emissions
- naturally occurring radionuclides/asbestos
- water captured in sediment basins

3 Actions

- 1) The Project Manager or Environmental Officer triggers project waste reporting in Clause 11.2 of Annexure MRTS51.1 during the preparation of Contract documentation. This annexure is to include the District's Environment team group email address (if available) and/or the email of the department's Environmental Officer for the project.
- 2) During the Contract, the Contractor shall record data on waste generated, recycled and disposed to land fill in accordance with Annexure MRTS51.1 and the Waste Reporting Register in MRTS51 Appendix – Form C Contractor's Waste Register.

- 3) Data will be categorised by waste stream and measured by the various waste management hierarchy categories, such as waste generated, reuse, recycle, and disposed to landfill.
- 4) At practical completion, the Contractor shall email the completed Contractor's Waste Register by the date of practical completion to the:
 - a) Transport and Main Roads Project Waste Register email inbox (ProjectWasteRegister@tmr.qld.gov.au)
 - b) District Environment team email address and/or Transport and Main Roads Environment Officer email for the project
 - c) Contract Administrator for the project
- 5) Upon receiving the Contractor's Waste Register, the Contract Administrator shall confirm the Contractor's reporting obligations under Technical Specification MRTS51 *Environmental Management*.
- 6) As part of the monthly District Environmental Report, the Environmental Officer shall identify the number of Contractor's Waste Registers not submitted from projects that have reached practical completion for the month.
 - a) Contractors that do not produce a Contractor's Waste Register, as obliged under MRTS51, will be flagged in the whole-of-department waste report as nonconforming
- 7) Upon receiving the Contractor's Waste Register, the Program Management and Delivery (PMD) Environment team will enter the information into the Transport and Main Roads State-wide Project Waste Register database. Project waste data will then be collated with the department's facility waste data.
- 8) The final waste quantities for the department will be reported to the Department of Environment and Science annually by PMD to fulfil Transport and Main Roads' obligation under the *Waste Reduction and Recycling Act 2011*.
- 9) PMD will undertake analysis of the final waste data to identify trend information and learnings in order to determine cost effective initiatives for future waste reduction.

Figure 3 – Flowchart for submission of Contractor’s Waste Register



4 References

- MRTS51 *Environmental Management*, Annexure and Appendix (Form C)
<http://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/Specifications/3-Roadworks-Drainage-Culverts-and-Geotechnical>
- *Waste Reduction and Recycling Plan*
<http://www.tmr.qld.gov.au/Community-and-environment/Environmental-management/Land/Waste-management>

5 Definitions of terms







Term	Definition
Generated	Quantity of material or products that enters a waste stream before composting, incinerating, landfilling, or recycling.
Reused	Quantity of waste material reused before replacing (for example, update computer rather than get rid of. Reusing without further manufacturing).
Recycled	Quantity of waste material that is recovered and used as an input or resource product (for example, item or components are put to some similar or new purpose).
Disposed	Quantity of discarded or discharged material waste that has been disposed of at landfill facilities in accordance to prescribed legislation.

6 Conversion and Bin Size Tables

Table 1 - Conversion table

Waste Stream	Measure	Conversion to Kg
Tonnes	1t	1000kg
General refuse	1m ³	146kg
Oil	1L	0.881kg
Oil/water	1L	0.91kg
Sewage	1L	0.72kg
Thinners	1L	0.75kg
Paint	1L	2.4kg
Plastic Container	20L	1.5kg
Metal Drum	220L	15kg
Bladder	250-500L	25kg
Spray can	375ml	0.15kg
Passenger tyre	1	19kg
Light truck tyre	1	38kg
Truck tyre	1	95kg
Solid tyre	< 0.3m	57kg
Solid tyre	> 0.3m < 0.45m	95kg
Solid tyre	> 0.45m < 0.6m	133kg
Grader tyre	1	285kg
Earthmover tyre	< 1m	190kg
Motorcycle batter	1	3kg
Passenger vehicle battery	1	14.3kg
Light commercial battery	1	15.7kg
Rigid truck battery	1	23kg
Articulated truck battery	1	31.5kg
Non-freight carry truck	1	31.8kg
Bus battery	1	31.6kg
Paint, chemical, fuels, oils and contamintaed water	1000L	1000kg
Loose vegetation with major trunks and large branches, or soil debri from clearing and grubbing	1m ³	885kg
Loose vegetation with mostly smll branches and grass	1m ³	445kg

Table 2 - Bin size conversion table

Bin Size (litres)	Dimensions (approx)			How Full	Full in Litres	m ³	General Waste	Recycled Waste	Recall Paper Waste	Cardboard	Green waste	Metal	Asphalt	Concrete	Soil	Timber
	Width	Height	Depth				kg	kg	kg	kg	kg	tonnes	tonnes	tonnes	tonnes	tonnes
 120	480	930	545	1/4	30	0.03	4	4	6	21	13	0.236	0.022	0.067	0.050	0.018
				1/2	60	0.06	9	9	12	41	27	0.471	0.043	0.135	0.099	0.036
				3/4	90	0.09	13	13	19	62	40	0.707	0.065	0.202	0.149	0.054
				FULL	120	0.12	17	17	25	83	53	0.942	0.087	0.269	0.198	0.072
 240	585	1060	730	1/4	60	0.06	9	9	12	41	27	0.471	0.043	0.135	0.099	0.036
				1/2	120	0.12	17	17	25	83	53	0.942	0.087	0.269	0.198	0.072
				3/4	180	0.18	26	26	37	124	80	1.413	0.130	0.404	0.297	0.108
				FULL	240	0.24	35	35	50	166	107	1.884	0.173	0.538	0.396	0.144
 660	1260	1200	780	1/4	115	0.115	17	17	24	80	51	0.903	0.083	0.258	0.190	0.069
				1/2	330	0.33	48	48	69	228	147	2.591	0.238	0.740	0.545	0.198
				3/4	445	0.445	65	65	93	308	198	3.493	0.321	0.998	0.734	0.267
				FULL	660	0.66	96	96	137	456	294	5.181	0.476	1.480	1.089	0.396
 1100	1240	1330	1070	1/4	275	0.275	40	40	57	190	122	2.159	0.198	0.617	0.454	0.165
				1/2	550	0.55	80	80	115	380	245	4.318	0.397	1.234	0.908	0.330
				3/4	825	0.825	120	120	172	571	367	6.476	0.595	1.850	1.361	0.495
				FULL	1100	1.1	160	160	229	761	490	8.635	0.793	2.467	1.815	0.660
 1500	2025	1110	1300	1/4	375	0.375	55	55	78	259	167	2.944	0.270	0.841	0.619	0.225
				1/2	750	0.75	109	109	156	519	334	5.888	0.541	1.682	1.238	0.450
				3/4	1125	1.125	164	164	234	778	501	8.831	0.811	2.523	1.856	0.675
				FULL	1500	1.5	219	219	312	1037	668	11.775	1.082	3.365	2.475	0.900
 3000	2040	1690	1460	1/4	750	0.75	109	109	156	519	334	5.888	0.541	1.682	1.238	0.450
				1/2	1500	1.5	219	219	312	1037	668	11.775	1.082	3.365	2.475	0.900
				3/4	2250	2.25	328	328	469	1556	1002	17.663	1.622	5.047	3.713	1.350
				FULL	3000	3	437	437	625	2075	1336	23.550	2.163	6.729	4.950	1.800