

Management of Quarry Reference Specimens

CoP
RC 500.03
April 2022

Abstract

This Code of Practice outlines the management of Quarry Reference Specimens and provides the Quarry Reference Specimen Register (QRSR). The QRSR details current Quarry Reference Specimen Lists (QRSL) to be used by quarries, testing laboratories, contractors and the Department of Transport (DoT) for assessing the quality of crushed rock and aggregate.

1. Quarry Reference Specimen

Definition: A small quantity of representative crushed rock particles from a quarry face, usually of 10mm nominal size, prepared in accordance with RC 372.02 and AS 1141.30.2.

A quarry reference specimen is specific to a rock source and is classified as either “sound”, “marginal”, or “unsound”. The reference specimen is used in the assessment of the quality of coarse aggregates in accordance with RC 372.01 and AS 1141.30.1.

2. Quarry Reference Specimen List

Definition: A document which provides details of the reference specimens to be used in the assessment of the quality of coarse aggregates in accordance with RC 372.01 and AS 1141.30.1.

The unique identifier for a particular QRSL is its list number. If the QRSL is updated, e.g. because samples are added to or removed from the Quarry Reference Specimen set, a new list number will be automatically assigned.

Information given in the QRSL includes:

- The supplier name and supplier number
- The list number
- The status of the QRSL as either “draft”, “current” or “obsolete”,
- The date on which the QRSL comes into effect (“Effective Date”)
- The rock type and category
- The range for applicable durability test results
- DoT laboratory number for each sample

- Report number of associated quarry investigation report
- Sampling date
- Durability classification (Sound/Marginal/Unsound)
- Sampling location

3. Quarry Reference Specimen Register

The current QRSL list numbers applicable to individual DoT accredited suppliers are maintained in the Quarry Reference Specimen Register, as the Appendix to RC 500.03.

The QRSR will only show the supplier name and number, list number and effective date for each current QRSL. Details of the reference specimens will not be shown.

The register is reviewed during the year and updated to reflect any changes.

4. Protection of Confidentiality

In accordance with DoT Code of Practice RC 500.00, parties external to DoT or its authorised agents will not be given access to any sets of reference specimens, any quarry information (e.g. assigned values, QRSL etc.) or quarry investigation reports held within DoT unless prior permission is obtained both from the supplier who owns the rock and from DoT. A record of supplier permission granting access to any quarry information or investigation reports must be maintained by DoT.

5. Visual Assessment of Coarse Aggregates

When quarry laboratories carry out “unsound stone counts”, i.e. visual assessments of aggregate quality in accordance with RC 372.01 and AS 1141.30.1,

the reference set used must be the set identified on the relevant QRSL listed as “current” in the QRSR on the DoT website. In case of any discrepancies, DoT quarry accreditation officers shall be contacted immediately.

6. References

1. RC 372.01 DoT Test Method – *Coarse Aggregate Quality by Visual Assessment*
2. AS 1141.30.1 Australian Standard – Methods for Sampling and Testing Aggregates – *Coarse Aggregate Quality by Visual Comparison*
3. AS 1141.30.2 Australian Standard – Methods for Sampling and Testing Aggregates – *Preparation of Aggregate Reference Specimens for Visual Comparison*

Appendices

APPENDIX A Quarry Reference Specimen Register

Limitations	
C – Crushed Concrete only	N – Newer Basalt Surface Spalls only
F – Class 4 CR only	H – Class 3 and 4 CR only
K – Class 2, 3 and 4 CR only	

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
VICTORIA			
ACM – Aurora Constr. Materials Beveridge – N	C0000708	GR0000393	10/04/2017
ACM – Aurora Constr. Materials Epping – N	C0000045	GR0000266	24/03/2014
ACM – Aurora Constr. Materials Rockbank – N	C0000621	GR0000391	07/03/2017
Aerolite Anakie – H	C0000476	No Current List	Not Applicable
Alex Fraser Recycling Clayton – C	C0000491	Not applicable	Not applicable
Alex Fraser Recycling Epping – C	C0000268	Not applicable	Not applicable
Alex Fraser Recycling Epping – N	C0000552	GR0000022	10/09/2009
Alex Fraser Recycling Laverton – C	C0000489	Not applicable	Not applicable
Alex Fraser Recycling Laverton – N	C0000490	GR0000108	10/09/2009
Allstone Eaglehawk – C	C0000291	Not Applicable	Not Applicable
Allstone Newbridge	C0000016	GR0000507	02/08/2019
Andrew Goldman Excavations Tungamah – F	C0000800	Not Applicable	Not Applicable
Ausdecom Laverton – C	C0000860	Not Applicable	Not Applicable
Ausdecom Laverton – N	C0000861	GR0000612	02/08/2021
BAMStone Pt Fairy	C0000576	GR0000414	12/03/2019

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Barfold Quarry	C0000621	GR0000550	01/02/2022
Bell's Lake Gilleard	C0000580	Not applicable	Not applicable
Birregurra Resources	C0000604	GR0000613	02/08/2021
Boral Charlton	C0000019	GR0000493	26/06/2019
Boral Coldstream	C0000020	GR0000458	15/04/2019
Boral Coldstream Recycling – C	C0000531	Not applicable	Not applicable
Boral Cosgrove	C0000021	GR0000465	25/03/2019
Boral Lysterfield (Dandenong)	C0000024	GR0000633	01/02/2022
Boral Lysterfield (Dandenong) Recycling – C	C0000493	Not applicable	Not applicable
Boral Deer Park	C0000025	GR0000619	13/09/2021
Boral Deer Park Recycling – C	C0000797	Not applicable	Not applicable
Boral Deer Park Recycling – N	C0000812	GR0000559	01/04/2020
Boral Dunnstown	C0000026	GR0000468	23/01/2019
Boral Montrose	C0000006	GR0000635	10/03/2022
Boral Mt Napier (Dundas)	C0000029	GR0000479	06/05/2019
Boral Waurn Ponds	C0000825	GR0000579	17/11/2020
Boral Waurn Ponds Recycling – C	C0000817	Not applicable	Not applicable
Boral Waurn Ponds Recycling – N	C0000818	GR0000567	01/06/2020
Boral Wollert	C0000030	GR0000501	11/07/2019
Boral Wollert Recycling – C	C0000583	Not applicable	Not applicable
Boral (Grahams) Dookie	C0000032	GR0000464	25/03/2019
Boral/Delta Recycling Sunshine – C	C0000492	Not applicable	Not applicable
Butler Excavations Wendouree – F	C0000852	Not applicable	Not applicable

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Cardinia Environmental – C	C0000838	Not applicable	Not applicable
Casacir Neerim North	C0000270	GR0000476	15/04/2019
Castella Quarry	C0000034	GR0000517	29/08/2019
Central Quarries Rockbank	C0000603	GR0000448	13/12/2018
Chelvon Quarries Maude	C0000509	GR0000555	18/02/2020
City Circle Recycling Brooklyn – C	C0000262	Not applicable	Not applicable
City Circle Recycling Brooklyn – N	C0000599	GR0000108	10/09/2009
City Circle Recycling Dandenong – C	C0000586	Not applicable	Not applicable
City Circle Recycling Melton – C	C0000732	Not applicable	Not applicable
City Circle Recycling Melton – N	C0000646	GR0000339	27/04/2016
Coburns Earthmoving Ryan's Pit Nyah – H	C0000739	Not Applicable	Not Applicable
Commercial Tippers / Ecocrush – C	C0000660	Not applicable	Not applicable
Coragulac Quarries	C0000865	GR0000616	23/08/2021
Driffield Quarry	C0000051	GR0000590	28/01/2021
Eastern Quarries Benambra	C0000087	GR0000608	30/04/2021
Euroa Quarries – Gooram	C0000462	GR0000332	22/12/2021
Frank R Russell Quarries Stonyford – F	C0000814	Not Applicable	Not Applicable
Fulton Hogan North Shore – F	C0000866	Not Applicable	Not Applicable
Fulton Hogan Tylden	C0000053	GR0000628	22/12/2021
Fulton Hogan Tynong	C0000022	GR0000407	26/07/2017
Fulton Hogan Tynong New Hole	C0000614	GR0000614	12/01/2022
Geelong Quarries	C0000588	GR0000478	29/04/2019

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Gilleear Lime – H	C0000837	Not Applicable	Not Applicable
Goulburn Valley Resources	C0000584	Not applicable	Not applicable
Granite Rock Quarry	C0000057	GR0000483	11/07/2019
G.E.M. Moree	C0000039	GR0000284	05/03/2015
Hampstead Gravel Talbot	C0000069	GR0000538	14/11/2019
Hanson Axedale	C0000058	GR0000492	24/06/2019
Hanson Carisbrook	C0000059	GR0000632	01/02/2022
Hanson Kilmore	C0000062	GR0000508	02/08/2019
Hanson Werribee (Little River)	C0000565	GR0000539	14/10/2019
Hanson Lysterfield	C0000063	GR0000607	30/04/2021
Hanson Lysterfield Hornfels	C0000685	GR0000685	08/11/2021
Hanson Wollert	C0000065	GR0000629	20/12/2021
Hanson Wollert – N	C0000624	GR0000575	31/08/2020
Hi-Quality Bulla – H	C0000274	GR0000399	10/05/2017
Hillview Quarries Dromana	C0000066	GR0000564	20/05/2020
Harsco Metals & Minerals	C0000787	Not applicable	Not applicable
Holcim Colac	C0000036	GR0000531	21/10/2019
Holcim Jeeralang North	C0000037	GR0000522	30/09/2019
Holcim Leongatha	C0000038	GR0000605	30/04/2021
Holcim Oaklands Junction Granite	C0000047	GR0000601	30/04/2021
Holcim Oaklands Junction Hornfels	C0000048	GR0000602	30/04/2021
Holcim Oaklands Junction Recycling – C	C0000790	Not applicable	Not applicable
Holcim Pakenham	C0000010	GR0000634	16/02/2022

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Holcim Tarrone (Warrnambool)	C0000041	GR0000530	21/10/2019
Holcim Tynong North	C0000042	GR0000588	27/01/2021
Holcim Werribee	C0000043	GR0000469	25/03/2019
Holcim Werribee Manor Hole	C0000651	GR0000335	25/02/2016
Holcim Werribee Recycling – C	C0000701	Not applicable	Not applicable
Judd Tungamah	C0000459	GR0000239	14/11/2012
Konongwootong Quarry	C0000856	GR0000600	30/04/2021
Krie Crushing & Recycling – C	C0000857	Not applicable	Not applicable
Latrobe Valley Blue Metal	C0000068	GR0000085	28/10/2008
Lawrence Bros Field's Pit – K	C0000590	GR0000329	07/01/2016
Lethbridge Quarry	C0000507	GR0000529	21/10/2019
Lilydale Quarry – H	C0000828	GR0000572	14/08/2020
Lima South Quarry	C0000070	GR0000589	28/01/2021
Local Mix Moolap – C	C0000637	Not applicable	Not applicable
Local Mix Quarry Anakie -F	C0000276	Not applicable	Not applicable
McClure Kanowna – F	C0000795	Not applicable	Not applicable
McKinnon Cann River – K	C0000568	GR0000503	01/08/2019
Masalkovski Rockbank – N	C0000859	GR0000596	12/04/2021
Matthews Quarries Tyers (Boola)	C0000071	GR0000597	01/04/2021
Mawsons Glenrowan	C0000072	GR0000637	25/03/2022
Mawsons Lake Boga	C0000073	GR0000473	04/04/2019
Mawsons Lake Cooper	C0000074	GR0000599	30/04/2021

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Mawsons Mansfield	C0000017	GR0000390	12/03/2019
Mawsons Pyramid Hill	C0000075	GR0000541	28/11/2019
Mawsons Pyramid Hill Recycling – C	C0000813	Not applicable	Not applicable
Mawsons Seymour Quarry – H	C0000804	GR0000578	06/11/2020
Mawsons Yabba North	C0000076	GR0000318	16/11/2015
Mibus Bros Ryan Corner – F	C0000878	Not Applicable	Not Applicable
Millewa Quarries – H	C0000077	Not Applicable	Not Applicable
Molans Camperdown	C0000105	GR0000436	12/10/2018
Molans Salt Creek	C0000277	GR0000516	29/08/2019
Mountain View Quarries Donnybrook Recycling – N	C0000103	GR0000256	03/10/2013
Mountain View Quarries Little River	C0000643	GR0000518	16/09/2019
Mountain View Quarries Point Wilson	C0000080	GR0000481	01/05/2019
Mountain View Quarries Seymour	C0000081	GR0000615	17/08/2021
Mountain View Quarries Wyndhamvale	C0000083	GR0000509	16/09/2019
Mountain View Quarries Wyndhamvale Recycling – N	C0000807	GR0000553	12/02/2020
Mountain View Quarries Sunshine – C	C0000581	Not applicable	Not applicable
Mountain View Quarries Sunshine – N	C0000082	GR0000104	29/11/2006
Mt Drummond Quarry Stawell	C0000084	GR0000497	26/06/2019
North Altona Rock Blasting Plumpton Rd – C	C0000498	Not applicable	Not applicable
North Altona Rock Blasting Plumpton Rd – N	C0000495	GR0000175	23/09/2010
Northern Quarries Epping	C0000086	GR0000472	10/04/2019
Ouyen Mix Concrete & Hire – H	C0000839	Not Applicable	Not Applicable

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
RAK Davis & Sons Armytage – F	C0000827	Not Applicable	Not Applicable
Real Green Concrete – C	C0000870	Not Applicable	Not Applicable
Real Green Concrete – N, F	C0000871	GR0000108	10/09/2009
Redstone Crushing Gravel Hill	C0000027	GR0000636	11/03/2022
Redstone Quarry	C0000812	GR0000568	17/06/2020
Regional Recycle – C	C0000605	Not applicable	Not applicable
Repurpose It – C	C0000778	Not applicable	Not applicable
Repurpose It – N	C0000792	GR0000525	01/10/2019
Rigby's Coleraine	C0000088	GR0000609	30/04/2021
Roadstone Recycling Melton – C	C0000873	Not applicable	Not applicable
Roadstone Recycling Melton – N	C0000874	GR0000625	07/12/2021
SBI Cranbourne Quarries – F	C0000195	Not applicable	Not applicable
SBI Cranbourne Recycling – C	C0000773	Not applicable	Not applicable
SG Quarries Nerrena	C0000564	GR0000277	30/06/2015
Skipton Quarry	C0000091	GR0000523	30/09/2019
Statewide Pomonal Rd Stawell – H	C0000542	GR0000462	11/04/2019
Stirling Australia – C	C0000819	Not applicable	Not applicable
Stirling Australia – N	C0000820	GR0000108	10/09/2009
SUEZ ResourceCo – C	C0000598	Not applicable	Not applicable
SUEZ ResourceCo – N	C0000777	GR0000108	10/09/2009
Sunshine Groupe Brooklyn – C	C0000533	Not applicable	Not applicable
Sunshine Groupe Brooklyn – N	C0000585	GR0000337	31/03/2016
Tuckers Hill Quarry	C0000106	GR0000565	20/05/2020

Quarry Reference Specimen Register

Supplier	Supplier Number	List Number	Effective Date
Sibelco Beechworth – H	C0000289	No Current List	Not Applicable
Violet Town Quarries Leucitite	C0000095	GR0000474	04/04/2019
Violet Town Quarries Rhyodacite	C0000094	GR0000521	30/09/2019
Walkers Earthworks Gazette	C0000808	GR0000598	30/04/2021
Walsh Quarries Dunnstown	C0000096	GR0000626	13/12/2021
Walsh Quarries Learmonth	C0000097	GR0000467	04/04/2019
Waters Excavations Meringur – H	C0000686	Not Applicable	Not Applicable
Western Quarries Dunneworthy	C0000644	GR0000558	27/03/2020
Wheel-A-Waste Wonthaggi – C	C0000842	Not applicable	Not applicable
Whelan's Boucher Rd	C0000098	GR0000397	02/05/2017
Whelan's Bruthen	C0000100	GR0000627	09/12/2021
Whelan's Glenmaggie	C0000055	GR0000055	01/10/2007
Yarck Quarry	C0000639	GR0000342	22/06/2016
Yarra Valley Quarries	C0000102	GR0000510	07/08/2019
Youngs Quarries Naringal East – F	C0000880	Not Applicable	Not Applicable

NEW SOUTH WALES

Andrew Goldman Excavations - Tocumwal (NSW) - F	C0000800	Not applicable	Not applicable
Bald Hill Quarry – Holbrook (NSW)	C0000523	GR0000505	02/08/2019
Bald Hill Quarry – Tumbarumba (NSW)	C0000544	GR0000398	05/05/2017
Boral Culcairn (NSW)	C0000023	GR0000471	01/04/2019
Mawsons Berrigan (NSW)	C0000506	GR0000488	24/06/2019
Mawsons Broken Hill (NSW)	C0000519	GR0000201	19/07/2011
Schmidt Nimmitabel (NSW)	C0000090	GR0000400	23/05/2017

SOUTH AUSTRALIA

Boral Linwood (SA)	C0000466	GR0000386	08/02/2017
Boral Lobethal (SA)	C0000467	GR0000392	09/03/2017
Boral Mt McIntyre (SA)	C0000104	GR0000290	19/06/2015
Hallett Truro (SA)	C0000630	GR0000306	12/08/2015
Hanson Kanmantoo (SA)	C0000485	GR0000388	08/02/2017
Holcim Montacute (SA)	C0000474	GR0000532	18/10/2019
Kulpara Quarry (SA)	C0000559	GR0000384	06/02/2017
McLaren Vale Quarries (SA)	C0000502	GR0000385	02/02/2017
Southern Quarries (SA)	C0000587	GR0000303	15/09/2015

TASMANIA

Barren Knob Quarry Preston (TAS) – F	C0000872	Not applicable	Not applicable
BIS Talisker (TAS)	C0000748	GR0000423	05/02/2018
BIS Western Junction (TAS)	C0000655	GR0000445	13/12/2018
Boral Bridgewater (TAS)	C0000668	GR0000366	15/08/2016
Boral Flowery Gully (TAS)	C0000659	GR0000359	15/08/2016
Boral Launceston (TAS)	C0000656	GR0000431	29/08/2018
Boral Nook (TAS)	C0000663	GR0000355	15/08/2016
Boral Nook Recycling (TAS) – C	C0000867	Not Applicable	Not Applicable
Crezzco Exton (TAS)	C0000697	GR0000375	02/11/2016
Crezzco Meander (TAS)	C0000698	GR0000374	03/11/2016
Duggans Cradoc (TAS)	C0000669	GR0000376	04/11/2016
East Arm Quarry (TAS)	C0000728	GR0000620	06/10/2021
Gadtech Big Blue (TAS)	C0000868	GR0000618	07/09/2021
Gadtech Maydena (TAS)	C0000851	GR0000587	07/01/2021
Gadtech Nichols Rd Quarry Nubeena (TAS)	C0000849	GR0000586	05/01/2021
Gaspersic Heemskirk (TAS)	C0000794	GR0000527	14/10/2019
Gaspersic North Lyell/Queenstown (TAS)	C0000673	GR0000432	04/10/2018
Hanson Flagstaff Gully (TAS)	C0000670	GR0000542	21/11/2019
Hanson Launceston (TAS)	C0000657	GR0000429	09/04/2018
Hazell Bros Alanfield (TAS) – H	C0000725	GR0000404	14/06/2017
Hazell Bros Leslie Vale (TAS)	C0000667	GR0000348	15/08/2016
Hazell Bros Leslie Vale Hornfels (TAS)	C0000721	GR0000405	14/06/2017
Hazell Bros Long Hill (TAS)	C0000658	GR0000540	25/11/2019
Hazell Bros Mangalore (TAS)	C0000791	GR0000513	06/08/2019

Hazell Bros Raeburn Quarry (TAS)	C0000661	GR0000611	21/06/2021
Hazell Bros Tunbridge (TAS)	C0000671	GR0000365	15/08/2016
Highland Stone & Aggregate Arthurs Lake (TAS)	C0000735	GR0000424	12/02/2018
Hirt Quarries Beulah (TAS)	C0000850	GR0000594	28/02/2021
Mt Calder Quarry (TAS)	C0000775	GR0000577	29/10/2020
Nabowla Quarries (TAS)	C0000754	GR0000426	28/03/2018
North East Excavations St Helens (TAS)	C0000675	GR0000362	15/08/2016
Orford Quarry (TAS)	C0000847	GR0000593	28/02/2021
Otta Group Derby (TAS)	C0000848	GR0000610	19/05/2021
Simmonds Hill Quarry (TAS)	C0000699	GR0000379	08/11/2016
St Helens Concrete Weldborough (TAS)	C0000858	GR0000614	17/08/2021
Stoodley Quarry (TAS)	C0000665	GR0000357	15/08/2016
Treloar Moina (TAS) – F	C0000786	Not Applicable	Not Applicable
Treloar Shackley Hill (TAS)	C0000666	GR0000358	15/08/2016
Ulverstone Quarry (TAS)	C0000662	GR0000456	15/05/2019
Van Diemen Quarries Birralelee (TAS)	C0000793	GR0000533	04/11/2019
Van Diemen Quarries Mt Oriel (TAS) – K	C0000696	GR0000482	15/05/2019
Van Diemen Quarries Valleyfield Rd / Quarry Hill (TAS)	C0000694	GR0000370	11/10/2016
Van Diemen Quarries Ridgley (TAS)	C0000664	GR0000367	15/08/2016
Wallaroo Lilla Villa Quarry (TAS)	C0000700	GR0000406	01/06/2017
Walters Nook (TAS) – K	C0000674	GR0000368	15/08/2016

Revision History

To receive the publication in an accessible format, please request on Department of Transport online message feedback form.

Version	Date	Clause	Description of Change
1.0	June 2013	All	First version – initial release
1.1	March 2014	Appendix A	Updated list numbers and added new suppliers to reflect changes
1.2	April 2016	Appendix A	Minor layout change Updated list numbers and added new suppliers to reflect changes
1.3	June 2017	Appendix A	Updated list numbers and included Tasmanian Quarries Minor layout change
1.4	October 2019	Appendix A	Updated list numbers to reflect changes in ownership and added new suppliers
2.0	April 2022	Clause 3 Clause 4 Appendix A	Updated Clause 3 to reflect changes to content of reference specimen lists DoT authorised agents added to confidentiality Clause 4 Updated list numbers and added new suppliers to reflect changes Updated whole document to new DoT template

Additional Notes on Current Version

Clause 3: Updated to reflect additional information now contained in reference specimen lists

Appendix A: Updated list numbers to reflect changes/updates, added new suppliers

Contact Details

Assets and Engineering

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