

VERMONT AGENCY OF TRANSPORTATION

APPROVED AGGREGATE SOURCE LIST

Guidance Document

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Purpose:

This guide defines the process the Agency will employ to approve aggregate sources for use on Agency projects. Approval of an aggregate source does not indicate acceptance of any materials originating from that source.

Definition of an Approved Aggregate Source:

An aggregate source is approved for use on Agency projects when the Agency has determined that the source is capable of producing materials that are in conformance with the requirements detailed in the current edition of the Vermont Agency of Transportation's Standard Specifications for Construction.

Approved Aggregate Source List (AASL):

The Approved Aggregate Source List (AASL) is a list of aggregate sources that the Agency has approved. This list will indicate each material specification the aggregate source has been approved to supply. This list will be amended as necessary to add new sources to the list as they become approved. Expiration dates included on the list are determined by the Agency and take into account the level of risk in regard to the source and the material. The AASL will be published on the VTrans Geotechnical Laboratory Services webpage:

<http://vtrans.vermont.gov/highway/construct-material/geotech/lab-services>

Aggregate Source Approval Process:

The following details the steps needed for an aggregate source to become approved. There are two categories under which the aggregate source may be addressed: New or Existing. The process to get approved is similar for each, however the requirements and timeframe for approval are different. The Agency will determine under which category (new or existing) an aggregate source falls based on the available data for the source in question, as follows:

New Source: No historical data from past project use and source is not on current list

Existing Source: Source has historical data from past project use and/or the source is currently on the list

Submittal Process:

1. Producer (owner/operator of source) completes the '**VTrans Aggregate Source Approval Request Form**' located on the VTrans Geotechnical Laboratory Services webpage (link above).
2. Producer provides VTrans with completed request form and one of the following:
 - a. Test results from a third party qualified laboratory (meeting the requirements of the Agency's Qualified Laboratory Program) a minimum of 2 weeks prior to proposed material use. Test results shall be dated as specified in the note in Appendix A for Tables 1 and 2. The Producer must retain a split sample of the tested material during the evaluation period.

- b. A representative sample(s) for testing. The sample(s) shall meet sampling size requirements as specified in AASHTO T-2 and shown in Appendix B and shall be provided a minimum of 90 days prior to proposed material use for a new source and 30 days prior for an existing source.

See Tables 1 and 2 in Appendix A for a table of tests required for various construction materials. The specific tests required for approval depend on the material specification, as found in the current edition of the VTrans Standard Specifications for Construction, and whether the source is considered 'New' or 'Existing'. Use this guidance when filling out the request form.

3. Submit the 'VTrans Aggregate Source Approval Request Form' and accompanying test results or sample to:

VTrans Central Laboratory
2178 Airport Rd., Unit-B
Berlin VT, 05641
(802) 828-2561
Hours: Mon – Fri, 7:00 AM – 3:30 PM
AOT.AggregateSources@vermont.gov

Approval Process

1. Test results are evaluated by VTrans for conformance with the applicable sections of the current edition of the Standard Specifications for Construction. If test results are conforming, then the source is approved and added to the AASL for the material specifications for which it was evaluated. A notice will be sent to the contact email address on the request form notifying them of approval.
2. Once approved and placed on the AASL, each approved source will receive an expiration date (month/year) and a notification of approval. For an existing source, the expiration date will be updated, and a notification of approval sent. The notice of approval will come via email to the contact information provided on the request form.

Responsibilities:

VTrans shall be responsible for implementing, maintaining, and updating the AASL as well as responding to customer questions/inquiries. The Producer shall be responsible for ensuring that all pertinent information needed to be considered for aggregate source approval shall be provided to VTrans in the timeframes requested. Producers that wish to stay current on the AASL shall be responsible for knowing their source(s) expiration date and following these guidelines for reapproval. The Contractor shall provide to the State only aggregates from sources that have been approved for use in that material as listed on the AASL.

APPENDIX A

Table 1: Tests Applicable for New Source:

	Unbound Aggregate	Bituminous Concrete	Structural Concrete
Petrographic Analysis ASTM C 295 *	X	X	X
Alkali Silica Reactivity AASHTO T-303 *			X
Freeze/Thaw AASHTO T-161 *			X
Soundness AASHTO T-104 * (sodium sulfate option)		X	X
LA Wear AASHTO T-96	X	X	X
Fractured Faces ASTM D 5821	X	X	X
Thin & Elongated ASTM D 4791	X	X	X
Organic Impurities AASHTO T-21			X

Table 2: Tests Applicable for Existing Source:

	Unbound Aggregate	Bituminous Concrete	Structural Concrete
LA Wear AASHTO T-96	X	X	X
Fractured Faces ASTM D 5821	X	X	X
Thin & Elongated ASTM D 4791	X	X	X
Organic Impurities AASHTO T-21			X

Note: All test results shall be dated no more than 1 year from time of submission, except for the tests marked with a (*), which shall be dated no more than 10 years from time of submission.

APPENDIX B**Table 1. Sample Size Requirements**

Size of Aggregate Field Sample (AASHTO T-2)	
Nominal Maximum Size of Aggregate in. (mm)	Approximate Minimum Mass of Field Sample lb (kg)
#4 (4.75 mm) or <	25 lbs. (10 kg)
3/8 in. (9.5 mm)	25 lbs. (10 kg)
1/2 in. (12.5 mm)	35 lbs. (15 kg)
3/4 in. (19.0 mm)	55 lbs. (25 kg)
1 in. (25.0 mm)	110 lbs. (50 kg)
1 1/2 in. (37.50 mm)	165 lbs. (75 kg)
2 in. (50 mm) or >	220 lbs. (100 kg)