

Administration and Inspection Activities for Aggregates - Base, Subbase, Select Subgrade, and Backfill Material

(As Specified in OPSS 1010 and SSP 110S06)

1010.01 SCOPE

This CAIS covers the construction administration and inspection requirements for granular aggregate materials for use in subgrade, subbase, base, gravel surface course, shouldering and bedding and backfill to sewers, culverts, and other structures as specified in OPSS 1010, April 2013 and SSP 110S06, June 2020.

1010.02 REFERENCES

This CAIS refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Material:

OPSS 1010 Aggregates - Base, Subbase, Select Subgrade, and Backfill Material

MTO Standard Special Provisions

SSP 110S06 Amendment to OPSS 1010, April 2013

Construction Administration and Inspection Specifications (CAIS):

CAIS 100 MTO Contract Administration General Conditions (CAGC)
CAIS 1001 Aggregates - General

MTO Forms:

PH-D-001-A Granular A Gradation Computation Acceptance & Payment Adjustment Sheet
PH-D-001-B Granular B Types I, II & III Gradation Computation Acceptance & Payment
Adjustment Sheet
PH-D-001-M Granular M Gradation Computation Acceptance & Payment Adjustment Sheet
PH-D-001-O Granular O Gradation Computation Acceptance & Payment Adjustment Sheet
PH-D-001-SSM SSM Gradation Computation Acceptance & Payment Adjustment Sheet
PH-D-010 Aggregate Sample Data Sheet

1010.03 DEFINITIONS

For the purpose of this CAIS, the definitions shall be as specified in OPSS 1010.

1010.04 DESIGN AND SUBMISSION REQUIREMENTS - Not Used

1010.05 MATERIALS**1010.05.01 General**

Administrative Activities:

1	-	When reclaimed asphalt pavement (RAP), post-consumer glass or ceramic material is used, ensure that it is homogeneously blended by the Contractor in an acceptable manner.	-
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Inspection Activities:

1	-	Conduct visual inspection of material for contamination, including earth, humus, clay coatings, and clay lumps or fragments of any size or shape. Where contamination is observed, the material shall be considered deficient and managed according to the requirements specified elsewhere in the Contract Documents.	100%
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1010.05.02 Granular A and M

Administrative Activities:

1	M	Check if the source type is permitted.	-
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Inspection Activities:

1	-	Check the purpose and location of the application.	25%
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1010.05.03 Granular B

Administrative Activities:

1	M	Check if the source type is permitted.	-
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1010.05.04 Granular O

Administrative Activities:

1	M	Check if the source type is permitted.	-
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1010.05.05 Granular SSM

Administrative Activities:

1	M	Check if the source type is permitted.	-
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1010.06 EQUIPMENT - Not Used

1010.07 PRODUCTION - Not Available

1010.08 QUALITY ASSURANCE

1010.08.01 General

Administrative Activities:

1	-	Determine if QA testing for physical properties can be waived due to limited quantity.	-
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1010.08.02 Sampling

Inspection Activities:

1	M	Monitor QA sampling carried out by the Contractor.	100%
2	M	Check that the required QA samples are taken as specified. Deliver the samples with care to the appropriate laboratories.	100%

Administrative Activities:

1	M	Determine a suitable location from which QA samples can be taken.	-
2	-	When it is not possible to take road or delivery samples, determine in consultation with the Owner, if samples of compacted material are acceptable.	-
3	M	Establish lots for sampling and testing as specified.	-

1010.08.02.02 Sample Size

Inspection Activities:

1	M	Check if the mass of each QA sample meets the specified requirements.	100%
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1010.08.03 Physical Properties

Administrative Activities:

1	M	Lot schedule shall be as specified.	-
2	-	Determine which physical property requirements are applicable.	-

1010.08.03.03 Acceptance of Physical Properties

Administrative Activities:

1	M	Review test results from the QA laboratory for acceptance as specified.	-
2	M	Notify the Contractor of acceptance at full price, at a reduced price, or rejected lot.	-

1010.08.04 Production Properties

Administrative Activities:

1	M	For each tender item, estimate the quantities of granular materials obtained from each different source or process. Then, for each of those individual sources or processes, identify the number and size of each lot to be sampled and tested using the lot schedule shown in Table 4 of the specification.	-
2	-	Receive notification about a lot not being completed before the first sampling within that lot. Adjust the subplot sizes to accommodate the reduced tonnage. All lots shall be deemed to be complete at the end of each calendar year.	-

1010.08.04.03 Acceptance of Production Properties**1010.08.04.03.02 Acceptance Based on LS-602 and LS-607**

Administrative Activities:

1	M	Review test results from the QA laboratory for acceptance as specified.	-
2	-	For test results carried out according to LS-602 and LS-607, compute all lot means and ranges to one decimal place and report them on the appropriate MTO forms as specified.	-
3	M	Notify the Contractor of acceptance based on LS-602 and LS-607 at full price, at a reduced price, or rejected lot.	-

1010.08.04.03.03 Acceptance Based on LS-617 or LS-621

Administrative Activities:

1	M	Review test results from the QA laboratory for acceptance as specified.	-
2	M	Notify the Contractor if the material meets the specification or is considered deficient.	-

1010.08.05 Referee Testing

Inspection Activities:

1	M	Perform the referee workflow as specified in CAIS 100, MTO Contract Administration General Conditions (CAGC).	100%
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Administrative Activities:

1	M	Check that a written request to invoke referee testing is received as specified.	-
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1010.09 OWNER PURCHASE OF MATERIAL - Not Used

WARRANT: Always with OPSS 1010, Material Specification for Aggregates - Base, Subbase, Select Subgrade, and Backfill Material.