

Aggregate Source Information System (ASIS)
(12/02/08)

Field Name	Description
SOURCENUM	Each aggregate source is assigned a unique SOURCE NUMBER, the first two digits being a sequential county number.
STATUS	ASIS source status classification ⁽¹⁾ see page 4
STATUS2	Secondary status used for further classification of STATUS ⁽¹⁾ see page 4
COUNTY	County name
SEC	PLS Section
TWN	PLS Township
RNG	PLS Range
RDIR	PLS Range direction
PM	Principal Meridian (UTM)
LEGALDESC	PLS Legal description
NEARESTCIT	Nearest city
OWNER	Surface landowner
SOURCENAME	Name of source
DISTRICT	Mn/DOT district
COMMENTS	General comments
DATEREWISE	Date ASIS record revised
LEASEEXPDA	Mn/DOT lease expiration date
POSSIBLELE	Lease expiration date if option to renew lease is taken
ORIGINALSU	Date of initial pit inspection by Mn/DOT
LASTCONDSU	Date of latest pit/quarry condition information
CONDSURVBY	Source of latest pit/quarry condition information
DEPLETED	Source depleted
UNAVAILABL	The [UNAVAILABL] field/column is no longer used (3/13/07).
SHPOCLEARA	State Historical Preservation Office clearance. Y = Pit has been cleared by SHPO
CLASS	A = Igneous or Quartzite, B = Carbonate or other crushed rock, C = Natural Gravel
CONCSOURCE	Prospective concrete aggregate. May have been evaluated by Mn/DOT Concrete Office
MCLASS1	Primary Mn/DOT material class
QUAN1	An estimate of quantity of primary material ⁽²⁾ see page 4
COSTCYM1	Royalty rate (US dollars): cubic yards, loose volume (Vehicle Measure)
YRPRICECL1	Year cost for primary material updated
MCLASS2	Secondary Mn/DOT material class
QUAN2	An estimate of quantity of secondary material ⁽²⁾ see page 4
COSTCYM2	Royalty rate (US dollars): cubic yards, loose volume (Vehicle Measure)
YRPRICECL2	Year cost for secondary material updated
MCLASS3	Third Mn/DOT material class
QUAN3	An estimate of quantity of third material ⁽²⁾ see page 4
COSTCYM3	Royalty rate (US dollars): cubic yards, loose volume (Vehicle Measure)
YRPRICECL3	Year cost for third material updated

COMPDATE	Computation date for estimated quantities of material
COMPSBY	Person performing computations
MATWDDATE	Date of material withdraw
PCTSTRIPPI	Estimated percentage of stripping (overburden)
STRIPTXT	Descriptive text for stripping or overburden
PCTBELH2O1	Estimated percentage of material below groundwater table
PCTBELH2O2	Estimated percentage of secondary material below groundwater table
SH4LO	Lowest value for % shale @ minus 4 mesh
SH4HI	Highest value for % shale @ minus 4 mesh
MINUS4AVG	Average value for % shale @ minus 4 mesh
MINUS4OF	Number of shale @ minus 4 mesh samples
SHPLUS4LO	Lowest value for % shale @ plus 4 mesh
SHPLUS4HI	Highest value for % shale @ plus 4 mesh
PLUS4AVG	Average value for % shale @ plus 4 mesh
PLUS4OF	Number of shale @ plus 4 mesh samples
MS3_2TO1	Magnesium Sulfate (Soundness), Size range 1-1/2" to 1"
MS1TO3_4	Magnesium Sulfate (Soundness), Size range 1" to 3/4"
MS3_4TO1_2	Magnesium Sulfate (Soundness), Size range 3/4" to 1/2"
MS1_2TO3_8	Magnesium Sulfate (Soundness), Size range 1/2" to 3/8"
MS3_8TO4	Magnesium Sulfate (Soundness), Size range 3/8" to #4
LARLO	Lowest Los Angeles Rattler value
LARHI	Highest Los Angeles Rattler value
LARAVG	Average Los Angeles Rattler value
LAROF	Number of Los Angeles Rattler tests
TOTALSHALE	Percent total shale by mass
TOTALSPALL	Percent total spall by mass
UCHERT	Percentage of unsound chert
UCHERTO	Number of unsound chert tests
IOXIDE	Percent iron oxide
IOXIDE	Number of iron oxide tests
GEOLCOM	Geological comments
PCTLIMESTO	Percent limestone
PCTSANDSTO	Percent sandstone
PCTSOFTROC	Percent soft rock
PCTHARDROC	Percent hard rock

PCTDISINT	Percent disintegrated rock
PCTARGILIT	Percent argillaceous rock
PCTSLATE	Percent slate
PCTINSRES	Percent insoluble test results
SGNUMS	Historical sand and gravel test numbers
PASS3QTR	Percent passing 3/4" sieve
PASSNUM4	Percent passing # 4 U.S. sieve
PASSNUM10	Percent passing # 10 U.S. sieve
PASSNUM40	Percent passing # 40 U.S. sieve
PASSNUM200	Percent passing # 200 U.S. sieve
ACREAGE	Total acreage of source
QUARRYNUM	Quarry number
OLDREFNUM	Old reference number
OLDREFMOD	Old reference number modifier
QTR	Minnesota Geological Survey - Quartersection subdivision
GEOCODE	Geographic code based on legal description (Public Land Survey)
MAP	County pit sheet map number that Source is located on
UTM_X	UTM Zone 15N, x-coordinate
UTM_Y	UTM Zone 15N, y-coordinate

(1) STATUS CLASSIFICATION

P – Aggregate Pit (Prospected): Indicates a pit that has been prospected and/or leased by Mn/DOT. A "P" classification does not necessarily imply that the source is actually producing aggregate at the present time. In fact, it may only indicate an aggregate deposit that was at one time leased by Mn/DOT and that the Aggregate Unit has tested, but from which no material has ever been excavated.

O – Aggregate Pit (Other): Indicates a location that, while assigned a number, has never been drilled and sampled by the Aggregate Unit.

I – Inactive Aggregate Source: Indicates a source that is either depleted or at least unavailable for future use. (If future circumstances make such sources available, the status may be changed).

M - Aggregate Pit – Mn/DOT: Indicates an aggregate source that is owned and managed by the Minnesota Department of Transportation (Mn/DOT).

Q - Rock Quarry: Indicates a bedrock quarry. Rock type depends on area geology, but most are limestone/dolostone and are located in Southeastern Minnesota. All quarries in Minnesota are privately owned.

C - Commercial Aggregate: Indicates an identified commercial source of aggregate on property that has never been prospected (unless otherwise specified) by Mn/DOT, but that has been assigned a source number in order to facilitate tracking of test results when the source is used on Mn/DOT or county projects. These sources are often used for concrete aggregate.

MRW – Mn/DOT Pit R/W: Indicates an Mn/DOT owned aggregate pit that is now located in a Right-of-Way.

- (2) Cubic yards, bank measure. Quantities may be different than shown. Material may have been removed without adjustments made. For current status, site should be visited and resurveyed and/or test-drilled if necessary.
- (3) Qualities are typically for test-drilling prospect samples, only.