

Aggregate Source Information System (ASIS)

Metadata

FIELD NAME	DESCRIPTION
SOURCE #	Each aggregate source is assigned a unique SOURCE NUMBER, the first two digits being a sequential county number.
STATUS	ASIS source status classification ⁽¹⁾ as of last record update (see date revised field)
STAT-2	Secondary status ⁽¹⁾
Class	A = Granite or Quartzite, B = Carbonate, C = Natural Gravel
SHPO Clearance	State Historical Preservation Office clearance. Y = Pit has been cleared by SHPO
UTM_X	UTM x-coordinate
UTM_Y	UTM y-coordinate
Utm date	Date of conversion to UTM
COUNTY	County name
OWNER	Surface landowner as of last record revision
DISTRICT	Mn/DOT district
TWN	PLS Township
RDIR	PLS Range direction
RNG	PLS Range
SEC	PLS Section
LEGAL DESC	PLS Legal description
PM	Principal Meridian (UTM)

(1) Status Classification

A - Gravel Pit - Active: Indicates an active office file in the Aggregate Unit office. An "active" 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.

I - Gravel Pit - Inactive: Indicates an inactive office file in the Aggregate Unit office, where the source is either depleted or at least unavailable for further use by Mn/DOT. (If future circumstances make such sources available, the status may be changed to "Active").

N - Gravel Pit - No Data: Indicates a location which, while assigned a number, has never been drilled and sampled by the Aggregate Unit.

M - Gravel Pit - Mn/DOT: Indicates an aggregate source which 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 which has never been leased (or owned) by Mn/DOT, but which 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.

Mn/DOT
Aggregate Unit
11/23/04

FIELD NAME	DESCRIPTION
LEASE EXP DATE	Mn/DOT lease expiration date
Possible Lease Date	Lease expiration date if option to renew lease is taken
ORIGINAL SURVEY	Date of initial inspection by Aggregate Unit
LAST COND SURVEY	Date of latest pit inspection by Mn/DOT Aggregate Unit
SAME ?	Y = Source (pit/quarry) is in same condition as last inspection date
C. SURVEY BY	Name of person inspecting Source (pit/quarry)
INSTRUMENT SURVEY	If Y, Mn/DOT Survey Crew performed survey of Source (pit/quarry)
DATE REVISED	Date ASIS record revised
CONC SOURCE	Prospective concrete aggregate. May have been evaluated by Mn/DOT Concrete Office.
NEAREST CITY	Nearest city
SH-4lo	Lowest value for % shale @ minus 4 mesh
SH-4hi	Highest value for % shale @ minus 4 mesh
-4 AVG	Average value for % shale @ minus 4 mesh
-4 OF	Number of shale @ minus 4 mesh samples
Mag S % 1 1/2-1	Magnesium Sulfate (Soundness), Size range 1-1/2" to 1"
Mag S % 1-3/4	Magnesium Sulfate (Soundness), Size range 1" to 3/4"
Mag S % 3/4-1/2	Magnesium Sulfate (Soundness), Size range 3/4" to 1/2"
Mag S % 1/2-3/8	Magnesium Sulfate (Soundness), Size range 1/2" to 3/8"
Mag S % 3/8-#4	Magnesium Sulfate (Soundness), Size range 3/8" to #4
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
LAR LO	Lowest Los Angeles Rattler value
LAR HI	Highest Los Angeles Rattler value
LAR AVG	Average Los Angeles Rattler value
LAR OF	Number of Los Angeles Rattler tests
TOTAL SHALE	Percent total shale by mass
TOTAL SPALL	Percent total spall by mass
Uchert	Percentage of unsound chert
Uchertof	Number of unsound chert tests

FIELD NAME	DESCRIPTION
I OXIDE	Percent iron oxide
I OXIDE OF	Number of iron oxide tests
MClass1	Primary Mn/DOT material class
QUAN1	An estimate of quantity of primary material
%bel-h2O-1	Estimated percentage of material below groundwater table
MClass2	Secondary Mn/DOT material class
QUAN2	An estimate of quantity of secondary material
M Class 3	Third Mn/DOT material class
%bel-h2O-2	Estimated percentage of secondary material below groundwater table
% STRIPPING	Estimated percentage of stripping (overburden)
STRIP TEXT	Descriptive text for stripping or overburden
GEOL COM	Geological comments
% Limestone	Percent limestone
% Sandstone	Percent sandstone
% Soft Rock	Percent soft rock
% Hard Rock	Percent hard rock
% Disint	Percent disintegrated rock
% Argillite	Percent argillaceous rock
% Slate	Percent slate
ACREAGE	Total acreage of Mn/DOT-owned source
COMMENTS	General comments
COMP DATE	Computation date for estimated quantities of material
COMPS BY	Person performing computations
\$/CU.YD LV M Class 1	Royalty rate paid by Mn/DOT per lease agreement (Vehicle Measure)
\$/CU.YD LV M Class 2	Royalty rate paid by Mn/DOT per lease agreement (Vehicle Measure)
\$/CU.YD LV M Class 3	Royalty rate paid by Mn/DOT per lease agreement (Vehicle Measure)
Ins. Residue	Percent insoluble test results
QUARRY #	Quarry number
OLD REF #	Old reference number
OLD REF MOD	Old reference number modifier
UNAVAILABLE	Source unavailable for use as of last record update

FIELD NAME	DESCRIPTION
S & G Numbers	Historical sand and gravel test numbers
DEPLETED	Source depleted
Photo Date	Air photo date
QTR	Minnesota Geological Survey - Quartersection subdivision
GEOCODE	Geographic code based on legal description (Public Land Survey)
R/W or Building Site	Pit on Mn/DOT Right-of-Way or Building on pit
MAT W/D Date	Date of material withdraw
3/4	Percent passing 3/4" sieve
# 4	Percent passing # 4 U.S. sieve
# 10	Percent passing # 10 U.S. sieve
# 40	Percent passing # 40 U.S. sieve
# 200	Percent passing # 200 U.S. sieve