



## MATERIAL GRAPHICS

|                                                                                                                                                                     |                                                                                                                                                                 |                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  AGGLOMERATE (AGGLOMERATE)                                                          |  CLAYSTONE (CLAYSTONE)                                                         |  GW - Well Graded GRAVEL (GW)                                                      |
|  ANDESITE, TRACHYTE, LATITE, TRACHYANDESITE (ANDESITE)                              |  CL-CI - Low to Medium Plasticity CLAY (CL-CI)                                 |  GW-GC - Well Graded GRAVEL to Clayey GRAVEL (GW-GC)                               |
|  ANHYDRITE (ANHYDRITE)                                                              |  CL-ML - Low Plasticity CLAY to Low Plasticity SILT (CL-ML)                    |  GW-GM - Well Graded GRAVEL to Silty GRAVEL (GW-GM)                                |
|  APLITE (APLITE)                                                                    |  CL-OL - Low Plasticity CLAY to Low Plasticity ORGANIC CLAYS and SILTS (CL-OL) |  GYPSUM (GYPSUM)                                                                   |
|  ARGILLITE, ARGILLACEOUS LIMESTONE (ARGILLITE)                                      |  COAL (COAL)                                                                   |  HALITE (HALITE)                                                                   |
|  ARKOSE (ARKOSE)                                                                    |  COAL LIGNITE (COAL LIGNITE)                                                   |  Hornfels (HORNFEL)                                                                |
|  Asphaltic Concrete (ASPHALTIC CONCRETE)                                            |  CONCRETE (CONCRETE)                                                           |  IGNUMBRITE (IGNUMBRITE)                                                           |
|  With Cobbles and Boulders (B)                                                      |  CONGLOMERATE (CONGLOMERATE)                                                   |  INTERBEDDED MUDSTONE & SANDSTONE (INTERBEDDED MUDSTONE & SANDSTONE)               |
|  BASALT (BASALT)                                                                    |  CORAL (CORAL)                                                                 |  INTERBEDDED MUDSTONE & SILTSTONE (INTERBEDDED MUDSTONE & SILTSTONE)               |
|  BASALTIC AGGLOMERATE (BASALTIC AGGLOMERATE)                                        |  CORE LOSS (CORE LOSS)                                                         |  INTERBEDDED SILTSTONE & SANDSTONE (INTERBEDDED SILTSTONE & SANDSTONE)             |
|  BOULDERS, COBBLES (BB)                                                             |  CRUSHED SANDSTONE (CRUSHED SANDSTONE)                                         |  IRONSTONE (IRONSTONE)                                                             |
|  BRECCIA (BRECCIA)                                                                  |  DACITE, RHYOLITE (DACITE)                                                     |  LENSES (LENSES)                                                                   |
|  Brecciated (BRECCIATED)                                                            |  DIORITE, SYNITE (DIORITE)                                                     |  LENSES - SANDSTONE (LENSES SANDSTONE)                                             |
|  Clayey (C)                                                                         |  DOLERITE (DOLERITE)                                                           |  LENSES - SILTSTONE (LENSES SILTSTONE)                                             |
|  CALCARENITE (CALCARENITE)                                                        |  DOLOMITE (DOLOMITE)                                                         |  LIGNITE (LIGNITE)                                                               |
|  Calcareous (CALCAREOUS)                                                          |  DOLOMITIC LIMESTONE (DOLOMITIC LIMESTONE)                                   |  LIMESTONE (LIMESTONE)                                                           |
|  CALCILUTITE (CALCILUTITE)                                                        |  FERRICRETE (FERRICRETE)                                                     |  Silty (M)                                                                       |
|  CALCIRUDITE (CALCIRUDITE)                                                        |  Ferruginous, iron stained (FERRUGINOUS)                                     |  MARBLE (MARBLE)                                                                 |
|  CALCISILTITE (CALCISILTITE)                                                      |  FILL (FILL)                                                                 |  METAMORPHOSED LIMESTONE (META LIMESTONE)                                        |
|  Calcrete (CALCRETE)                                                              |  FLINT (FLINT)                                                               |  Metamorphic rocks - Regional (Amphibolite, Magnesite, Tremolite) (METAMORPHIC)  |
|  Carbonaceous (CARBONACEOUS)                                                      |  FOSSILS (FOSSILS)                                                           |  Metamorphic Rocks - Contact (METAMORPHIC CONTACT)                               |
|  CH - High Plasticity CLAY (CH)                                                   |  Gravelly (G)                                                                |  METASEDIMENTS (METASEDIMENTS)                                                   |
|  CHALK (CHALK)                                                                    |  GABBRO (GABBRO)                                                             |  MH - High Plasticity SILT (MH)                                                  |
|  CHERT (CHERT)                                                                    |  GC - Clayey GRAVEL (GC)                                                     |  MH-OH - High Plasticity SILT to High Plasticity ORGANIC CLAYS and SILTS (MH-OH) |
|  CHERTY (CHERTY)                                                                  |  GC-GM - Clayey GRAVEL to Silty GRAVEL (GC-GM)                               |  MICRODORITE, SYNITE (PORPHRITE, PORPHYRY) (MICRODORITE)                         |
|  CHERTY LIMESTONE (CHERTY LIMESTONE)                                              |  GM - Silty GRAVEL (GM)                                                      |  MICROGABBRO (DOLERITE) (MICROGABBRO)                                            |
|  CH-MH - High Plasticity CLAY to High Plasticity SILT (CH-MH)                     |  GNEISS (GNEISS)                                                             |  MICROGRANITE (GRANITE PORPHYRY, FELSITE) (MICROGRANITE)                         |
|  CH-OH - High Plasticity CLAY to High Plasticity ORGANIC CLAYS and SILTS (CH-OH)  |  GP - Poorly Graded GRAVEL (GP)                                              |  MIGMATITE (MIGMATITE)                                                           |
|  CI - Medium Plasticity CLAY (CI)                                                 |  GP-GC - Poorly Graded GRAVEL to Clayey GRAVEL (GP-GC)                       |  ML - Low Plasticity SILT (ML)                                                   |
|  CI-CH - Medium to High Plasticity CLAY (CI-CH)                                   |  GP-GM - Poorly Graded GRAVEL to Silty GRAVEL (GP-GM)                        |  ML-OL - Low Plasticity SILT to Low Plasticity ORGANIC CLAYS and SILTS (ML-OL)   |
|  CI-ML - Medium Plasticity CLAY to Low Plasticity SILT (CI-ML)                    |  GRANITE (GRANITE)                                                           |  MUDSTONE (MUDSTONE)                                                             |
|  CI-OL - Medium Plasticity CLAY to Low Plasticity ORGANIC CLAYS and SILTS (CI-OL) |  GRANULITE (GRANULITE)                                                       |  MUDSTONE & SILTSTONE (MUDSTONE & SILTSTONE)                                     |
|  CLAY (CL)                                                                        |  GREYWACKE (GREYWACKE)                                                       |  MYLONITE (MYLONITE)                                                             |

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|                                                                                    |                                                   |                                                                                     |                                                        |                                                                                       |                                                        |
|------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------|
|    | Organic (O)                                       |    | SBT 1 - Sensitive fine-grained (SBT1)                  |    | SLATE (SLATE)                                          |
|    | OBSIDIAN (OBSIDIAN)                               |    | SBT 2 - Clay - organic soil (SBT2)                     |    | SM - Silty SAND (SM)                                   |
|    | OH - High Plasticity ORGANIC CLAYS and SILTS (OH) |    | SBT 3 - Clays: clay to silty clay (SBT3)               |    | SP - Poorly Graded SAND (SP)                           |
|    | OL - Low Plasticity ORGANIC CLAYS and SILTS (OL)  |    | SBT 4 - Silt mixtures: clayey silt & silty clay (SBT4) |    | SP-SC - Poorly Graded SAND to Clayey SAND (SP-SC)      |
|    | OOLITIC (OOLITIC)                                 |    | SBT 5 - Sand mixtures: silty sand to sandy silt (SBT5) |    | SP-SM - Poorly Graded SAND to Silty SAND (SP-SM)       |
|    | PERIDOTITE (PERIDOTITE)                           |    | SBT 6 - Sands: clean sands to silty sands (SBT6)       |    | SW - Well Graded SAND (SW)                             |
|    | Phosphatic (PHOSPHATIC)                           |    | SBT 7 - Dense sand to gravelly sand (SBT7)             |    | SW - Well Graded SAND with cobbles and boulders (SW B) |
|    | PHYLLITE (PHYLLITE)                               |    | SBT 8 - Stiff sand to clayey sand (SBT8)               |    | SW-SC - Well Graded SAND to Clayey SAND (SW-SC)        |
|    | PEAT (PT)                                         |    | SBT 9 - Stiff fine-grained (SBT9)                      |    | SW-SM - Well Graded SAND to Silty SAND (SW-SM)         |
|    | PYROXENITE (PYROXENITE)                           |    | SC - Clayey SAND (SC)                                  |    | SYENITE (SYENITE)                                      |
|    | Quartz (QUARTZ)                                   |    | SCHIST (SCHIST)                                        |    | TALUS (TALUS)                                          |
|    | QUARTZITE (QUARTZITE)                             |    | SC-SM - Clayey SAND to Silty SAND (SC-SM)              |    | Tuffaceous (TUFFACEOUS)                                |
|    | RHYOLITE (RHYOLITE)                               |    | SERPENTINE, ECLOGITE (SERPENTINE)                      |    | Volcanic (VOLCANIC)                                    |
|   | ROOTS (ROOTS)                                     |   | SHALE (SHALE)                                          |   | VOLCANIC BRECCIA (VOLCANIC BRECCIA)                    |
|  | Sandy (S)                                         |  | SHALEY (SHALEY)                                        |  | VOLCANIC GLASS (VOLCANIC GLASS)                        |
|  | SALINE ROCKS (SALINE ROCKS)                       |  | SHELLS (SHELLS)                                        |  | WELDED TUFF (WELDED TUFF)                              |
|  | Some/scattered Sand (SAND SOME)                   |  | Siliceous (SILICEOUS)                                  |  | WOOD (WOOD)                                            |
|  | SANDSTONE (SANDSTONE)                             |  | SILTSTONE (SILTSTONE)                                  |                                                                                       |                                                        |
|  | SBT 0 - Undefined (SBT0)                          |  | SILTSTONE & SANDSTONE (SILTSTONE & SANDSTONE)          |                                                                                       |                                                        |