

AGS FORMAT 3RD EDITION

Appendix A

Guidance on the Data Dictionary

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This guidance is subdivided into two parts :

- a) Reproductions of the Data Dictionary for Key Groups, providing examples, amendments and notes. These have traditionally posed the greatest difficulties in use of the AGS format in Hong Kong. Groups **PROJ, **HOLE, **GEOL, **DETL, **WETH.
- b) Notes on the use of individual groups required for Field Work. These notes are either general notes on the group or specific to a particular field as shown.

Appendix A (i) Data Dictionary for Key Groups

| Group Name : PROJ | | - Project Information | | | |
|-------------------|-----------|-----------------------|--|---------------------------------------|------------|
| Status | Heading | Unit | Description | Example | |
| * | PROJ_ID | | Client's Unique Project Identifier | CE/97/12.43 | |
| | PROJ_NAME | | Project Title | Phase 1 Detailed Ground Investigation | |
| | PROJ_LOC | | Location of Site (Client Defined or Blank) | Tsuen Wan West | |
| | PROJ_CLNT | | Client Name | Highways Department | |
| | PROJ_CONT | | Contractors Name | Lam Geotechnics Ltd. | |
| | PROJ_ENG | | Consulting Engineer | Atkins China Ltd. | |
| | PROJ_MEMO | | General Project comments (Client Defined or Blank) ^{Note 1} | Lab/007 | <i>Rev</i> |
| | PROJ_DATE | dd/mm/yyyy | Date of production of data | 22/06/1998 | <i>Rev</i> |
| | PROJ_AGS | | AGS Issue Number | 3 | <i>New</i> |

Note 1 Recommended for linking to other data or datasets, eg laboratory testing

| Group Name : HOLE - Hole Information | | | | | |
|--------------------------------------|------------|------------|--|-------------------------------------|-----|
| Status | Heading | Unit | Description | Example | |
| * | HOLE_ID | | Exploratory hole or traverse name/ number ^{Note 1} | YUL/DH/034 ^{Note 2} | Rev |
| | HOLE_TYPE | | Type of exploratory hole | RC | Rev |
| | HOLE_NATE | m | Easting, Hong Kong Metric Grid 1980, of hole or start of traverse | 811607.75 | Rev |
| | HOLE_NATN | m | Northing, Hong Kong Metric Grid 1980, of hole or start of traverse | 819496.79 | Rev |
| | HOLE_GL | m | Ground level relative to Datum of hole or start of traverse | 16.23 | Rev |
| | HOLE_FDEP | m | Final depth of hole, above Principal Datum ^{Note 3} | 32.60 | |
| | HOLE_STAR | dd/mm/yyyy | Date of start of excavation | 18/03/1991 | |
| | HOLE_LOG | | Geologist | DPG | |
| | HOLE_REM | | General remarks on hole | Abandoned on engineer's instruction | Rev |
| | HOLE_ETRV | m | Easting, Hong Kong metric Grid 1980, of end of traverse | 523195 | New |
| | HOLE_NTRV | m | Northing, Hong Kong metric Grid 1980, of end of traverse | 178486 | New |
| | HOLE_LTRV | m | Ground level relative to datum of end of traverse | 9.67 | New |
| | HOLE_LETT | | Ordnance Survey letter grid reference ^{Note 4} | TQ 123 456 | |
| | HOLE_LOCKX | m | Local grid x co-ordinate ^{Note 4} | 565 | |
| | HOLE_LOCY | m | Local grid y co-ordinate ^{Note 4} | 421 | |
| | HOLE_LOCZ | m | Level to local datum ^{Note 4} | +106.6 | |
| | HOLE_ENDD | dd/mm/yyyy | Hole end date | 22/03/1991 | |
| | HOLE_BACD | dd/mm/yyyy | Hole backfill date | 22/03/1991 | |
| | HOLE_CREW | | Name of driller | A.B. Driller | |
| | HOLE_ORNT | deg | Orientation of hole or traverse (degrees from magnetic north) | 010 ^{Note 5} | Rev |
| | HOLE_INCL | deg | Inclination of hole or traverse (measured positively down from horizontal) | 65 | Rev |
| | HOLE_EXC | | Plant used | JCB - 3CX | Rev |
| | HOLE_SHOR | | Shoring/support used | None | |
| | HOLE_STAB | | Stability | Stable during excavation | |
| | HOLE_DIML | m | Trial pit or logged traverse length | 27.56 | Rev |
| | HOLE_DIMW | m | Trial pit or logged traverse width | 1.35 | Rev |
| | HOLE_LOCM | | Method of location | dGPS | New |
| | HOLE_LOCA | | Location sub division within project ^{Note 1} | SubStation 1 | New |
| | HOLE_CLST | | Hole cluster reference number | CLST01 | New |
| | ?HOLE_DLOG | dd/mm/yyyy | Date of Logging | 21/03/1991 | |
| | ?HOLE_CHEK | | Person responsible for checking log | GMP | |
| | ?HOLE_DCHK | dd/mm/yyyy | Date of Checking | 24/03/1991 | |
| | FILE_FSET | | Associated file reference | FS2 | New |

- Notes:
1. Client Defined.
 2. Must be unique for Project, no leading, embedded or trailing blanks.
 3. Not required for slope stripping.
 4. Not commonly used in Hong Kong.
 5. For Vertical Holes, field should be left blank (do not use "000")
 6. For angles measured to greater precision than 1 degree, report to 1 decimal place.

| Group Name : GEOL | | - Stratum Descriptions | | | |
|-------------------|-----------|------------------------|---|--|------------|
| Status | Heading | Unit | Description | Example | |
| * | HOLE_ID | | Exploratory hole name/number | M7 | <i>Rev</i> |
| * | GEOL_TOP | m | Depth to the TOP of stratum | 12.50 | |
| * | GEOL_BASE | m | Depth to the BASE of stratum | 15.00 | |
| | GEOL_DESC | | Lithological description of stratum (INTERPRETATION) | Medium dense, olive yellow (5Y 6/6) striped yellowish brown (10YR 5/6), clayey silty fine to medium SAND. (ALLUVIUM) | |
| | GEOL_LEG | | Legend code | SANDCZ | <i>Rev</i> |
| | GEOL_GEO1 | | Geology Code (Lithostratigraphic) | Q | <i>Rev</i> |
| | GEO_GEO2 | | | M1 | <i>New</i> |
| | GEOL_STAT | | Stratum reference shown on trial pit or traverse sketch | 1 | <i>Rev</i> |
| | FILE_FSET | | Associated file reference | FS4 | <i>New</i> |

Notes:

1. 3rd Edition Appendix 6 Section 8 describes options for use of *GEOL_GEO1, GEOL_LEG, and GEOL_STAT.

In HK we have adopted :

2. Field GEOL_GEO1 is a code for lithostratigraphic unit (if identified from logging). Follow notation from HK Geological Survey 1:100,000 scale geological maps (published 2000).
3. Field GEOL_LEG is a code that represents standard legend patterns (the code has no strict lithologic meaning). See standard abbreviations (Part III) which reflect requirements of GEO Term Contracts.
4. Field GEOL_GEO2 is a new additional code that can be used on a contract or site specific basis as required by the client.
5. Field GEOL_STAT is only used for trial pit "layers".
5. Field GEOL_TOP report to 2 decimal places.
6. Field GEOL_BASE report to 2 decimal places.

| Group Name : DETL | | - Stratum Detail Description | | | |
|-------------------|-----------|------------------------------|---|--|------------|
| Status | Heading | Unit | Description | Example | |
| * | HOLE_ID | | Exploratory hole name/number | M7 | <i>Rev</i> |
| * | DETL_TOP | m | Depth to the TOP of detail description | 41.90 | |
| * | DETL_BASE | m | Depth to the BASE of detail description | 42.00 | |
| | DETL_DESC | | Detail description | 41.90-42.00m: with occasional solution (voids <40mm) | <i>New</i> |

Notes

1. 3rd Edition – Appendix 6 Section 12 - The use of DREM and DETL
2. Only geological information to be filled in this group
3. Information such as "As sheet ___" and "End of ___" should not appear
4. For descriptions such as "At ___m" report the same depth in DETL_TOP and DETL_BASE
5. Field DETL_BASE Report to 2 decimal places
6. Field DETL_TOP Report to 2 decimal places

| Group Name : WETH - Weathering Grades | | | | |
|--|-----------|------|---|------------|
| Status | Heading | Unit | Description | Example |
| * | HOLE_ID | | Exploratory hole name/number | 6421/A |
| * | WETH_TOP | m | Depth to the TOP of weathering subdivision | 3.50 |
| * | WETH_BASE | m | Depth to the BASE of weathering subdivision | 3.95 |
| | WETH_GRAD | | Material weathering grade | IV |
| | WETH_REM | | Remarks, weathering system used | Geoguide 3 |

New

New

New

New

New

New

Notes

1. WETH intervals must match or exactly subdivide **GEOL intervals, they must not span across a strata boundary as defined in the GEOL group.
2. Do not put WETH grades into Group DETL.
3. Transition grades, or combined grades such as III/IV, are not recommended..

Appendix A (ii) Notes on the Use of Individual Groups required for Field Work.

Group **CDIA

1. Field CDIA_CDEP Report to 2 decimal places
2. Field CDIA_HOLE Report as External Casing diameter in mm. Do not use letter notation.

Group **CHIS (Chiselling Details)

1. Not generally used for HK drilling practice.

Group **CORE (Rotary Core Information)

1. Field CORE_TOP Report to 2 decimal places
2. Field CORE_BOT Report to 2 decimal places
3. Field CORE_PREC Do not add % Symbol
4. Field CORE_SREC Do not add % Symbol
5. Field CORE_RQD Do not add % Symbol
6. Field CORE_REM Report Type of Core barrel used

Group **DPRB (Dynamic Probe Test)

1. No special requirements

Group **DPRG (Dynamic Probe Test – General)

1. NB for each Dynamic Probe Test an associated Hole Group is required.

Group **DREM (Depth Related Remarks)

1. Field DREM_REM Do not report SPT results in this field

Group **FLSH (Rotary Core Flush Details)

1. If not on drillhole record no need to fill in (Drillhole templates may require amendment).

Group **FRAC (Fracture Spacing)

1. All data to be obtained directly from drillhole record.
2. Field FRAC_FI; the following terms may also be used in this field
 - NR (No recovery)
 - NI (non intact)
 - >20 (more than 20 fractures per metre)

Group **HDIA (Hole Diameter by Depth)

1. Field HDIA_HDEP Report to 2 decimal places

Group ** IDEN (In Situ Density Test)

1. Field IDEN_DPTH Report to 2 decimal places
2. Field IDEN_REM Report the standard to which the test was carried out i.e. GEO Report 36, Test 9.2.1
3. Field IDEN_IDEN Bulk Density – not deep. Report to 2 significant figures (HOKLAS Requirement)
4. Field IDEN_MC Bulk Density – not deep. Report to 2 significant figures (HOKLAS Requirement)

Group **IPRM (In Situ Permeability Test)

1. Field IPRM_IPRM Use Scientific Notation

Group **ISPT (Standard Penetration test Results)

1. Note particularly in the explanatory notes the AGS 3rd Edition.
2. Field ISPT_TOP Report to 2 decimal places

Group **IVAN (In Situ Vane Test)

1. Test results (Fields IVAN_IVAN and IVAN_IVAR) should be reported to 2 significant figures (BS1377) requirement) e.g. 6.7 or 10 (Units field is kPa)

Group **POBS (Piezometer Readings)

1. Report all depths below ground level or level given in *HOLE_GL (not below top of piezometer).

Group **PREF (Piezometer Installation Details)

No Special Requirements.

Group **PTIM (Hole Progress by Time)

1. If hole is dry report 'dry' in field PTIM_REM not in field PTIM_WAT

Group **PUMP (Pumping Test)

No Special Requirements.

Group **SAMP (Sample Reference Information)

1. Field SAMP_DESC Only report specific description for the sample being reported – otherwise leave blank
2. Field SAMP_REM Report sample recovery in this field – e.g. 70% recovery – should be coherent statement

Group **WSTK (Water Strike Details)

1. Not generally used in HK.