

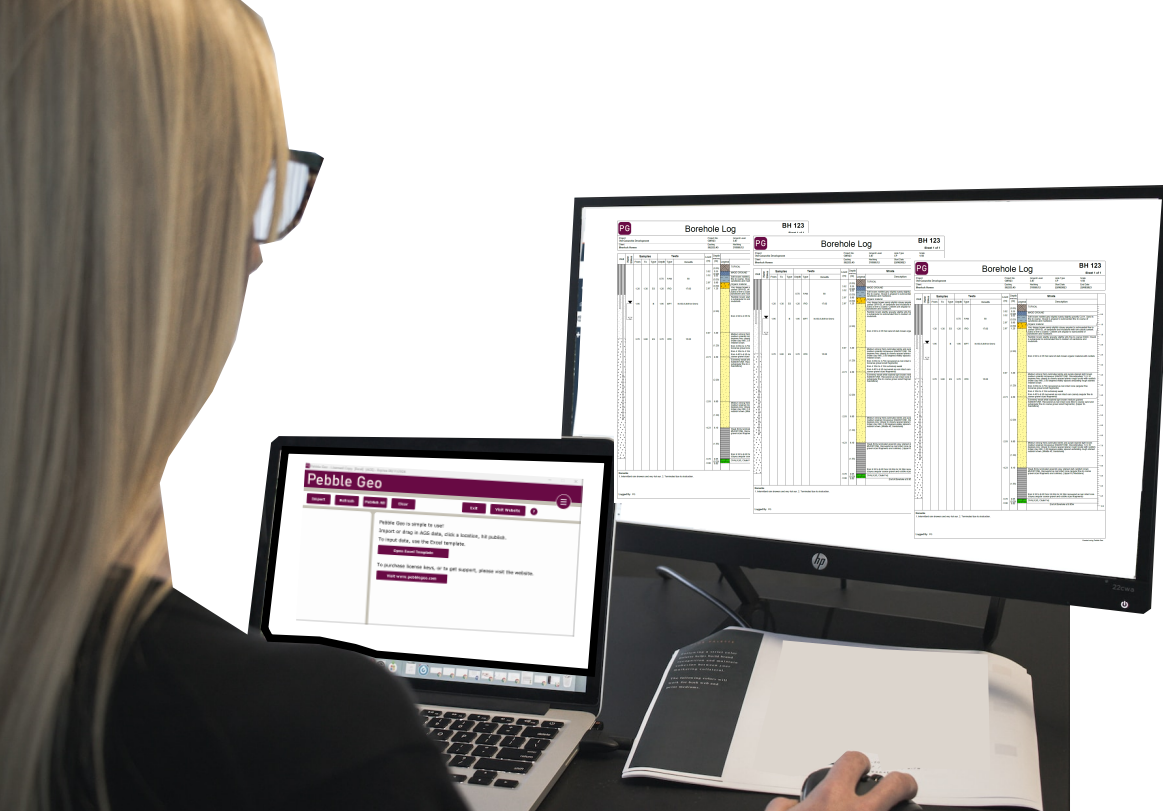
# Pebble Geo

Down To Earth Geoscience Software



[pebblegeo.com](http://pebblegeo.com)

Product Brochure v1.2



# Summary

Pebble Geo is simple desktop software for producing borehole logs from downhole site data.

Create beautiful PDF logs in minutes, with no complex setup or configuration, saving you time and money.

Pebble Geo targets Geotechnical and Environmental Contractors and Consultants who need to create borehole logs for soils and made ground.

It's perfect for small teams and businesses that don't require the complexity of the 'Big Software' vendor solutions.

# About

To try or buy Pebble Geo, please visit the website.

[www.pebblegeo.com](http://www.pebblegeo.com)

Pebble Geo is a joint venture between Sun Spiral Innovation and Tangary Solutions Ltd.

The Pebble Geo product team can be contacted using the email address below.

[hello@pebblegeo.com](mailto:hello@pebblegeo.com)



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# Capabilities

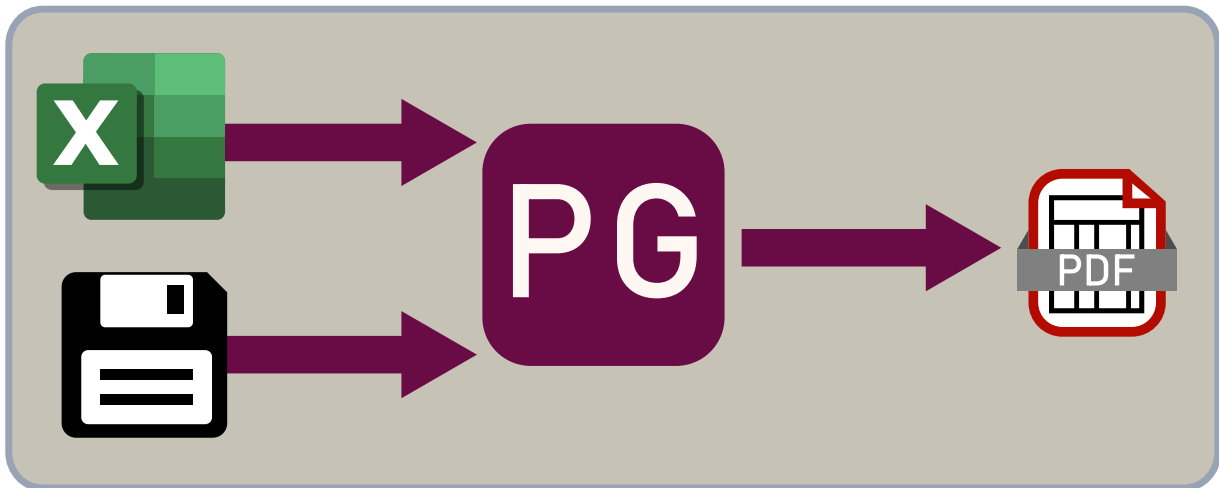
## Excel Data<sup>1</sup>

Input your own location data using the specially-designed Excel template, with sheets and fields based on the familiar AGS standard, and pre-populated lookups for descriptions, legend codes and more.

Location Details [LOCA]			
Use this sheet to enter borehole and trial pit locations. This sheet is equivalent to the LOCA sheet in the AGS 3.1 and 4.x data files.			
AGS	LOCA_ID	LOCA_TYPE	LOCA_NAT
AGS Type	ID	PA	2DP
Description	Location identifier	Type of activity	National grid Easting
Units			m
Example	BH1	BH	462129.00
Field Name	LOCA_ID	LOCA_TYPE	LOCA_NAT
1	BH 1	BH - Borehole	12
2	BH 2	BH - Borehole	23
3	TP 1	TP - Trial Pit	23
4			

## AGS Data<sup>2</sup>

With Pebble Geo, you can import AGS 3.1 and 4.x data files and publish logs within a few seconds. There's no strict validator to get in the way, so you won't have to waste time fixing imperfect files before seeing results.



## Logs

Standard borehole and trial pit log templates work straight out of the box, with no fiddly configuration or additional setup or design costs. Add your company logo, control vertical scale and colour, and publish individual locations, or entire datasets, to PDF format in a single action.

# Sample Output

PG Pebble Geo		Borehole Log				BH109							
123 Main Street Anytown Theshire AB12 3CD		Hole Type IP+CP+RC	Easting 431690.05	Northing 667747.45	Ground Level (m) 60.83	Scale 1:50							
Client National Roads		Contractor The Soil Contractors		Project Name A123 Roundabout Improvement		Project No. ABC123	Start Date 2019-05-02						
				End Date 2019-05-13		Consultant The Soil Engineers							
Inst/ Backfill	Water Levels	Samples and Tests		Coring				Frac	Level (m)	Depth (thickness) (m)	Strata		
		Depth (m)	Type/ Ref	Results	Core Run	TCR (%)	SCR (%)				RQD (%)	Legend	Description
		10.00	D 37	N=22 (13,11,6,7,5,4)					50.43	10.40		coarse GRAVEL of sandstone and mudstone with low cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone and mudstone.	
		10.20	SPT										
		10.20 - 10.70	B 38 D 39										
		11.00	D 40	N=31 (9,8,7,9,7,8)					49.13	11.70		Reddish brown slightly gravelly slightly silty fine to coarse SAND. Gravel is subangular to subrounded fine to medium of sandstone and mudstone.  Extremely weak brown mottled white medium grained SANDSTONE. Recovered as subangular coarse gravel and cobble sized fragments.	
		11.70	SPT										
		11.70 - 12.15 11.70 - 12.20 12.00	D 41 B 42 D 43										
		13.00	SPT	50/60mm (25/45,50/60)	13.00 14.00	94	53	0	25	47.83 47.65	13.00 (0.18) 13.18		Extremely weak white stained light brown medium grained SANDSTONE. Recovered as non intact core (fine to coarse sand and subangular fine to coarse gravel sized fragments).  Medium strong thinly laminated white stained light brown medium grained micaceous SANDSTONE. Discontinuities: 1) 10-20 degrees extremely closely to closely spaced undulating rough.
		13.00 - 13.11	D 44										
		13.00 - 14.00	C 45										
		14.00 - 15.00	C 46	15	14.00 15.00	90	65	11	15	47.17	13.66		from 13.18m to 13.35m with extremely closely spaced thin laminations of extremely weak light grey mudstone from 13.35m to 13.42m 1 No discontinuity 70 degrees undulating rough from 13.51m to 13.55m recovered as non intact core (angular fine to coarse gravel sized fragments) from 13.63m to 16.66m recovered as non intact core (angular fine to coarse gravel sized fragments)
		14.30 - 14.36	CS 46.1										
		15.00 - 16.00	C 47										
		15.64 - 15.74	CS 47.1	21	15.00 16.00	75	50	10	21	45.47	15.36		Medium strong thinly laminated white and purple stained light brown medium grained micaceous SANDSTONE. Discontinuities: 1) 0-10 degrees very closely to closely spaced planar rough locally with reddish brown clay infill. 2) 80 degrees widely spaced undulating rough stained reddish brown. from 13.90m to 13.94m recovered as non intact core (angular fine to coarse gravel sized fragments) from 13.94m to 14.00m assumed zone of core loss from 14.22m to 14.25m extremely weak from 14.56m to 14.61m extremely weak light grey mudstone
		16.00 - 16.50	C 48										
		16.50 - 18.00	C 49										
		16.92 - 17.02	CS 49.1	NR	16.00 16.50	100	92	0	NR	(2.02)		from 14.79m to 14.90m recovered as non intact core (angular coarse gravel sized fragments) from 14.90m to 15.00m assumed zone of core loss	

## Remarks

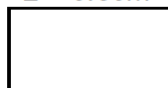
1. PAS 128 survey und  
formation. 3. 19mm van  
Licence (OGL). Based on

## Method, Plant, Logger, Stability, Dimensions

0.00 - 1.20m IP Insulated Hand Tools CR

Stable

$$L = 0.50m$$



$$W = 0.50m$$

1.20 - 13.00m CP Dando 3000 CR

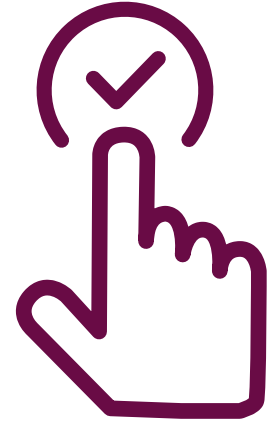
13.00 - 14.00m RC Soilmec SM8G CR

31.30 - 42.70m RC Soilmec SM8G CR

# Licenses





















## Try It For Free

We encourage you to try before you buy, with a free, no-obligation 14-day, instant trial. A trial gives you access to all AGS and Excel features, and lets you publish watermarked logs from your data. There's no hassle - just install Pebble Geo, and click the button within the software to start the trial.



## Commercial Licenses

Once you're ready to purchase, Pebble Geo commercial licenses are available in three flavours (Excel only, AGS only, or both), and come as 12-month activation keys (one per-user). You can purchase activation keys directly on the website using a credit or debit card. You'll receive your download link and activation key instantly. No sales calls, no contracts, no hassle.

				
	Trial	Excel	AGS	Excel+AGS
Duration	14 Days	12 Months	12 Months	12 Months
Input location data using Excel <sup>1</sup>				
Publish PDF logs from Excel imports	 <sup>2</sup>			
Import AGS data (v3.1 and v4.x)				
Publish PDF logs from AGS imports	 <sup>2</sup>			
Price	£0	£425	£485	£495

1 - Using included Pebble Geo Excel Data Entry Template

2 - With watermark

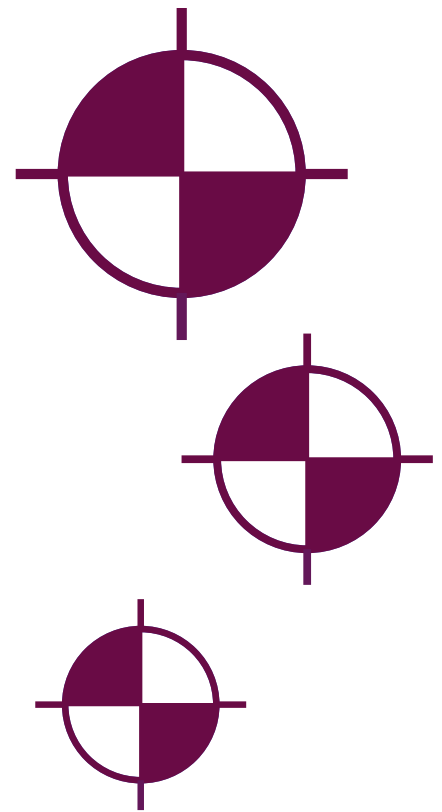
# Technical Specifications (1)

## System Requirements

Pebble Geo is an installable, desktop Windows application that requires a PC or laptop computer running Windows. Windows version 11 or higher is recommended, but Pebble Geo should run on most recent Windows computers.

Pebble Geo does not require large amounts of memory or a high-performance machine, but large data files may take a moment to load. User interface may appear small on very high-resolution or large displays.

If you are unsure, please use a software trial before purchasing an activation key to ensure compatibility and performance on your computer.



## Log Templates

Pebble Geo templates are available for boreholes and trial pits and cover both AGS 3.1 and AGS 4.x style field conventions (HOLE, LOCA). Templates are auto-selected by Pebble Geo, based on the field names and values detected within the dataset. The following columns are available in each template.

### HEADER

Top left has space for custom logo (support for JPG/JPEG and PNG format image files). Top right has label with value of LOCA.LOCA\_ID and dynamic page number label.

### Label Fields

Project (PROJ.PROJ\_NAME), Project No. (PROJ.PROJ\_ID), Ground Level (LOCA.LOCA\_GL), Hole Type (LOCA.LOCA\_TYPE), Scale (e.g. 1:50), Client, Contractor, Consultant (PROJ.PROJ\_CLNT, \_CONT, ENG), Easting (LOCA.LOCA\_NATE), Northing (LOCA.LOCA\_NATN), Start Date (LOCA.LOCA\_STAR), End Date (LOCA.LOCA\_ENDD).

# Technical Specifications (2)

## Template Columns

**Backfill/Installation:** Backfill intervals (BKFL.BKFL\_LEG) and installed pipe(s) (PIPE.PIPE\_TYPE). Supports multiple pipes.

**Water Levels(s):** Strike depth (WSTG.WSTG\_DPTH), rest depth (WSTD.WSTD\_POST) after maximum available value of minutes after strike (typically WSTD.WSTD\_NMIN = 20). Supports multiple water level readings at a single location.

**Samples and Tests:** Depth and depth range samples showing depth, type, ref and test results for ISPT.ISPT\_REP, IPID.IPID\_RES and IVAN.IVAN\_IVAN.

**Coring and Frac:** Rock quality (SCR, TCR, RQD) and fracture spacing (MIN, AVE, MAX or FI).

**Level:** Metres AOD (i.e. relative to LOCA.LOCA\_GL) to base of each GEOL interval in metres, drawn at base of interval. Blank if LOCA.LOCA\_GL is not populated.

**Depth (thickness):** Depth from top of hole to base of each GEOL interval in metres drawn at base of interval, thickness in metres of each GEOL interval drawn in brackets in middle of interval.

**Legend:** GEOL intervals with related ornament (or blank if none available), plus standard background library colour if desired (see colours and ornaments section for more information).

**Description:** Stratum description based on GEOL.GEOL\_DESC, with GEOL.GEOL\_GEOL appended where available, and any instances of depth-related stratum detail descriptions based on DETL.DETL\_DESC drawn at the appropriate depth. Auto-layout function allocates space vertically, based on length of descriptions, so not all descriptions appear at exact levels.

**Scale:** Scale ticks and depth-from-top labels, drawn in metres.



# Technical Specifications (3)

## Excel Template

Pebble Geo includes an Excel template (XLTX) which you can use to create spreadsheets (XLSX) and input your own site location data. If you have a license that includes Excel publishing capability, you can publish PDF logs from this data by importing the worksheet into Pebble Geo (see previous section for details of license levels available). To use all functionality within the template you will need to have access to Microsoft Excel.

The template is arranged as a series of worksheets based on typical AGS 4.x data groups (see list below), and provides guidance on the mandatory and desirable AGS data fields to complete. It also includes comprehensive lookup lists of typical values



































































## Available Groups & Fields

Group	Fields
PROJ	PROJ_NAME, PROJ_ID, PROJ_CLNT
LOCA	LOCA_ID, LOCA_TYPE, LOCA_NATE, LOCA_NATN, LOCA_GL, LOCA_REM, LOCA_STAR, LOCA_ENDD
HDPH	LOCA_ID, HDPH_EXC, HDPH_STAB, HDPH_DIML, HDPH_DIMW, HDPH_LOG
GEOL	LOCA_ID, GEOL_TOP, GEOL_BASE, GEOL_DESC, GEOL_LEG, GEOL_GEOL
SAMP	LOCA_ID, SAMP_TOP, SAMP_TYPE, SAMP_BASE
DETL	LOCA_ID, DETL_TOP, DETL_BASE, DETL_DESC
WSTD	LOCA_ID, WSTG_DPTH, WSTD_NMIN, WSTD_POST
BKFL	LOCA_ID, BKFL_TOP, BKFL_BASE, BKFL_LEG
PIPE	LOCA_ID, PIPE_REF, PIPE_TOP, PIPE_BASE, PIPE_TYPE
IPID	LOCA_ID, IPID_DPTH, IPID_RES
ISPT	LOCA_ID, ISPT_TOP, ISPT_NVAL (AUTOMATIC), ISPT_REP (AUTOMATIC), ISPT_INC1, ISPT_INC2, ISPT_INC3, ISPT_INC4, ISPT_INC5, ISPT_INC6
IVAN	LOCA_ID, IVAN_DPTH, IVAN_IVAN
CORE	LOCA_ID, CORE_TOP, CORE_BASE, CORE_PREC, CORE_SREC, CORE_RQD
FRAC	LOCA_ID, FRAC_FROM, FRAC_TO, FRAC_IMAX, FRAC_IAVE, FRAC_IMIN, FRAC_FI

# Technical Specifications (4)

## Legend Codes, Colours, Ornaments

Pebble Geo come pre-loaded with a library of colours and ornamentation graphics which are applied to the LEGEND column in the PDF logs. You can choose whether to use colours or not when you publish the logs. The table below shows typical ornaments and colours available in Pebble Geo logs. Colours are based on a range of sources, please refer to the key at the bottom of the table.

		TOPSOIL Legend Code 101    RGB 172 157 147    ■			MUDSTONE Legend Code 801    RGB 179 179 179    ▲
		MADE GROUND Legend Code 102, 106, 107    RGB 135 170 220    ■			SILTSTONE Legend Code 802    RGB 206 212 174    ▲
		Bituminous Material Legend Code 103    RGB 0 0 0    ■			SANDSTONE Legend Code 803    RGB 255 249 158    ▲
		CONCRETE Legend Code 104    RGB 244 238 215    ■			LIMESTONE Legend Code 804    RGB 213 246 255    ●
		Wood Legend Code 105    RGB 135 170 220    ■			CHALK Legend Code 805    RGB 32 192 0    ●
		Brickwork Legend Code 108    RGB 135 170 220    ■			COAL Legend Code 806    RGB 0 0 0    ■
		CLAY Legend Code 201+    RGB 153 176 190    ▲			BRECCIA Legend Code 807    RGB 247 195 0    ▲
		Silty CLAY Legend Code 202    RGB 153 176 190    ▲			CONGLOMERATE Legend Code 808    RGB 247 195 0    ▲
		SILT Legend Code 301+    RGB 206 212 174    ▲			IGNEOUS Legend Code 809, 810, 811    RGB 255 0 0    ●
		Clay/Silt Legend Code 302    RGB 206 212 174    ▲			METAMORPHIC Legend Code 812, 813, 814    RGB 233 175 221    ●
		SAND Legend Code 401+    RGB 255 249 148    ▲			Pyroclastic (volcanic ash) Legend Code 815    RGB 136 136 136    ■
		SAND and GRAVEL Legend Code 430    RGB 255 249 148    ▲			Gypsum, Rocksalt Legend Code 816    RGB 0 0 0    ■
		GRAVEL Legend Code 501+    RGB 247 195 0    ▲			Shale Legend Code 817    RGB 179 179 179    ▲
		PEAT Legend Code 601+    RGB 188 130 92    ▲			IRONSTONE Legend Code 818    RGB 0 0 0    ■
		COBBLES Legend Code 701+    RGB 206 107 64    ▲			SLATE Legend Code 819    RGB 179 179 179    ▲
		COBBLES and BOULDERS Legend Code 725    RGB 206 107 64    ▲			Void Legend Code 999    RGB 255 255 255    ■
		BOULDERS Legend Code 730    RGB 220 19 123    ▲			

Basis of colour allocation

- Typical industry convention
- ▲ British Geological Survey Unlithified Deposits Scheme IR/05/123
- Based on typical British Geological Survey mapping colours