



SAMPLE MANAGEMENT

MODULE 11

Assay Intercept Calculator

Composite grade intercepts hole by hole, with cut-off grade, maximum dilution and an included high-grade zone — across the whole project, in one run.

- Group: Sample Management
- Data-quality warnings tab
- Background computation
- High-grade “including” zone

1.02 g/t		25.35 g/t		13101.6 m			
Avg. Grade		Best Grade		Total Length			
📊 GMT Results		⚠️ Warnings					
SLTYPE	MFROM	MTO	LENGTH	GRADE	M.G/T	INTERCEPT	BEST INCL
REG	9.0	16.0	7.0	2.89	20.25	7.0m @ 2.89 g/t from 9.0m	2.0m @ 9.09 g/t from 9.0m
REG	32.0	37.0	5.0	0.63	3.13	5.0m @ 0.63 g/t from 32.0m	
REG	0.0	2.0	2.0	0.33	0.66	2.0m @ 0.33 g/t from 0.0m	
REG	4.0	7.0	3.0	1.32	3.97	3.0m @ 1.32 g/t from 4.0m	1.0m @ 3.37 g/t from 4.0m
REG	42.0	44.0	2.0	0.55	1.1	2.0m @ 0.55 g/t from 42.0m	
REG	15.0	21.0	6.0	1.06	6.34	6.0m @ 1.06 g/t from 15.0m	
REG	7.0	10.0	3.0	0.35	1.05	3.0m @ 0.35 g/t from 7.0m	
REG	16.0	19.0	3.0	0.46	1.38	3.0m @ 0.46 g/t from 16.0m	
REG	5.0	10.0	5.0	1.76	8.81	5.0m @ 1.76 g/t from 5.0m	
REG	6.0	10.0	4.0	4.56	18.24	4.0m @ 4.56 g/t from 6.0m	2.0m @ 8.21 g/t from 6.0m
REG	3.0	7.0	4.0	0.99	3.98	4.0m @ 0.99 g/t from 3.0m	
REG	17.0	19.0	2.0	0.5	1.0	2.0m @ 0.5 g/t from 17.0m	
REG	22.0	24.0	2.0	0.87	1.74	2.0m @ 0.87 g/t from 22.0m	
REG	11.0	13.0	2.0	0.31	0.62	2.0m @ 0.31 g/t from 11.0m	
REG	18.0	20.0	2.0	0.36	0.72	2.0m @ 0.36 g/t from 18.0m	
REG	14.0	17.0	3.0	1.08	3.24	3.0m @ 1.08 g/t from 14.0m	
REG	7.0	11.0	4.0	16.98	67.94	4.0m @ 16.98 g/t from 7.0m	2.0m @ 33.3 g/t from 7.0m
REG	22.0	24.0	2.0	0.63	1.26	2.0m @ 0.63 g/t from 22.0m	
REG	10.0	14.0	4.0	1.29	5.16	4.0m @ 1.29 g/t from 10.0m	
REG	18.0	21.0	3.0	0.94	2.82	3.0m @ 0.94 g/t from 18.0m	
REG	27.0	29.0	2.0	1.93	3.86	2.0m @ 1.93 g/t from 27.0m	
REG	32.0	34.0	2.0	2.98	5.96	2.0m @ 2.98 g/t from 32.0m	
REG	0.0	3.0	3.0	0.6	1.8	3.0m @ 0.6 g/t from 0.0m	
REG	21.0	24.0	3.0	1.33	3.99	3.0m @ 1.33 g/t from 21.0m	
REG	26.0	28.0	2.0	0.39	0.78	2.0m @ 0.39 g/t from 26.0m	
REG	10.0	12.0	2.0	0.37	0.74	2.0m @ 0.37 g/t from 10.0m	
REG	6.0	9.0	3.0	0.39	1.17	3.0m @ 0.39 g/t from 6.0m	
REG	27.0	29.0	2.0	0.40	1.11	2.0m @ 0.40 g/t from 27.0m	

Executive summary

The Assay Intercept Calculator composites grades hole by hole against a cut-off, a minimum width and a maximum dilution, and highlights the high-grade zones included within — this is the figure that goes into a release, and it has to be reproducible.

01 What it replaces

The compositing Excel macro, personal to each geologist, whose parameters are never published alongside the result.

02 How it works

Grade cut-off, minimum width, maximum waste and maximum consecutive waste runs define the intercept; an “including” zone at a higher cut-off highlights the high-grade core.

03 Who it is for

The geologist drafting the release and the technical lead who must be able to reproduce the calculation identically a year later.

125

intercepts above 0.30 g/t

16,98 g/t

best grade over 4 m

67,9

best metre × gram product

4

parameters that define the result

Intercepts recomputed on the KOUKLOUDAN dataset at 0.30 g/t Au, minimum width 2 m, maximum dilution 2 m.

Contents

01 What the module computes

The composite intercept: length, weighted mean grade, metre-grams.

02 The four principal parameters

Cut-off, minimum width, maximum waste, consecutive waste.

03 The including zone

A second cut-off isolates the high-grade core inside the intercept.

04 Reading the table

Eleven columns, with a colour code per grade band.

05 Warnings

Missing HoleIDs, non-numeric grades, interval gaps.

06 Output formatting

Minimum export grade, decimals, handling of negative values.

07 Anonymised data

1,913 intercepts across 965 holes, best grade 25.35 g/t.

08 Business value

The press-release sentence comes out of the software, not a spreadsheet.



GeoMate 2026

SECTION I

The module

The problem addressed, the capabilities delivered, the processing chain and the module's place in the platform.

-
- 01 Context
 - 02 Key capabilities
 - 03 Processing chain
 - 04 Place in the platform
-

Context

“16 m at 2.19 g/t Au including 2 m at 33.3 g/t”: that sentence is what investors read and what the Qualified Person verifies. It is the product of a calculation, not of a reading.

The module runs it across the whole project with explicit parameters, displays the colour-coded result and exports the complete table.

Parameters are exposed, not hidden

Cut-off grade, minimum width, maximum dilution and consecutive-waste count are entered and appear in the export.

The including zone follows its own rules

Its own higher cut-off, minimum width and dilution: the high-grade core is not a visual selection.

Data defects are isolated

A Warnings tab lists missing HoleIDs, non-numeric grades and interval gaps encountered during the calculation.

GeoMate - Geological Data Management

Assay Intercept Calculator

965 Holes, 1913 Intercepts, 1.02 g/t Avg Grade, 25.35 g/t Test Grade, 13101.6 m Total Length

Done — 1913 Intercepts found (47 warnings)

Export CSV

HOLEID	DRILLTYPE	MFROM	MTO	LENGTH	GRADE	M/G/T	INTERCEPT	BEST INCLUDING	INTERCEPT WITH INCL.
AC001	ORIG	9.0	16.0	7.0	2.89	20.25	7.0m @ 2.89 g/t from 9.0m	2.0m @ 9.09 g/t from 14.0m	7.0m @ 2.89 g/t from 9.0m incl. 2.0m @ 9.09 g/t from 14.0m
AC001	ORIG	32.0	37.0	5.0	0.63	3.13	5.0m @ 0.63 g/t from 32.0m		5.0m @ 0.63 g/t from 32.0m
AC002	ORIG	0.0	2.0	2.0	0.33	0.66	2.0m @ 0.33 g/t from 0.0m		2.0m @ 0.33 g/t from 0.0m
AC002	ORIG	4.0	7.0	3.0	1.32	1.97	3.0m @ 1.32 g/t from 4.0m	1.0m @ 3.37 g/t from 6.0m	3.0m @ 1.32 g/t from 4.0m incl. 1.0m @ 3.37 g/t from 6.0m
AC005	ORIG	42.0	44.0	2.0	0.55	1.1	2.0m @ 0.55 g/t from 42.0m		2.0m @ 0.55 g/t from 42.0m
AC006	ORIG	15.0	21.0	6.0	1.06	6.34	6.0m @ 1.06 g/t from 15.0m		6.0m @ 1.06 g/t from 15.0m
AC008	ORIG	7.0	18.0	11.0	0.35	1.05	3.0m @ 0.35 g/t from 7.0m		3.0m @ 0.35 g/t from 7.0m
AC008	ORIG	16.0	18.0	2.0	0.46	1.38	3.0m @ 0.46 g/t from 16.0m		3.0m @ 0.46 g/t from 16.0m
AC009	ORIG	5.0	18.0	13.0	1.76	8.81	5.0m @ 1.76 g/t from 5.0m		5.0m @ 1.76 g/t from 5.0m
AC019	ORIG	6.0	18.0	12.0	4.56	18.24	4.0m @ 4.56 g/t from 6.0m	2.0m @ 8.21 g/t from 8.0m	4.0m @ 4.56 g/t from 6.0m incl. 2.0m @ 8.21 g/t from 8.0m
AC020	ORIG	3.0	7.0	4.0	0.99	3.98	4.0m @ 0.99 g/t from 3.0m		4.0m @ 0.99 g/t from 3.0m
AC027	ORIG	17.0	18.0	1.0	0.5	1.0	2.0m @ 0.5 g/t from 17.0m		2.0m @ 0.5 g/t from 17.0m
AC028	ORIG	22.0	24.0	2.0	0.87	1.74	2.0m @ 0.87 g/t from 22.0m		2.0m @ 0.87 g/t from 22.0m
AC038	ORIG	11.0	13.0	2.0	0.31	0.62	2.0m @ 0.31 g/t from 11.0m		2.0m @ 0.31 g/t from 11.0m
AC038	ORIG	18.0	20.0	2.0	0.36	0.72	2.0m @ 0.36 g/t from 18.0m		2.0m @ 0.36 g/t from 18.0m
AC042	ORIG	14.0	17.0	3.0	1.08	3.24	3.0m @ 1.08 g/t from 14.0m		3.0m @ 1.08 g/t from 14.0m
AC045	ORIG	7.0	11.0	4.0	16.98	67.94	4.0m @ 16.98 g/t from 7.0m	2.0m @ 33.3 g/t from 7.0m	4.0m @ 16.98 g/t from 7.0m incl. 2.0m @ 33.3 g/t from 7.0m
AC049	ORIG	22.0	24.0	2.0	0.63	1.26	2.0m @ 0.63 g/t from 22.0m		2.0m @ 0.63 g/t from 22.0m
AC050	ORIG	10.0	14.0	4.0	1.29	5.16	4.0m @ 1.29 g/t from 10.0m		4.0m @ 1.29 g/t from 10.0m
AC058	ORIG	18.0	21.0	3.0	0.94	2.82	3.0m @ 0.94 g/t from 18.0m		3.0m @ 0.94 g/t from 18.0m
AC060	ORIG	27.0	29.0	2.0	1.93	3.86	2.0m @ 1.93 g/t from 27.0m		2.0m @ 1.93 g/t from 27.0m
AC062	ORIG	32.0	34.0	2.0	2.98	5.96	2.0m @ 2.98 g/t from 32.0m		2.0m @ 2.98 g/t from 32.0m
AC063	ORIG	0.0	3.0	3.0	0.6	1.8	3.0m @ 0.6 g/t from 0.0m		3.0m @ 0.6 g/t from 0.0m
AC068	ORIG	21.0	24.0	3.0	1.33	3.99	3.0m @ 1.33 g/t from 21.0m		3.0m @ 1.33 g/t from 21.0m
AC081	ORIG	26.0	28.0	2.0	0.39	0.78	2.0m @ 0.39 g/t from 26.0m		2.0m @ 0.39 g/t from 26.0m
AC085	ORIG	10.0	12.0	2.0	0.37	0.74	2.0m @ 0.37 g/t from 10.0m		2.0m @ 0.37 g/t from 10.0m
AC091	ORIG	6.0	9.0	3.0	0.39	1.17	3.0m @ 0.39 g/t from 6.0m		3.0m @ 0.39 g/t from 6.0m
AC092	ORIG	37.0	40.0	3.0	0.48	1.44	3.0m @ 0.48 g/t from 37.0m		3.0m @ 0.48 g/t from 37.0m
RC001	ORIG	9.0	11.0	2.0	0.92	1.84	2.0m @ 0.92 g/t from 9.0m		2.0m @ 0.92 g/t from 9.0m

The calculation runs on a separate thread: on a project of several thousand holes, the interface stays usable while it runs.

Key capabilities



01

Cut-off compositing

Groups intervals above the cut-off grade into a continuous intercept, with a length-weighted mean grade.



02

Controlled dilution

Minimum intercept width, maximum waste dilution in metres and maximum number of consecutive waste intervals.



03

Including zone

A second pass at a high cut-off isolates the high-grade core and reports it in the “Best Including” column.



04

Eleven result columns

HoleID, drill type, from, to, length, grade, m-g/t, intercept, best including, intercept with including.



05

Grade colour code

Four bands: 0-0.5 g/t grey, 0.5-2 amber, 2-10 green, beyond 10 in accent — the reading is immediate.



06

Quality warnings

A dedicated tab listing the defects met: missing identifiers, unreadable grades, interval gaps.

Processing chain

From per-run grade to a publishable intercept, parameters included.

A Inputs

Interval assays

- CSV source or database assay table
- Mapping: HoleID, drill type, mFrom, mTo, grade
- Filter: hole selection, depth limits
- Principal parameters: cut-off, minimum width, maximum waste
- Including zone: higher cut-off, its own width and waste

B Compositing

Background computation

- Grouping of runs above the cut-off
- Waste absorbed within the dilution limit
- Rejection of composites below the minimum width
- Grade weighted by each run's length
- Search for the best including zone within each intercept

C Outputs

Table and warnings

- HoleID, mFrom, mTo, length, grade, m.g/t
- Written intercept, and intercept with including
- Grades colour-coded by band: grey, orange, green, accent
- Warnings tab: missing HoleID, non-numeric grade, gaps
- CSV export of the results table

THE RESULT IS INSEPARABLE FROM ITS PARAMETERS

“4 m at 16.98 g/t” means nothing without the cut-off, minimum width and dilution that produced it. Publishing one without the others makes the figure unverifiable — and, in front of a technical committee, indefensible.

The Warnings tab lists the data-quality problems detected during the computation: to be read before exporting, not after.

Place in the platform

FED BY

10 Assay Importer

Supplies the per-interval grades, correctly attached to the hole.

06 QAQC Manager

Guarantees that the composited batches were accepted.

05 Data Validation

Removes the overlaps and gaps that would distort the weighting.



Assay Intercept Calculator

Where the exploration result takes shape: this is where a grade becomes a publishable sentence.

FEEDS

14 Report Builder

The intercept table is the heart of the results report.

17 Geological Intelligence

The intercepts frame the mineralised domain to be estimated.

Results release

Together with the calculation parameters, which must accompany it.



GeoMate 2026

SECTION II

In practice

The real interface, the operating workflow, the reference settings, good practice and the questions that come up.

-
- 01 The interface
 - 02 Operating workflow
 - 03 In depth
 - 04 Good practice
 - 05 Frequently asked
-

The interface

The screenshot displays the GeoMate - Geological Data Management application. The main window is titled "Assay Intercept Calculator" and shows a summary bar at the top with the following data: 965 Holes, 1913 Intercepts, 1.02 g/t Avg. Grade, 25.35 g/t Best Grade, and 13101.6 m Total Length. Below the summary bar is a search field and an "Export CSV" button. The main area contains a table with columns: HOLEID, DRILLTYPE, MFROM, MTO, LENGTH, GRADE, M.G/T, INTERCEPT, BEST INCLUDING, and INTERCEPT WITH INCL. The table lists various assay intercepts for different holes. On the left sidebar, there are sections for "DRILL TYPE FILTER" (set to ORIG), "PRINCIPAL INTERCEPT" (with parameters: Cut-off grade: 0.30, Min. length (m): 2.0, Max. waste (m): 2.0), "INCLUDING INTERCEPT" (with parameters: Cut-off grade: 3.00, Min. length (m): 1.0, Max. waste (m): 0.0), and "OUTPUT FORMATTING" (with parameters: Min export grade: 0.30, Decimal places: 2, Negative Au: 0.005). A "Compute Intercepts" button is at the bottom of the sidebar.

HOLEID	DRILLTYPE	MFROM	MTO	LENGTH	GRADE	M.G/T	INTERCEPT	BEST INCLUDING	INTERCEPT WITH INCL.
AC001	ORIG	9.0	16.0	7.0	2.89	20.25	7.0m @ 2.89 g/t from 9.0m	2.0m @ 9.09 g/t from 14.0m	7.0m @ 2.89 g/t from 9.0m Incl. 2.0m @ 9.09 g/t from 14.0m
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AC002	ORIG	0.0	2.0	2.0	0.33	0.66	2.0m @ 0.33 g/t from 0.0m		2.0m @ 0.33 g/t from 0.0m
AC002	ORIG	4.0	7.0	3.0	1.32	3.97	3.0m @ 1.32 g/t from 4.0m	1.0m @ 3.37 g/t from 6.0m	3.0m @ 1.32 g/t from 4.0m Incl. 1.0m @ 3.37 g/t from 6.0m
AC005	ORIG	42.0	44.0	2.0	0.55	1.1	2.0m @ 0.55 g/t from 42.0m		2.0m @ 0.55 g/t from 42.0m
AC006	ORIG	15.0	21.0	6.0	1.06	6.34	6.0m @ 1.06 g/t from 15.0m		6.0m @ 1.06 g/t from 15.0m
AC008	ORIG	7.0	10.0	3.0	0.35	1.05	3.0m @ 0.35 g/t from 7.0m		3.0m @ 0.35 g/t from 7.0m
AC008	ORIG	16.0	19.0	3.0	0.46	1.38	3.0m @ 0.46 g/t from 16.0m		3.0m @ 0.46 g/t from 16.0m
AC009	ORIG	5.0	10.0	5.0	1.76	8.81	5.0m @ 1.76 g/t from 5.0m		5.0m @ 1.76 g/t from 5.0m
AC019	ORIG	6.0	10.0	4.0	4.56	18.24	4.0m @ 4.56 g/t from 6.0m	2.0m @ 8.21 g/t from 8.0m	4.0m @ 4.56 g/t from 6.0m Incl. 2.0m @ 8.21 g/t from 8.0m
AC020	ORIG	3.0	7.0	4.0	0.99	3.98	4.0m @ 0.99 g/t from 3.0m		4.0m @ 0.99 g/t from 3.0m
AC027	ORIG	17.0	19.0	2.0	0.5	1.0	2.0m @ 0.5 g/t from 17.0m		2.0m @ 0.5 g/t from 17.0m
AC028	ORIG	22.0	24.0	2.0	0.87	1.74	2.0m @ 0.87 g/t from 22.0m		2.0m @ 0.87 g/t from 22.0m
AC038	ORIG	11.0	13.0	2.0	0.31	0.62	2.0m @ 0.31 g/t from 11.0m		2.0m @ 0.31 g/t from 11.0m
AC038	ORIG	18.0	20.0	2.0	0.36	0.72	2.0m @ 0.36 g/t from 18.0m		2.0m @ 0.36 g/t from 18.0m
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AC045	ORIG	7.0	11.0	4.0	16.98	67.94	4.0m @ 16.98 g/t from 7.0m	2.0m @ 33.3 g/t from 7.0m	4.0m @ 16.98 g/t from 7.0m Incl. 2.0m @ 33.3 g/t from 7.0m
AC049	ORIG	22.0	24.0	2.0	0.63	1.26	2.0m @ 0.63 g/t from 22.0m		2.0m @ 0.63 g/t from 22.0m
AC050	ORIG	10.0	14.0	4.0	1.29	5.16	4.0m @ 1.29 g/t from 10.0m		4.0m @ 1.29 g/t from 10.0m
AC058	ORIG	18.0	21.0	3.0	0.94	2.82	3.0m @ 0.94 g/t from 18.0m		3.0m @ 0.94 g/t from 18.0m
AC060	ORIG	27.0	29.0	2.0	1.93	3.86	2.0m @ 1.93 g/t from 27.0m		2.0m @ 1.93 g/t from 27.0m
AC062	ORIG	32.0	34.0	2.0	2.98	5.96	2.0m @ 2.98 g/t from 32.0m		2.0m @ 2.98 g/t from 32.0m
AC063	ORIG	0.0	3.0	3.0	0.6	1.8	3.0m @ 0.6 g/t from 0.0m		3.0m @ 0.6 g/t from 0.0m
AC068	ORIG	21.0	24.0	3.0	1.33	3.99	3.0m @ 1.33 g/t from 21.0m		3.0m @ 1.33 g/t from 21.0m
AC081	ORIG	26.0	28.0	2.0	0.39	0.78	2.0m @ 0.39 g/t from 26.0m		2.0m @ 0.39 g/t from 26.0m
AC085	ORIG	10.0	12.0	2.0	0.37	0.74	2.0m @ 0.37 g/t from 10.0m		2.0m @ 0.37 g/t from 10.0m
AC091	ORIG	6.0	9.0	3.0	0.39	1.17	3.0m @ 0.39 g/t from 6.0m		3.0m @ 0.39 g/t from 6.0m
AC092	ORIG	37.0	40.0	3.0	0.48	1.44	3.0m @ 0.48 g/t from 37.0m		3.0m @ 0.48 g/t from 37.0m
RC001	ORIG	9.0	11.0	2.0	0.92	1.84	2.0m @ 0.92 g/t from 9.0m		2.0m @ 0.92 g/t from 9.0m

1 Summary bar

965 holes, 1,913 intercepts, 1.02 g/t average, 25.35 g/t best, 13,101.6 m in total.

2 Principal parameters

Cut-off 0.30 g/t, minimum length 2.0 m, maximum waste 2.0 m.

3 Including zone

Cut-off 3.00 g/t, minimum length 1.0 m, no dilution allowed.

4 Results table

Intercept phrased in plain language: "4.0 m at 16.98 g/t from 7.0 m Incl. 2.0 m at 33.3 g/t".

5 Three tabs

Results, GMT-format results, and 47 data-quality warnings.

Actual GeoMate 2026 v2026.3.1.5 screen capture — Midnight theme.

Operating workflow

Six steps, from load to the exported intercept table.

1

Load

Assay table from the database or a CSV file, filterable by drill type and date.

2

Map

HoleID, drill type, mFrom, mTo and the grade column to composite.

3

Parameterise

Cut-off, minimum width, maximum dilution and consecutive-waste count.

4

Enable the including zone

A higher cut-off and its own minimum length for the high-grade core.

5

Compute

The calculation runs in the background; grades are colour-coded by band.

6

Check, then export

Read the Warnings tab before exporting the table to CSV.

Calculation parameters

PARAMETER	PURPOSE	DEMONSTRATION VALUE
Cut-off grade	Threshold above which an interval enters the intercept	0.30 g/t
Minimum length	Length below which the intercept is rejected	2.0 m
Maximum waste	Waste thickness tolerated inside an intercept	2.0 m
Consecutive waste	Number of below-cut-off intervals allowed in a row	Configurable
Including cut-off	Threshold of the high-grade zone reported inside the intercept	3.00 g/t
Including minimum length	Minimum length of the high-grade zone	1.0 m
Minimum export grade	Filter applied to the exported table	0.30 g/t
Negative values	Substitution of below-detection values	0.005

The best intercepts computed

Cut-off 0.30 g/t Au, minimum length 2.0 m, maximum waste 2.0 m — recomputed on the assays exported from GeoMate.

HOLE	FROM (M)	TO (M)	LENGTH	GRADE (G/T)	M·G/T
KDAC045	7	11	4	16.98	67.9
KDRC187	95	98	3	18.94	56.8
KDRC060	46	50	4	11.51	46.0
KDRC228	45	51	6	5.98	35.9
KDRC176	36	52	16	2.19	35.0
KDAC001	9	16	7	2.89	20.2
KDAC019	6	10	4	4.56	18.2
KDRC163	37	40	3	5.68	17.0

Good practice

What to check before publishing an intercept.



Publish the parameters with the figure

Cut-off, minimum width, maximum dilution: without them the intercept is neither verifiable nor comparable to a neighbour's.



Justify the cut-off

It must come from the geochemical analysis or from an explicit economic assumption, not from a round number chosen for effect.



Read the Warnings tab

Missing HoleIDs, non-numeric grades, interval gaps: each one silently changes the composite.



Use the including zone honestly

It highlights a high-grade core; it does not replace the main intercept and is not quoted on its own.



Separate drilled length from true thickness

An intercept is a length along the hole. True thickness depends on the angle to the structure — a different quantity.



Keep the CSV export

It is the record of what was computed, on the date it was. Redoing it a year later on a modified database will not give the same result.

Frequently asked

The questions asked over an intercept table.

Q What does m.g/t mean?

Length times grade — a “metal quantity” indicator per hole, which lets intercepts be ranked against one another.

Q What is maximum waste for?

It allows runs below the cut-off to be absorbed inside a composite, within an explicit limit: without it a single poor run splits the intercept in two.

Q Why does an intercept disappear?

It fell below the minimum width, or the dilution exceeded the limit. Both parameters can be changed, but must be published.

Q Is the computation slow?

No: it runs on a separate thread and the interface stays usable. On a dataset of several thousand rows it is near-instant.

Q Do the colours mean anything?

Yes: grey below 0.5 g/t, orange 0.5 to 2, green 2 to 10, accent above 10. A reading aid, not a selection criterion.

Q Can I work from a CSV?

Yes, as with a database table: useful for recomputing a published intercept from the original export.



GeoMate 2026

SECTION III

The data

What the module produces on a real dataset, and the vocabulary needed to read those results.

01 Anonymised data

02 Key concepts

Anonymised data

Real result of the intercept calculation on the KOUKOUDAN database.

125

INTERCEPTS

at 0.30 g/t Au, minimum width 2 m

16.98 g/t

BEST GRADE

KDAC045 — 4 m from 7 m

55.9 ppm

PEAK ASSAY

highest single value in the database

299

ASSAYS > 0.5 g/t

out of 11 726 assays

The calculation reproduced here on the exported assays yields 125 intercepts; the same operation run inside GeoMate against the full database produces 1,913 across 965 holes, for 13,101.6 m composited at an average 1.02 g/t — with 47 quality warnings to clear before publication.

Source: KOUKOUDAN project database (Senegal) — figures computed from the real data exported from GeoMate.

Key concepts

The vocabulary of intercept compositing.

Cut-off

The grade below which a run does not enter the intercept. It defines what is being called mineralised.

Minimum width

The length below which a composite is not reported. It avoids publishing intercepts that could never be mined.

Weighted grade

The average of the grades weighted by each run's length — the only correct average over unequal runs.

Dilution

The length of waste absorbed into a composite. It lowers the average grade but avoids fragmenting a continuous zone.

Including zone

A higher-cut-off sub-interval inside an intercept, reported to show the high-grade core.

True thickness

The thickness measured perpendicular to the structure. It is always less than or equal to the drilled length.



GeoMate 2026

SECTION IV

Value & specifications

What the module changes for the project, and its technical integration profile.

-
- 01 Business value
 - 02 Technical profile
-

Business value

The published sentence is reproducible

Cut-off, minimum width and dilution are recorded with the result: anyone can redo the calculation and reach the same figure.

Traced parameters

The whole project in one run

965 holes composited at once, instead of one hand-recalculated workbook per hole.

965 holes

The high-grade core is calculated

The including zone follows an explicit rule, not a visual selection on a chart.

Explicit rule

Defects surface with the result

Forty-seven warnings accompany the demonstration run — as many points to check before publication.

47 warnings

The output feeds the report

The CSV table goes straight into the Report Builder, Mate BI Studio or the release.

CSV export

Technical profile

Inputs

Sources

Assay table or CSV

Mapping

HoleID · drill type · mFrom · mTo · grade

Filters

Hole, drill type, date range, depth

Negative values

Configurable substitution

Calculation

Weighting

Length-weighted mean grade

Dilution

Waste metres and consecutive interval count

Including

Second pass with its own cut-off and width

Execution

Background thread, non-blocking UI

Outputs

Table

11 columns, grades colour-coded by band

GMT format

Dedicated tab for mapping tools

Export

CSV with configurable minimum grade and decimals

Checking

Data-quality warnings tab



One platform, from field to report

The “Assay Intercept Calculator” module is one of the 19 modules of GeoMate 2026 — a single, fully offline platform covering the whole chain: database design, data entry, validation, QA/QC, dispatch, analysis and reporting.

GeoMate 2026.3.1.5 · Sample Management · Assay Intercept Calculator

GeoMate 2026 · Built-in documentation: [press F1 in the application](#)

Module presentation document · GeoMate 2026 · internal use · 11-intercept · v2026.3.1.5