

Reconcilor 9.10.3

Release Notes



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Overview

Reconcilor enables mine operators to reconcile their reserve estimates and predicted versus actual production from geological model to commodity production. Reconcilor delivers rigorous and systematic analyses of resource factors across the mine value chain that drive continuous improvement to obtain better geological and grade estimates, more accurate mining predictions, improved recoveries, maximisation of the resource, and reduction in risk due to unexpected metal loss. Used by managers, geologists, metallurgists, and engineers, this comprehensive solution includes geological model reconciliation, built-in data validation, intuitive analysis features, and comprehensive reporting. By automating data imports and validation, Reconcilor enables early detection of data issues, supports informed decision-making, and ultimately helps to lower costs and increase profitability.

Further Information

This document includes cumulative release notes for Reconcilor from version 9.8.

Release notes for other versions of Reconcilor are available via the Support Portal <https://www.dataminesoftware.com/support/> and the Datamine Documentation site <https://docs.dataminesoftware.com/Reconcilor/index.htm>

Additional Resources

The following general resources are available to help you use Reconcilor:

- **Integrated Online Help:** The information icon in top right of the Reconcilor user interface takes you to the version-specific online help for the screen you have open. The online help describes what each screen is used for and has links to step-by-step instructions for the processes you can do on that screen.
- **Datamine Documentation Website:** Home to the Reconcilor online help, release notes and system requirements.
<https://docs.dataminesoftware.com/Reconcilor/>
- **Online Video Tutorials:** Check out our YouTube channel for video tutorials for step-by-step guides to some of our more complex features.
<https://www.youtube.com/@DatamineSoftware/search?query=reconcilor>
- **Support Portal:** Use the Datamine Support Portal to get in touch with our global support teams for direct assistance with any software related issues.
<https://www.dataminesoftware.com/support/>

- **Latest version:** To upgrade to the latest release version, contact your Datamine Reconcilor consultant.

Feedback and Support

We value your feedback and are committed to continuously improving our product. If you encounter any issues or have suggestions for further enhancements, please contact our support team, and we will be glad to assist you.

Thank you for your ongoing support and trust in Reconcilor. We strive to provide you with a seamless and efficient experience, and this release is a testament to our dedication to delivering excellence in data management.

Sincerely,

The Reconcilor Team

Reconcilor 9.10.3 Release Notes

New Features and Enhancements

- In the **Pivot View**, the **Chart Colour Dimension** configuration option previously called *Comparison Name* has been renamed to *Metric Name* for clarity. This improves usability without affecting existing functionality.
- Chart information icons have been added to the **Trends**, **Model Comparison**, **Continuum** and **Spatial Analysis** screens to provide additional contextual information about the applicable model and mine plan.
- Additional configuration options have been introduced for displaying totals in the **Pivot View**. This enhances flexibility when tailoring analysis displays.

Defect Fixes

- An issue with totals in the **Pivot View** when using location filters has been resolved. The totals now correctly reflect the selected locations, ensuring accurate aggregation for all users.
- An error was occurring in the **Stockpile Analysis** screen when selecting the *FY to Date* option. This has been fixed so the screen now loads successfully with financial year-to-date data.
- The **Mining Analysis** screen was displaying incorrect colours when grouping by location in the **Mine Plan Compliance** view. The issue has been corrected to ensure consistent and expected colour coding.
- A failure occurred when retrieving data in the **Spatial Analysis** screen. This has been fixed so that the system now reliably returns spatial data.
- Navigating within the **Continuum** screen previously triggered an 'Operation Failed' error. Navigation is now stable and functions correctly across all supported environments.
- Users logging in via roles assigned through Active Directory (AD) groups were unable to access **Analysis** modules. This has been fixed so that AD group permissions are correctly recognised on login.
- An 'Operation Failed' error occurred when selecting the *Anomalous/Carnallite* attribute in the **Continuum**. This has been resolved to allow successful analysis of these attributes.
- An issue has been fixed where the **Period** filter **Quick Links** were not functioning correctly in the **Data Approval** screen.
- The **Block Model** CVC tool was ignoring data locks, allowing edits to locked data. This has been corrected to ensure data integrity is maintained according to the lock settings.
- An issue has been fixed where the **Stockpile** filter in the **Stockpile Analysis** screen was not displaying any options.
- The **Data Overview** screen incorrectly included a row labelled **No Model Type**. This has been removed so the screen reflects only valid model types.
- Disabled metrics were still visible on the **Comparison** screen. These are now correctly hidden from view.
- In **Pivot View**, selecting a metric-related option from the custom drop-down triggered an 'Operation Failed' error. This error has been fixed and the drop-down functions as intended.

- Unresolved material type issues were being detected for **Block Model** and **Model Survey** but not displayed in the **Data Health** user interface. These issues are now surfaced appropriately to support accurate data validation.
- The legend was missing when using the **Closing Balance Stacked Bar Chart** in **Stockpile Analysis**. The legend now displays correctly to support interpretation of the chart.
- The **Trends** screen was displaying totals for attributes even when no data was present. The system has been updated to show totals only when values exist.
- An issue has been fixed where the **Zn (t)** measure was missing from both the chart and legend in **Stockpile Analysis**.
- The **Stockpile Group** filter in **Stockpile Analysis** was not sorted properly. The filter options now display in the correct order for easier selection.
- The **Configure** panel in **Spatial Analysis** closed unexpectedly when polygon comparison values were selected. This issue has been fixed and the panel remains open as expected.
- An 'Operation Failed' error appeared when selecting *Depletion %* as the **Colour By** option in **Spatial Analysis**. This has been corrected so that this option now functions properly.
- An issue has been fixed where bench validation in **Spatial Analysis** did not consistently display.
- An error occurred in **Pivot View** when selecting the *Metric Product Size* option. This has been resolved to ensure all metric options are available.
- Clicking **Apply** in the **Spatial Analysis** screen's **Configure Display** panel caused the panel to close. The panel now remains open unless explicitly closed by the user.
- An incorrect configuration was being loaded in the **Data Overview** view for the selected period. This has been fixed to ensure the correct configuration is shown based on the selected period.
- An issue has in the **Grade Block** screen where clicking **Export All** caused files to be exported twice has been resolved.
- Enabling SQL logging previously caused the **Crusher Feed** screen to crash. Logging is now handled more safely, and the screen functions normally with logging enabled.
- The **Period** filter was extending beyond the selected range. This has been corrected so that filters now strictly adhere to the selected period.
- The **Continuum** survey **Period** filter was changing unexpectedly when navigating away and returning to the screen. This has been resolved and filter settings are now retained during navigation.

- An 'Operation Failed' error occurred in **Data Approval** when a deleted view was selected. The system now handles deleted views correctly.
- In **Group Management**, selected members in the **Edit Group** screen were not being saved properly. This issue has been fixed and group changes are now retained as expected.
- Column headers in the **Data Health** export did not match the exported data. The headers have been aligned to reflect the correct column contents.

Reconcilor 9.10.2 Release Notes

New Features and Enhancements

- Documentation for Reconcilor's **Integration** functionality has been updated.
- Colour configuration is now supported for **Attributes**.
- The **Trends** table now supports the display of **Attributes**.

Defect Fixes

- An issue has been fixed where the **Spatial Analysis** screen did not display the **Ore/Waste** label.
- An issue has been fixed where shift-related tests for the Dash date picker component failed depending on the time of day.
- An issue has been fixed where stockpile groups could not be deleted.
- An issue has been fixed where the **Trends** screen did not apply pro-rata to **Mine Plans** as expected.
- An issue has been fixed where **Material Movement** nodes crashed when no **Location Type 6** was present.
- An issue where additional columns on the **Grade Block List** screen did not work has been fixed.
- An issue has been fixed where the **Trends** screen's **Block Model Active Model** did not return data for comparisons.
- Multi Survey **Period** filter behaviour has been improved.
- An issue has been fixed where the **Stockpile Group** filter on the **Stockpile Management** screen did not sort correctly.
- An issue has been fixed where the **Trends** screen produced duplicate results when comparing two different units on the same axis.
- An issue has been fixed where export/import job validation errors caused a time-out.
- A database upgrade script failure for the *GetControlPointTransactionData* view has been resolved.
- Performance when populating **Pivot View** custom filters has been improved.
- An issue has been fixed where model cell imports with a large number of deletes took an excessively long time or failed.

Reconcilor 9.10 Release Notes

Reconcilor 9.10 delivers a **major version upgrade** with a strong focus on usability, data integrity, and analysis flexibility across the mining value chain. This release introduces powerful new features alongside practical enhancements to streamline workflows and improve decision-making.

Highlights in this release include:

- **Embedded Analysis** – Reconcilor can now host dashboards from tools such as Microsoft Power BI or Tableau, allowing users to view and interact with external reports directly within the platform.
- **Global and Location data approval** – New workflows support formal review and approval of key datasets at either site or global levels, improving traceability and accountability.
- **Dynamic Continuum enhancements** – Improved readability, flexible layouts, and metric visibility controls for easier comparison analysis.
- **Grade Block screen refinements** – More accurate block percentage calculations and grouped model totals for model comparison.
- **Mining Analysis options** – Configurable production categories (Ore Mined, Ore + Waste, or Direct Feed + Stockpiling + Waste) for sites with different planning structures.
- **Mining Compliance Chart enhancements** – More flexible date handling, clearer compliance reporting, and unique colour coding.
- **Export to Excel** – New export options from Mining Analysis and Crusher Feed, including plan compliance metrics.
- **Online help access** – Direct links to rich documentation, videos, and learning content hosted on the Datamine Docs website.
- **Quick calendar links** – New *FY to Date* and *Month to Yesterday* options for faster, timeframe-aligned reporting.
- **Data Overview screen improvements** – Consolidated approval status visibility across periods and locations in a single view.

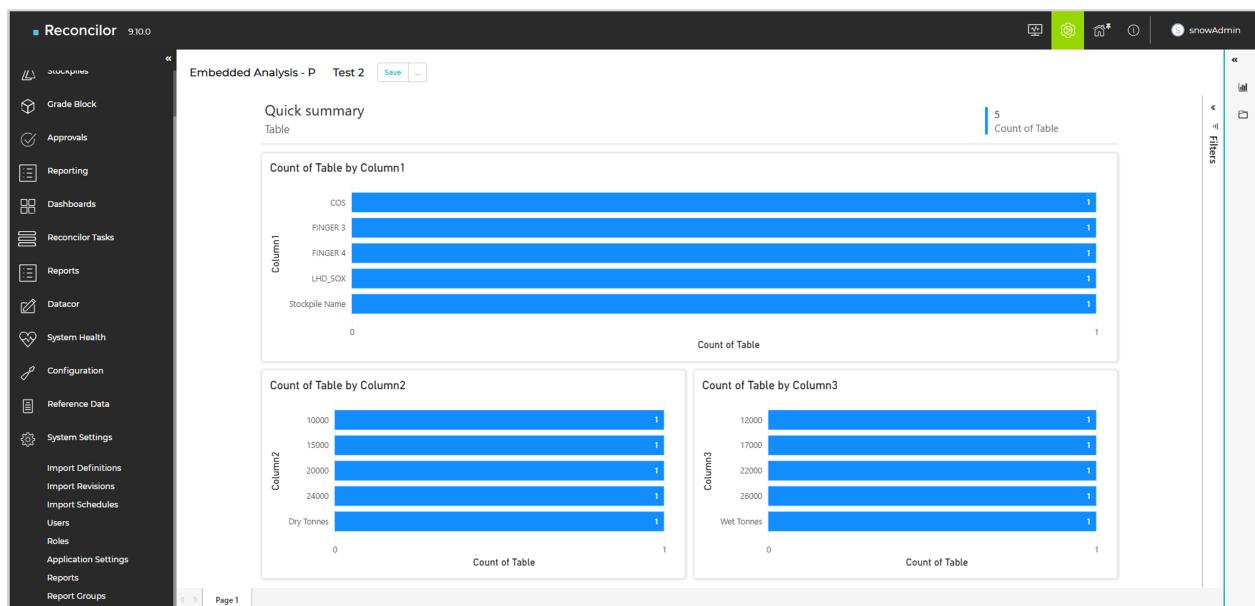
Reliability and performance fixes include:

- Corrected issues with **Data Health** sorting and filtering.
- Improved **Mining Compliance Chart** logic for planned vs. actual mining.
- Fixed configuration filter behaviour to properly respect global and private settings.
- Multiple defect fixes across **Continuum**, **Pivot View** and configuration modules for improved stability and performance.

New Features and Enhancements

Embedded Analysis

The new **Embedded Analysis** screen allows authorised users to embed external dashboards or web-based reports directly within Reconcilor using a saved URL. Secure embed links generated from platforms such as Microsoft Power BI, Tableau, or other systems that support HTML embedding can be added in Reconcilor. Embedded content displays in the Reconcilor interface and is accessible only to users with the appropriate permissions.



Originally developed for clients who use Power BI extensively, this feature is flexible enough to support any web-accessible dashboard or static site. It is ideal for teams who want to bring external data visualisations into Reconcilor for centralised access.

Data Approval – Global & Location

The **Data Approval** feature ensures that key datasets—such as production figures, assay results, or reconciled metrics—are formally reviewed and authorised before use in reporting, analysis, or downstream workflows.

The **Data Approval** feature has now been enhanced to improve approval workflows across complex location hierarchies.

- Location-level approval now supports approving individual locations or using an **All** locations option, which is particularly useful for plant and blended data that spans multiple source locations.
- Approval actions cascade down the location hierarchy, automatically approving child locations, while unapproval behaviour applies only at the parent level.
- Bulk approval operations now provide more consistent and predictable behaviour. When a **Bulk Approve** is applied at a top-level location, approval automatically cascades to all child locations through the approval workflow. **Bulk Unapprove** operations currently apply to a single location per request; that is, unapproving a lowest-level location does not automatically cascade to parent locations. Multiple actions are required to fully reverse approvals across a hierarchy.

Continuum Screen Enhancements

This release introduces two key usability improvements to the **Continuum** screen.

Improved Display of Comparison Names

Long comparison names in the selector drop-down were previously truncated without a tooltip, making it difficult to identify the correct selection.

- Tooltips now display when you hover over truncated comparison names in the selector.
- The selector width has been adjusted to better accommodate longer names where screen space allows.

Flexible Node Widths & Metric Visibility Controls

As more comparison nodes are added—especially from configured metrics and mine planning metrics—users previously had to zoom out or scroll to view all data.

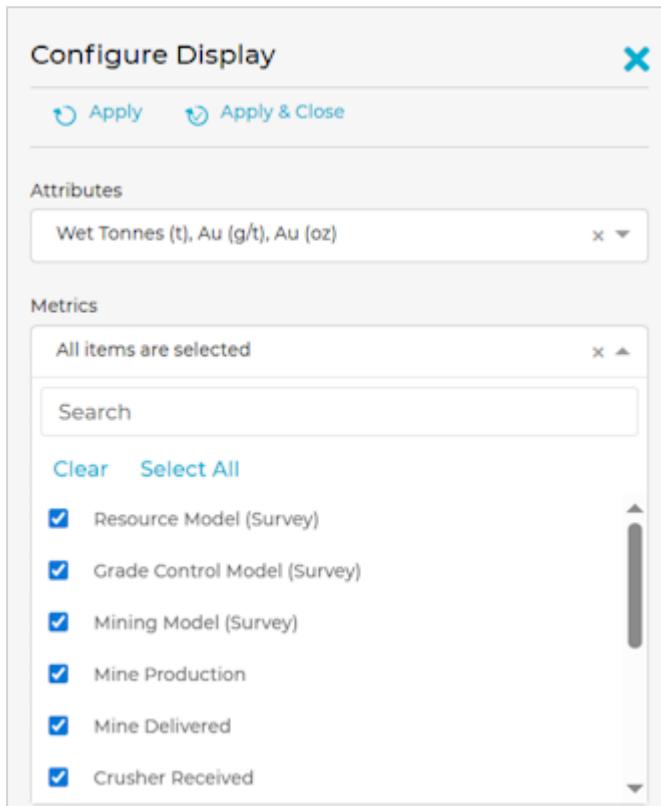
For improved, more adaptive layouts:

- Nodes now support minimum widths of ~30–40%, depending on screen size and content.
- The waterfall chart layout has reduced column gaps and node widths to fit more comparisons, with metric names now supporting up to three lines of text for improved wrapping.

- Display logic keeps comparison bars and difference indicators legible by prioritising text wrapping, reducing node gaps, and resizing bars when space is limited.

Metric visibility controls have been added to the configuration toolbar:

- A multi-select control allows users to choose which metric (MVC nodes) to display. All nodes are selected by default for full visibility.
- Unselected nodes are completely hidden from view and interactions, and are excluded from comparison selections and expand/collapse options.



Grade Block Screen Enhancements

In response to user feedback, several improvements have been made to the model comparison display on the **Grade Block** screen to enhance readability and make it easier to identify missing or inconsistent data across models.

More Accurate % of Block Calculation

The percentage of block is now calculated based on the volume of each line item relative to the total grade block volume, rather than using tonne-based calculations.

Because volume is consistent across models, this change provides a more accurate and reliable comparison, helping to highlight missing data and discrepancies between models.

Grouped Model Totals

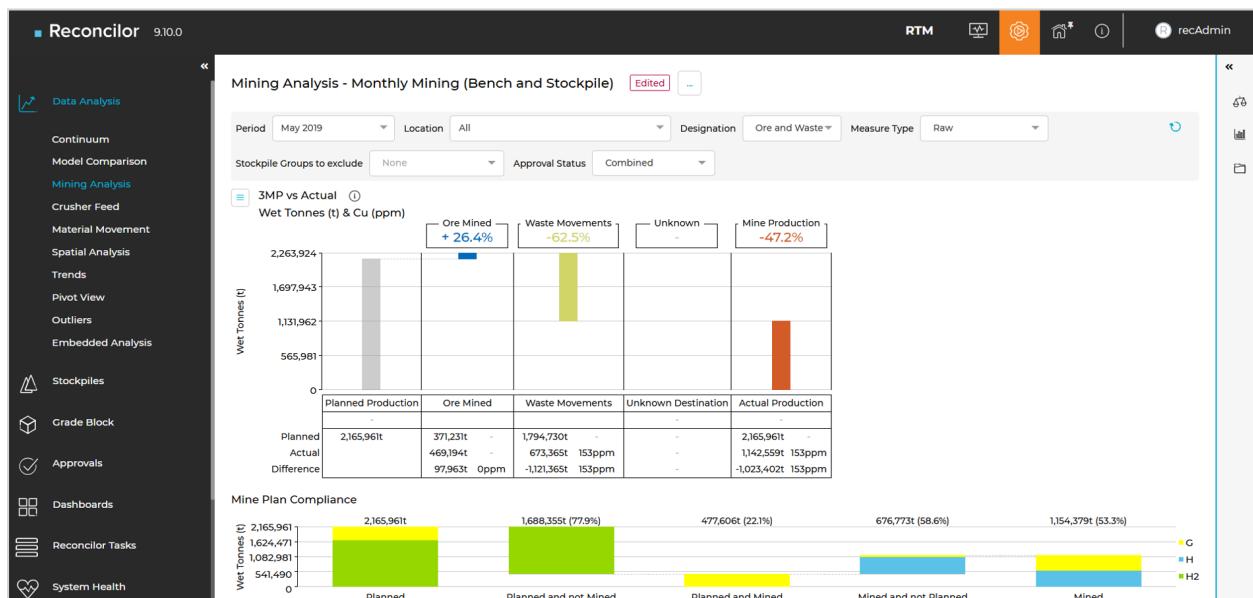
When grouping is enabled (for example, by **Material Type**), each model now displays a **Total** row summarising tonnes, volume, % of block, and weighted average grades.

This change makes the grouped display more informative and supports faster comparisons between models.

Mining Analysis Screen Enhancements

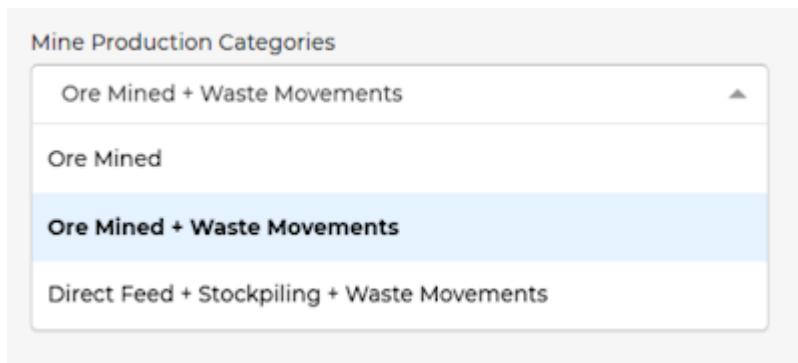
To better support operations where mine plans do not differentiate between *Direct Feed* and *Stockpiling*, the **Mining Analysis** screen now includes configurable display options for mine production data.

Many mine plans only report ore and waste mined, without specifying destination types such as *Direct Feed* or *Stockpiling*. Previously, this meant the **Mining Analysis** screen displayed these destinations separately, making it difficult to directly compare actuals against plans.



Mine Production Categories Configuration

A new **Mine Production Categories** setting in the **Display Options** panel allows users to choose how production data is grouped.



The available display options are:

- **Ore Mined** – Combines *Direct Feed* and *Stockpiling* into a single category.
- **Ore Mined + Waste Movements** – Splits into two categories: *Ore* and *Waste*.
- **Direct Feed + Stockpiling + Waste Movements** – Default (legacy) behaviour.

The selected option controls which grouping filters are available in the **Configuration** panel.

Example: *Ore Mined* Grouping

If **Ore Mined** is selected as the category, the grouping panel displays a single drop-down labelled **Ore Mined**.

The available grouping fields include:

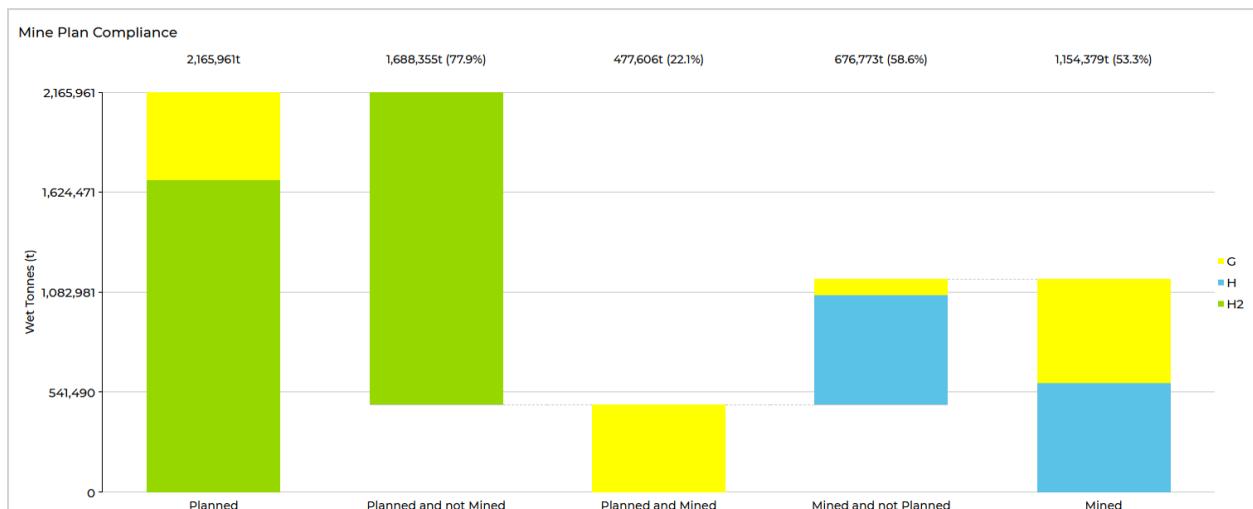
- Source Location (all levels)
- Destination Name
- Source Lithology Type / Group
- Source Material Type / Group
- Destination Lithology Type / Group
- Destination Material Type / Group

After you configure the groupings and click **Apply**, the mine production visualisation (waterfall chart) updates to reflect the selected structure.

Mining Compliance Chart Enhancements

The **Mining Compliance Chart** on the **Mining Analysis** screen now displays compliance percentages for three categories:

- *Planned & Not Mined*
- *Planned & Mined*
- *Mined & Not Planned*



Mining Analysis and Crusher Feed Export

Data from the **Mining Analysis** and **Crusher Feed** screens can now be exported to Microsoft Excel for further analysis. Plan compliance metrics from the **Mine Plan Compliance Chart** are also included in the export.

New Quick Links Calendar Options

Two new quick link options have been added to the period filter selectors to improve date selection flexibility:

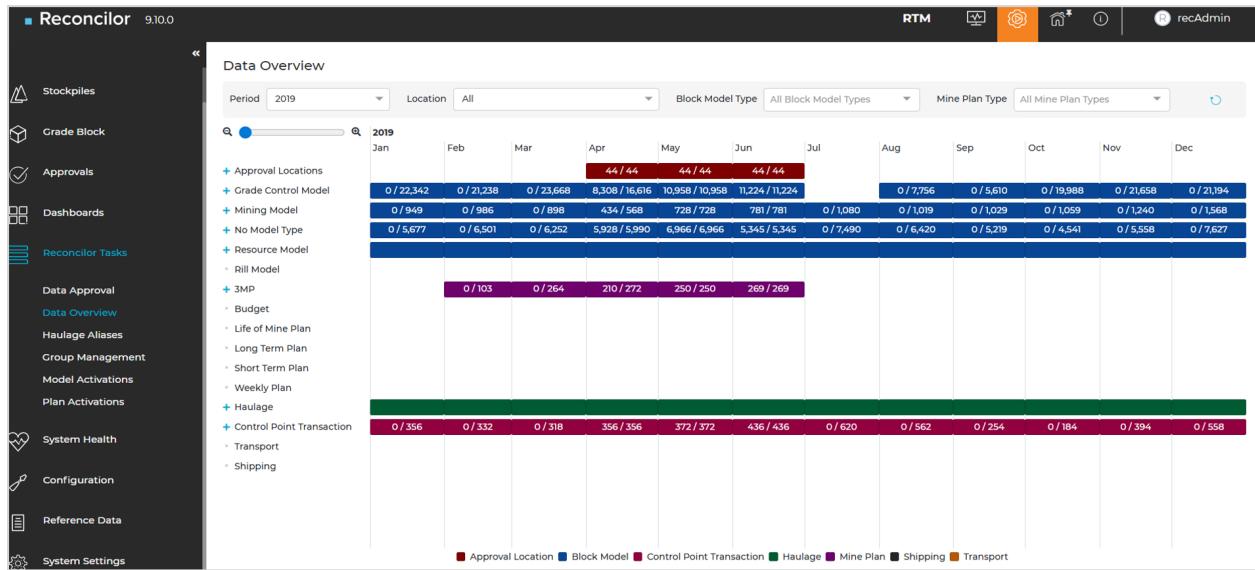
- **FY to Date** – Displays data from the start of the current financial year to today. This option aligns with the existing *Quarter* calendar control, where applicable.
- **Month to Yesterday** – Displays data from the start of the current calendar month up to yesterday.

These enhancements make it easier to run reports aligned with common operational time-frames.

Data Overview Screen Enhancement – View Approval Status by Period and Location

To improve transparency and reduce the time spent checking individual approvals, the **Data Overview** screen now displays approval status across selected periods and locations in a single view.

The **Data Overview** screen has also been moved to the **Reconcilor Tasks** section of the menu.



Key features include:

- **Period** filter – Functions in the same way as the **Data Approval** period filter and supports selection of multiple adjacent approval periods.
- **Location** filter – Mirrors the **Data Approval** location filter, allowing selection of *All* locations or a specific location level, including *Unknown* where applicable.
- **Approval Status** display – Clearly shows approval status for each selected period as the number of locations approved versus live, enabling quick, at-a-glance review without opening individual approvals. Selecting an approval period navigates directly to the **Data Approval** module with the relevant period and location preselected.
- **Models and Mine Plans** – All model and mine plan types are displayed by default, with the ability to navigate through location hierarchies. Record counts per period are shown as approved versus live.
- **Movement** data – Haulage, Plant, and Transport data are shown by default, with navigation through location levels and approved versus live record counts displayed per period.

Enhanced Online Help at Datamine Docs

We have enhanced Reconcilor's online help experience to give users direct access to detailed, multimedia-rich documentation.

- Clicking the information icon in the Reconcilor application now opens a new browser tab with relevant help content for the Reconcilor screen you are

using.

- The help content is now hosted on the Datamine Documentation website. This allows us to include rich media, such as videos and podcasts, to support you to learn and use Reconcilor.
- In addition to the information icon within Reconcilor, you can also access the full online help and release notes at
<https://docs.dataminesoftware.com/Reconcilor/>

This enhancement aims to make support and learning more accessible and engaging across the platform.

Defect Fixes

Data Health

- The **Data Health** table date field now uses a true date format (instead of a numeric value), allowing records to be sorted correctly in chronological order.
- An issue that prevented **Data Health** table filtering has been fixed. Table filtering is now fully functional.

Mining Compliance Chart

- At some sites, the **Mining Compliance Chart** on the **Mining Analysis** screen showed no values in the *Planned* and *Mined* column, even when the visualisation above clearly indicated strong alignment between planned and actual mining. This occurred because the underlying database query required mining to take place on the exact planned date, meaning any delay of one day or more caused affected locations to be excluded. The query has been updated to use a more practical approach, with locations now counted as *Planned* and *Mined* when both the planned and actual mining dates fall within the period selected in the analysis filter, providing results that better reflect operational reality. For example: block XYZ is planned for mining on the 28th of October and is actually mined on 30th October. If the user chooses a period filter of *October* then the mining of block XYZ will be included in the *Planned* and *Mined* column of the chart.
- When the **Mining Compliance Chart** was grouped by bench, the legend could display duplicate colours, making it difficult to distinguish between benches. The legend generation has been corrected so that each bench is assigned a unique colour, while still respecting any colours defined through the **Colour** configuration screen.

Configuration File Filters

- In the **Configurations** panel, the filters for **Private** and **Global** configurations in analysis modules did not behave as expected. Selecting **Private + Global** only displayed the current user's private configurations instead of also including global configurations, and users with the *-Administrate* permission could see all configurations regardless of the selected filter. Filtering logic and configuration visibility has been corrected so each filter option now behaves

consistently:

- **Private** shows only the current user's non-global configurations
- **Global** shows only global configurations
- **Private + Global** shows both
- **None** shows all configurations the user is permitted to access

Resolved Tickets – Reconcilor 9.10

The following tickets have been resolved since the last Reconcilor release version. For more information on individual cases, please refer to your online help or contact your local support representative.

Resolved Tickets – Features and Enhancements

- Data Approval - Global Approve Only
- Allow users to embed external dashboards within Reconcilor
- Colour Configuration - Location categories
- Continuum changes to accommodate larger number of metrics (comparison nodes)
- Data Approval - Location selector ALL for approvals
- Improvements to Grade Block model comparison
- Mining Analysis and Crusher Feed - data exports
- Mining Analysis: Allow displayed Mine Production 'Categories' to be configured
- Mining Compliance Chart should include total tonnes and percentage of all metrics
- Model Survey and Mine Plan reference data should be captured in the data warehouse
- Online Guidance to Flare
- Ordering on Trends screen chart x-axis
- Permission "Read Application Setting" breaks Reconcilor
- Stockpile Adjustment Import - Density validation rule does not identify stockpile or adjustment date
- Stockpile Analysis - add survey period to the configure panel chart time scale
- Stockpile Analysis - categorical attributes
- Stockpile Analysis - current status filter logic
- Support Live and Approved data on Mine Plan Activation Screen
- Support Live and Approved data on Model Activation Screen

- Suppressed stockpile Data Health issues should not be re-raised upon recalculation of balances
- Update Data Overview screen to display Approval Status
- Warehouse batches should contain complete parent hierarchy for warehoused locations

Resolved Tickets – Defect Fixes

- Users cannot access Trends screen without 'Comparisons - View' permission
- User IdentifyingClaim not updated when domain is updated through the Edit User screen
- Trends Crusher/Plant custom filters do nothing
- Trends - ordering when stacking on chart
- Trends - Comparisons won't display if stacking is on
- Stockpile Analysis Warehouse - Table only can incorrectly return no data
- Stockpile Analysis - grade activity chart - stockpiles as a summary line
- Stockpile Adjustment saved using date prior to entered date
- Security permissions are being overwritten on upgrade
- Resolve inconsistent convention with location-based colour assignments
- Pivot View source entity filter incorrectly shows 'All' when Unknown is selected
- Pivot view miscalculates comparisons when grouping on date related dimensions
- Pivot view - table sorting A-Z
- Pivot View - stockpile table totals incorrect
- Outliers screen can fail to load reference data and populate dropdown menus
- On Continuum an error occurs when filtering by survey/approval period if there is only 1 shift where start and end times are the same
- Mining Compliance Chart is too strict with application of planned mining periods
- Mining Analysis > Compliance diagram: duplicate colours in the legend when grouping by Bench
- Mine plan data issues displays incorrect dates
- Material Movement - not using set decimal places
- Maintenance Health Script returning false positives

- Log out events not captured in System Log
- Location display names not updated in warehouse reference data
- Incorrect EndDateShiftId used by Material Movements when using survey period filter
- Import failure notifications raised for passing imports
- Images created via report renderer not opening in browser as expected
- Haulage movements resolving against Model Cell source entities
- Extra custom block model types prevent Reconcilor upgrade
- Excel import failure on specific date scenario without direct ImportMappingRevisionField
- Data Health - table filters cause server error
- Data Health - stockpile falls below zero tonnes date field
- Crusher feed always queries live data only for actual movements
- Crusher feed - stockpile groups to exclude not working
- Crusher Feed - Not showing mine plans
- Continuum - new material types not populating filter
- Configurations referencing ComparisonValueTypes may be incorrectly found when trying to delete a Comparison
- Attribute sets not resolved on movements from stockpiles when split movements in batch
- Analysis screens - configuration list global and private
- Analysis screen configuration panels should auto-scroll to display drop-down contents
- Analysis module grid component renders empty field values with inconsistent row height
- Active Survey FactTransactions removed from Warehouse when switching the active model for a period
- 9.9.1 - vm-rec-test:8500 - Data Analysis - Trends - Unable to filter data using Material Type Group options under Custom drop down
- 9.9 - vm-rec-test2:8100 - Configuration - Integration - Operation Failed error appears when the user tries to Save a duplicate configuration
- 9.9 - vm-rec-test:8500 - System Settings - Import Definitions - unable to add an empty schedule
- 9.9 - vm-rec-test:8500 - Imports - Username is missing for the imported stockpile adjustment records

- 9.9 - vm-rec-test:8500 - Data Analysis - Model Comparison - Mining Model (Haulage) values are high
- 9.9 - vm-rec-test:8500 - Data Analysis - Mining Analysis - Stockpile groups to exclude drop down is not working
- 9.8/9.9 Trends &Models - Measures drop down is defaulting to empty upon first entry
- 9.8 Continuum waterfall is not using the Application settings continuum colours
- 9.8 - vm-rec-test:8600 - System Settings - Import Definitions - Import jobs are not listed under Apply Schedule to Import Definition drop down
- 9.8 - vm-rec-test:8600 - Reconcilor Tasks - Data Approval - Operation Failed error appears while loading Spatial Analysis configuration
- 9.7.1 Pivot view - no legend when only one value is selected in chart view
- 9.7.1 - vm-rec-test:8500 - Stockpiles - Adjustments - Attribute values are pre-populated in the Add Adjustment screen
- 9.6 - vm-rec-test2:8100 - Stockpiles - Stockpile Management - Unable to filter negative values in Wet Tonnes, Dry Tonnes and Volume columns
- 9.6 - vm-rec-test2:8100 - Reconcilor Tasks - Data Approval - Related months are not displayed under the selected year.
- 9.5.4 - vm-rec-test:8000 - Data Analysis - Crusher Feed - Incorrect validation appears when the selected period is only 3 years
- 9.5.3 - vm-rec-test:8000 - Stockpiles - Stockpile Management - Server error appears when the user tries to create a new stockpile without Opening Date.
- 9.5.1 - vm-rec-test:8000 - System Health - Data Overview - Server Error appears on click Apply Filters & Refresh icon
- 9.5.1 - vm-rec-test:8000 - Stockpiles - Stockpile Management - Server Error appears when the user clears the Opening Date for a stockpile
- 9.5.1 - vm-rec-test:8000 - Stockpiles - Bulk Adjustments - Data is not filtered based on the parameter selection
- 9.5 - vm-rec-test:8000 - Data Analysis - Spatial Analysis - Location drop down does not list the locations as expected
- 9.3.5 - 8000 - Regression - Stockpiles - Adjustments - Fail to retrieve stockpile with no group

Reconcilor 9.9 Release Notes

This **major version** update introduces several new features and improvements, aimed at enhancing the reconciliation process and overall user experience for key stakeholders. These updates provide tools to more effectively monitor site performance, allowing for earlier detection of issues and faster resolution.

Highlights in this release include:

- **External Integration module:** Users with appropriate permissions can set up an API call to the Reconcilor database for use in external software.
- **Increased precision:** Decimal places for tonnes, volume and grades on import have been increased to 8 decimal places (increased from 4).
- **Calendar control updates:** Automatically display current month and year rather than the last date available.
- **Quarter time period:** On the **Trends** and **Model Comparison** screens, quarter is now available as a time period.
- **Licence update:** Datamine have updated their terms and conditions.

New Features and Enhancements

External integration module

A new **Integration** screen allows authorised users to define and execute API queries against the Reconcilor data warehouse, making it easier to integrate Reconcilor data with external systems. Users can configure data sources, dimensions, measures, and filters, then save configurations as private or global, with optional locking for governance.

Configurations can also generate external URLs that return raw JSON data for use in third-party tools, providing a flexible and secure approach to real-time data integration.

Increased precision for imported data

Data imports in Reconcilor now support up to **8 decimal places for tonnes, volumes and grades**, improving accuracy and reducing rounding discrepancies in reconciliation and reporting.

This enhanced precision applies to all import methods, including manual uploads, automated imports, and API integrations, with no changes required to existing workflows or previously imported data.

Calendar control updates

Calendar controls have been updated to open by **default on the current month and year**, reducing unnecessary scrolling when selecting dates. Navigation and date handling otherwise remain unchanged, ensuring a smoother and more efficient user experience without impacting historical or future date selection.

New Quarter time period

Reconcilor now supports **Quarter** as a selectable time period in **Period** filters on all analysis screens and as a grouping option in the **Trends**, **Model Comparison** and **Pivot View** screens.

Quarters are calculated based on either calendar or financial year definitions (configured by Datamine consultants for your Reconcilor instance), enabling more flexible analysis and reporting across quarterly intervals.

Licence Update

Datamine has updated its **License Terms and Conditions** to improve clarity, align with current industry standards, and address data security, privacy, and regulatory requirements.

The updated terms apply automatically to all standard licence users and will be presented in-application for acknowledgement as part of this release, while customers with non-standard agreements remain unaffected.

The revised terms and conditions are available on the Datamine website at: www.dataminesoftware.com/software-license-and-subscription-agreement

Defect Fixes

Re-handle calculation rules update

Re-handle calculation rules have been refined to prevent Re-handle values from incorrectly including movements between plant and port stockpiles. Re-handle is now intended to include only movements between stockpiles defined in the Pre-crusher Stockpiles Entity Group.

Upgrade Instructions

To implement this change:

1. Update Configuration:
 - a. Modify the Comparison Value Type Rule configuration to ensure that both the source and destination stockpiles for Re-handle movements must belong to the 'Pre-crusher Stockpiles' Entity Group.
2. Update Material Movements Screen:
 - a. Apply the same filter on the Material Movements screen to ensure Re-handle movements displayed align with the updated rules (that is, only movements between Pre-crusher Stockpiles are considered).

User Log-In Event Tracking

User log-in events previously contained incomplete or inconsistently formatted user information, making it difficult to filter and trace activity during testing and audits. Log recording has been updated so user names are consistently captured in the **User** column, formatting in the **Primary Subject** column has been standardised, and filtering logic has been improved.

Material Type and Lithology Type Ordering on Analysis Screens

The **Pivot View**, **Trends**, and **Model Comparison** screens previously displayed material and lithology types in entry (ID) order rather than the configured display order, leading to inconsistencies with configuration screens. These analysis screens now respect the display order defined in the Material Types and Lithology Types Management screens, including any custom or alphabetical sorting.

Resolved Tickets – Reconcilor 9.9

The following tickets have been resolved since the last Reconcilor release version. For more information on individual cases, please refer to your online help or contact your local support representative.

New Feature

- External Integration Module
- Update EULA page to use new Datamine Terms and Conditions
- Report Designer - POC
- Increase the precision of tonnage/grade imports
- Trends/Models - add timescale by Quarter
- Designation (ore/waste) filter required on Grade Block List Continuum - Viewing Comparisons
- Pivot View - new open/closed stockpile status dimension and custom filter in stockpile table
- Application Settings / Approvals - read only
- PowerBI Spike solution
- Add new 'PreserveLatest' Mine Plan Import Activation Mode
- Calendar for month defaults too far into future
- View Grade Block – attributes
- Expand Sentry monitoring to cover additional events

Enhancement

- .net 7.0 deprecated from ms agent
- Material Movement - dataset in diagram drop down icon
- View Grade Block - Material type ordering on table
- Fix ongoing failures of the Analysis Modules Unit Tests pipeline
- Add Microsoft Word as an output option for reports
- Role groups - remove Legacy Rec 8 roles from UI
- Missing system event types for recent management-based APIs
- Help documentation updates

Defect Fix

- Pivot view - ordering of material / lithology types
- Trends charts - x-axis label
- Material Type / Lithology type ordering on analysis screens
- Movement calculator duplicates movements for insert events
- Pivot view incorrectly reports that the query configuration is incompatible
- When Creating a Stockpile Adjustment using attributes instead of grades it assigns the balance attributesetids wrong
- Stockpile Analysis - Total weighted avgs breaks when using attributes
- Fact type generation incorrectly assigns movement types
- ComparisonValue ETL fails for time periods containing >9999 shifts
- Configuration panel - global and private configs visible to all
- 9.9 Error while logging API call to the database
- Pivot grade colouring sourcing wrong colours
- 9.8 Pivot view chart - colour within control limits
- Engine is automatically starting on upgrade
- Maintenance health check last run not updating
- Attribute weighting quantity multipliers use incorrect ppmu
- Pivot View configurations containing a "Date Shift Id" custom filter trigger server errors
- Mine Plan Values that overlap approval periods do not pro-rata in the warehouse
- Material Movements screen not using mine plan value location tree for source location filtering when no resolved source entity
- Analysis screens do not determine the default activated mine plan upon reloading
- Pivot View 'Period' checkbox doesn't work correctly on first use after logging in
- System Log storage and performance issues
- Service queue deletions sometimes trying to delete too many at once, causing the database to lock up
- Grade Block Module - grade block name fields
- System Logs - missing user for raised events

- Analysis screen period filter moves back one day after refreshing/returning to page
- Material Movement - crusher received metric unticked
- 9.7 Material Movement - monthly plans
- Investigate adding tags to sentry logs
- Re-importing mine plans invalidates analysis screen configurations
- Login system log event does not consistently capture user name
- Default Import_Sync_Location_Level settings are not appropriate for most sites
- Re-handle Metric is not calculated correctly
- Add weighting quantity multiplier attribute calculations to pivot view
- Overlapping Mine Plans can be incorrectly activated when imported at the same time
- Unset filter location error on Spatial Analysis is unclear
- Configurations - Save as a blank config
- Redact import parameters section when adding a scheduled import job without parameter requirements
- Pivot stockpile cube queries adjustments as balances

Reconcilor 9.8 Release Notes

This **major version** update introduces several new features and improvements, aimed at enhancing the reconciliation process and overall user experience for key stakeholders. These updates provide tools to more effectively monitor site performance, allowing for early detection of issues and prompt resolution.

Highlights in this release include:

- **Global reconciliation comparisons:** New options to define reconciliation comparisons across the system, with customisation available for metrics and colours.
- **Reconciliation comparison tolerances and control limits:** Enhanced ability to define and configure tolerances and control limits for more accurate comparisons.
- **Stockpile Analysis enhancements:** Both raw and adjusted datasets are now available for more precise analysis.
- **Crusher Feed:** Additional categorical attributes can be selected to further refine data analysis.
- **Material Type/Lithology Type Group management:** Users can now create and manage groups directly through the user interface.
- **Menu enhancements:** A new menu for comparisons improves navigation and usability.
- **Mine Plan Activation:** A new filter has been added to distinguish active and inactive mine plans.
- **Contractor Name in Pivot View:** Contractor names are now visible in the Pivot View movement table, adding more context for data analysis

New Features and Enhancements

Defining global reconciliation comparisons

The reconciliation comparisons that were previously available on the **Continuum** are now defined in a new menu item called **Comparisons**. By defining the required comparisons in this screen, the **Continuum**, **Model Comparison**, **Trends** and **Pivot View** modules can directly reference this list in the appropriate filters. Users can no longer set these up dynamically on the **Continuum**.

Comparisons										
Add Comparison										
Comparison Name	Abbreviation	From Metric	To Metric	Tonnes & Volume Comparisons	Attribute Comparisons	Metal Comparisons	Chart Colour	Order Number		
Mine Delivered to Plant feed	MD - PF	Mine Delivered	Plant Feed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#95edb8	1		
Res - Gcm	Res - Gcm	Resource Model (Survey)	Grade Control Model (Survey)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#bab7b7	2		
Res to GC	RtG	Resource Model (Survey)	Grade Control Model (Survey)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#7ed988	4		
GC to Mining	GtM	Grade Control Model (Survey)	Mine Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#cb8f8f	5		
MP - CR	MP - CR	Mine Production	Crusher Received	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#d5cc91	7		
PF - MD	PF - MD	Plant Feed	Mine Delivered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#e14d4d	8		

By adding a comparison, a user with appropriate permissions can define a new comparison and specify applicable measures (tonnes, attribute and/or metal). The selected chart colour ensures all users view the comparison in the same colour across all modules. The chart colour can be updated as required via the **Configuration/Colours** menu item.

Add Comparison

[Save](#) [Cancel](#)

Comparison Name*	Resource to Mine Production	<input checked="" type="checkbox"/> Valid for tonnes & volume comparisons
Comparison Abbreviation*	Res to MP	<input checked="" type="checkbox"/> Valid for attribute comparisons
From Metric*	Resource Model (Survey)	<input checked="" type="checkbox"/> Valid for metal comparisons
To Metric*	Mine Production	
Chart Colour		
Order Number*	1	<input type="button" value="▼"/>

M_T and M_F denotes "To Metric" and "From Metric" respectively:

Actual Difference $\Delta = M_T - M_F$

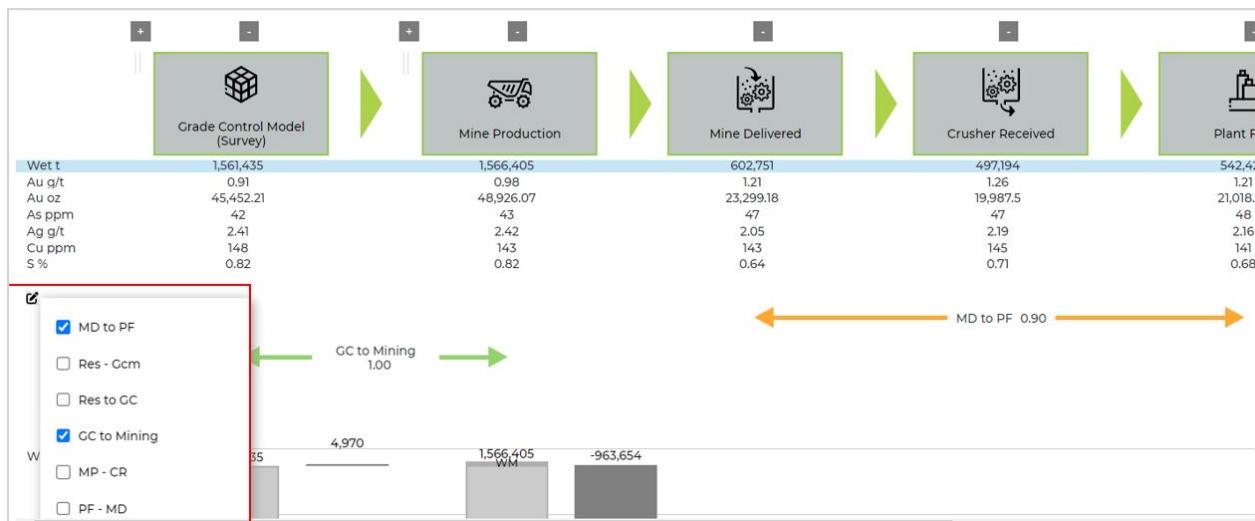
Factor = $\frac{M_T}{M_F}$

Percent Difference = $\frac{M_T - M_F}{M_F} \times 100 \quad \text{OR} \quad \frac{M_T}{M_F} - 1$

Note: The comparison calculation can use either the earlier or later metric on the mine value chain as the denominator. Notes at the bottom of the screen denote how the calculation is derived.

Viewing comparisons in Continuum

Filters have been updated in the **Edit Comparisons** box. Select the comparisons from the list, then select an attribute in the table to show the comparison ribbon for that attribute.



Viewing comparisons in Model Comparison and Trends

The **Configure Data** and **Configure Display** options on the right hand toolbar have been updated to allow users to display the saved comparisons.

The chart axes require either a comparison (factor or percentage change) or a value and allow selection of definitive attributes to plot.

The 'Configure Data' dialog box contains the following settings:

- Buttons: Apply, Apply & Close.
- Left Axis Type: Comparison(s) (selected).
- Right Axis Type: Value(s).
- Left Axis Unit: factor.
- Right Axis Unit: g/t.
- Left Measures: All items are selected.
- Right Measures: Au (g/t).

Selecting the **Data to include** in the datasets is determined by the **Category** and other filters (dynamic filtering), which is unchanged. Now, the comparisons returned in the list are only those relevant to the site (that is, they have been set up on the **Comparisons** screen).

Choose more data to include...

Category	Raw or Adjusted
Block Modelling	Select...
Block Model Type	Resource Model
Block Model	Select...
Data to Include	Select... Resource Model (Survey) Resource Model (Design) Res - Gcm Res to GC

The following new **Configure Display** options are available: chart type, colours, control limits and table control limit colours.

Left axis chart type	Right axis chart type
Line	Column
Chart colour preference	
Auto	
Include comparison control limits for	
Wet Tonnes (t)	
Apply comparison control limit colours to table values	
Disabled	

Viewing comparisons in Pivot View

Enhancements to the **Pivot View** allow the comparisons available in other analysis modules to also be used for analysis on this screen.

The **Configure Data** and **Configure Display** panel now display on the right hand configuration toolbar. This de-clutters the toolbar and helps users build queries more easily.

Sources are now: Movement, Stockpile and **Metric** (renamed from Comparison)

Selecting the metric name or metric abbreviation as a row or column makes the configured comparisons available for analysis.

Pivot View - Default Edited ...

Period: 01 Jan 2023 - 31 Jan 2023 - 01 Mar 2023 - 31 Mar 2023 Custom Metric Name x ▼

Custom Filters: Metric Name : 6 selected x Clear All Custom Filters

Month Name	Metric Abbreviation	Metric Name	Wet Tonnes
January 2023	GtM	GC to Mining	1.25
	MP - CR	MP - CR	0.32
	PF - MD	PF - MD	1.05
February 2023	GtM	GC to Mining	1.35
	MP - CR	MP - CR	0.26
	PF - MD	PF - MD	0.92
March 2023	GtM	GC to Mining	1.35
	MP - CR	MP - CR	0.28
	PF - MD	PF - MD	1.12

Values selected x ▲

Search ...

Clear Select All

- Resource Model (Survey)
- Grade Control Model (Survey)
- Mining Model (Survey)
- Mining Model (Haulage)
- Mine Production
- Mine Production (Adj)

Users can also colour the table using the tolerances defined in the **Configuration/Comparison Calculations** menu item. The image below shows a table and chart with tolerances enabled for both.

Pivot View - Default Edited ...

Period: 01 Jan 2023 - 31 Jan 2023 - 01 Mar 2023 - 31 Mar 2023 Custom Filter Dimensions ▼ Filter Dimension Values ...

Custom Filters: Metric Name : 6 selected x Clear All Custom Filters

Month Name	Metric Abbreviation	January 2023			February 2023			March 2023		
		GtM	MP - CR	PF - MD	GtM	MP - CR	PF - MD	GtM	MP - CR	PF - MD
		Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes
Metric Name	GC to Mining	1.25			1.35		1.35		1.12	
	MP - CR		0.32			0.26		0.28		
	PF - MD			1.05			0.92			

Metric	January 2023	February 2023	March 2023
GC to Mining	1.25	1.35	1.35
MP - CR	0.32	0.26	0.28
PF - MD	1.05	0.92	1.12

- January 2023 > GtM > Wet Tonnes
- January 2023 > MP - CR > Wet Tonnes
- January 2023 > PF - MD > Wet Tonnes
- February 2023 > GtM > Wet Tonnes
- February 2023 > MP - CR > Wet Tonnes
- February 2023 > PF - MD > Wet Tonnes
- March 2023 > GtM > Wet Tonnes
- March 2023 > MP - CR > Wet Tonnes
- March 2023 > PF - MD > Wet Tonnes

Defining the reconciliation comparison tolerances and control limit styles

The **Comparison Calculations** screen in Reconcilor is where the calculation type, number of decimal places, chart control limits and styles of the lines on the chart are configured. Charts in the **Comparison Calculations** screen displays a list with data shown in the image below.

Comparison Calculations								
Measure Type	Measure	Calculation Type	Decimal Places	2nd Upper Control Limit	1st Upper Control Limit	1st Lower Control Limit	2nd Lower Control Limit	Style Configuration
Measure	Dry Kilotonnes	Disabled						
Measure	Dry Tonnes	Percent Difference	0	15	10	-10	-15	Reg 9.8.1
Measure	Tonnes	Disabled						
Measure	Volume	Actual difference Δ	3	2.000	1.000	0.500	0.400	Reg 9.8
Measure	Wet Kilotonnes	Disabled						
Measure	Wet Tonnes	Factor	2	1.10	1.05	0.95	0.90	Default
Grade	Ag g/t	Percent Difference	0	15	10	-10	-15	Reg 9.8
Grade	Ag ton	Disabled						

Setting a comparison type as a percent difference or factor populates the measure, grade and/or attribute in the control limit fields. These are editable and are suggestions only.

If only one set of chart control limits is required, leave the other set blank.

The decimal places (up to 4) are configurable to maintain the required precision.

Changing a calculation type after it is first selected does not clear the control limit fields; they must be manually updated.

Saving applies only when actioned. To undo any changes, made prior to saving, select **Reset**.

All style configurations are set to use defaults and can be manually changed to a pre-configured style added via the **Control Limit Styles** screen.

Full dimension (metrics and comparisons) colour customisability

The **Colours** screen allows a user with the appropriate permissions to configure the colour across a range of categories (metrics, comparisons, attributes, and so on).

Configured colours are used across all charts in the analysis modules. This is the central place to manage colours, rather than on each individual screen so that colour uniformity exists across all charts and for all users.

The **Colours** screen displays a list with the following data as shown in the image below.

Colour Configuration				
	Category	Category Value	Colour	Status
<input type="checkbox"/>	Block Model Type	Custom Model Type 3		Assigned
<input type="checkbox"/>	Block Model Type	Grade Control Model		Assigned
<input type="checkbox"/>	Block Model Type	Mining Model		Assigned
<input type="checkbox"/>	Block Model Type	No Model Type		Assigned
<input type="checkbox"/>	Block Model Type	Reserve Model		Assigned
<input type="checkbox"/>	Block Model Type	Resource Model		Assigned
<input type="checkbox"/>	Block Model Type	Rill Model		Assigned
<input type="checkbox"/>	Comparison	GC to Mining		Assigned
<input type="checkbox"/>	Comparison	Mine Delivered to Plant feed		Assigned
<input type="checkbox"/>	Comparison	MP - CR		Assigned
<input type="checkbox"/>	Comparison	PF - MD		Assigned
<input type="checkbox"/>	Comparison	Res - Gcm		Assigned

Note: Remove Selected in the top filter removes the colour assigned to the category value and change the status to *Unassigned*.

Colours that were defined in the material type of **Lithology Type** screens are shown in the colour configuration screen. They can be changed in either screen.

Use the **Category** or **Status** column filters to easily navigate the comprehensive list.

Stockpile Analysis - raw and adjusted datasets available

The **Stockpile Analysis** screen now provides the option to view *Raw* or *Adjusted* balances.

Configure Display X

↻ [Apply](#) ↻ [Apply & Close](#)

View Mode

Raw or Adjusted

Note: Adjusted balances are **not** adjustments. Rather, this is a rescaled 'adjusted' value based on another value (that is, crusher weightometer value is being used to rescale parcels of reclaimed stockpile material).

The adjusted dataset is a custom dataset created by Datamine consultants for your site. Not all sites have an adjusted dataset, in which case raw is the same as adjusted.

Crusher Feed - Categorical attributes available

All attributes available in your Reconcilor instance can be selected in the **Secondary Measure** filter of the **Crusher Feed** screen.

Configure X

↻ **Apply** ↻ **Apply & Close**

Mine Plan Type
Weekly Plan

Mine Plan
Default Activated

Primary Measure
Wet Tonnes

Secondary Measure
Au g/t

Direct Feed Grouping
Source Mining Complex

Stockpile Feed Grouping
Source Material Type

Show Outliers

Material type/ Lithology type Group creation/management in UI

Two new menu items under **Reference Data** allow users with appropriate permissions to manage (add, edit, delete) material type or lithology type groups.

To create a new material type group, navigate to the screen and select **Add material type group**. You can then enter a name and assign a colour (for charting) to the group.

Add Material Type Group

[Save](#) [Cancel](#)Name* Colour Unassigned

To assign membership to the material type group, navigate to **Material Types** and on the material type name, select the edit icon. This displays the **Edit Material Type** screen to update the group. A material type or lithology type can only belong to one group.

Edit Material Type - High Grade

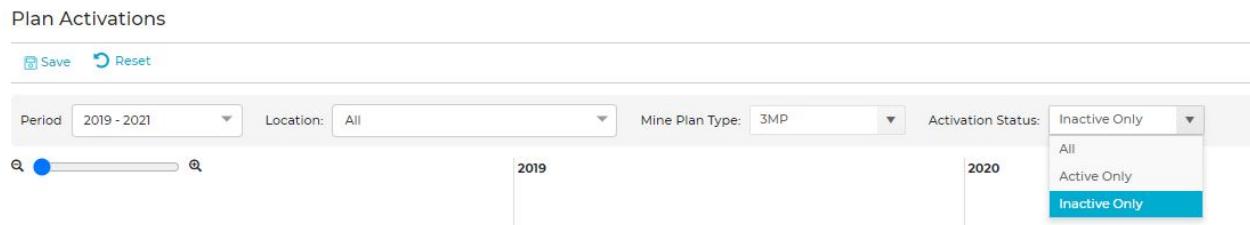
[Save](#) [Delete](#) [Cancel](#)Name* High GradeAlternative Name 5Abbreviation HGGroup* Material x ▾Colour UnassignedOrder Number* 1Designation* Ore x ▾Status* Active x ▾

Updated menu item for comparisons

The **Configuration** menu now includes all comparisons configurations, while the new **Reference Data** menu allows updates to essential reference information such as material types, lithology, crushers, plants, and more. These updates aim to maintain an intuitive and user-friendly interface.

Mine Plan activation - new filter for active/inactive mine plans

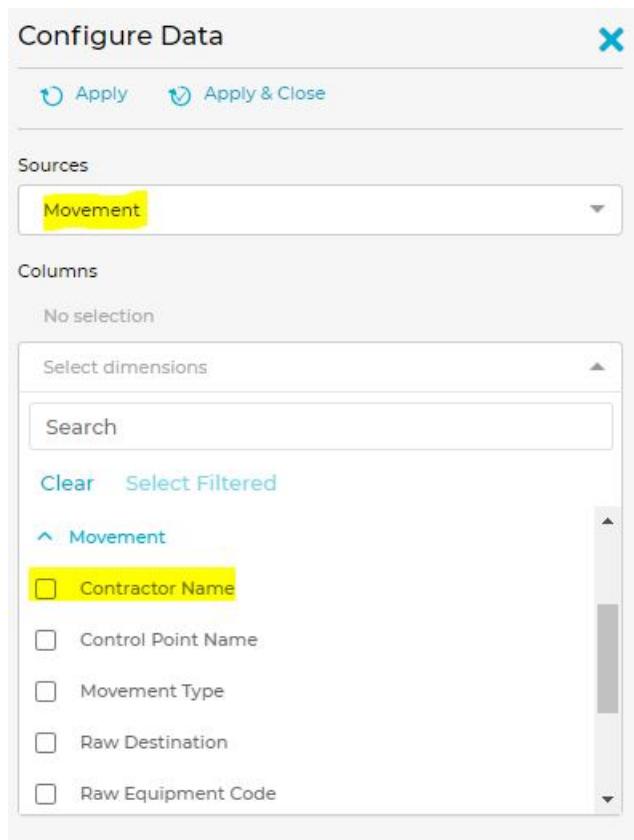
The **Plan Activation** screen now provides a new **Activation Status** filter for **All**, **Active Only** or **Inactive Only** plans. Apply the correct filter to return the required data.



The screenshot shows the 'Plan Activations' interface. At the top, there are 'Save' and 'Reset' buttons. Below them are filters for 'Period' (2019 - 2021), 'Location' (All), 'Mine Plan Type' (3MP), and 'Activation Status'. The 'Activation Status' dropdown is open, showing three options: 'All', 'Active Only', and 'Inactive Only'. The 'Inactive Only' option is highlighted with a blue background. The main area shows a timeline from 2019 to 2020 with a search bar below it.

Contractor name available in Pivot View movement table

The **Contractor Name** can now be selected from the **Movement** dimension group to display in the **Pivot View** movement table. The **Contractor Name** is also available as a custom filter.



The screenshot shows the 'Configure Data' dialog box. In the 'Sources' section, 'Movement' is selected. In the 'Columns' section, the 'Select dimensions' dropdown is open, showing a search bar and a list of options. The 'Movement' dimension group is expanded, showing several filter checkboxes. The 'Contractor Name' checkbox is highlighted with a yellow background.

Pivot View - Default Edited ...

Period 01 Jan 2023 - 31 Jan 2023 - 01 Mar 2023 - 31 Mar 2023 ... Custom Filter Dimensions ... Fill

Month Name	Metric Abbreviation	Metric Name	Wet Tonne	1	0	Data Shift ID
January 2023	GtM	GC to Mining				
	MD - CD	MD - CD				

Approval Status ...

Contractor Name ...

Control Point Name ...

Data Shift ID ...

Defect Fixes

- An issue has been fixed where the **Export All** function on the **Material Movement** and **View Grade Block** tables was non-responsive and did not export all records correctly. Users can now export all records with full precision (including high volumes of more than 1000) and round values in CSV/Excel as required.
- An issue has been fixed where selecting attributes in the **Continuum** could cause performance degradation at some sites.
- An issue has been fixed where **Pivot View** charts appeared squashed at the bottom of the screen when displayed with a table. Charts now make better use of screen space, with reduced margins improving the layout when both tables and charts are displayed.

Resolved Tickets – Reconcilor 9.8

The following tickets have been resolved since the last Reconcilor release version. For more information on individual cases, please refer to your online help or contact your local support representative.

New Features

- Full dimension colour customisability
- Allow the use of Windows credentials to install and run Reconcilor
- Material/Lithology Type Groups - Users to create and manage
- Comparison Management module
- Comparison Calculations
- Comparison Control Limit Colour Settings
- Continuum - Viewing Comparisons
- Additional Ordering of comparisons and metrics setting
- Continuum - Ordering of comparisons and metrics
- Trends - Ordering of comparisons and metrics
- Pivot View- Ordering of comparisons and metrics

Enhancements

- Relocate Reconcilor UI modules to Reconcilor repository
- Stockpile Analysis - Raw and Adjusted
- Crusher Feed - categorical attributes
- Data exports in pivot view retain the format (decimal places) as shown in the UI
- Mine Plan Activation Screen - New 'Activation Status' filter
- Exponentially back off the exceptions being raised by Reconcilor
- Contractor Name dimension missing from Pivot View
- Application settings / Reconcilor 8 compatibility - hide
- Trends/Model comparison - Configure Comparisons
- Trends/Model comparisons - View Comparisons
- Pivot View - Configure Comparisons
- Pivot View - Display Comparisons
- Reconcilor should add missing warehouse FactTypes automatically

- Additional Display Options for Trends Screen
- Missing grouping options on Mining Analysis Screen
- Enforce validation when attempting to delete referenced data related to comparisons
- Trends - colour preferences
- Pivot View - Add comparisons to metric type dimension
- Remove functionality related to Pivot Dimension Colour
- Restructure menu items under Configuration
- Move Crusher Feed Warehouse to Crusher Feed analysis route and remove old screen
- Help documentation updates

Defect Fix

- 9.5.1 - vm-rec-test:8000 - System Settings - Application Settings - Space is missing in the Continuum Settings screen
- 9.5.1 - vm-rec-test:8000 - Data Analysis - Pivot View - Operation Failed error appears when the Custom value is 'Mine Plan Start Date' / 'Mine Plan End Date'
- 9.6 - vm-rec-test2:8100 - System Settings - Import Schedules - Application allows the user to schedule a job with negative minutes
- Cowal - Bridging Haulage Import - causing duplicate grades
- 9.6 - vm-rec-test:8000 - System Settings - Import Schedules - Unable to navigate to View Schedule screen, when the minutes are in negative
- 9.6 - vm-rec-test:8000 - System Settings - Import Schedules - Incorrect validation appears though the parameter is not a mandatory field
- 9.6 - vm-rec-test:8000 - System Health - Import Health - Issues with Last recent Activity
- 9.6 - vm-rec-test:8000 - Stockpiles - Stockpile Management - Application goes into processing mode while adding a new stockpile
- 9.6 - vm-rec-test:8000 - Data Analysis - Model Comparison - Operation Failed error appears when the Designation value is blank
- 9.6 - vm-rec-test:8000 - Data Analysis - Continuum - Operation Failed error appears when the Designation value is blank
- 9.6 - vm-rec-test:8000 - Data Analysis - Continuum - Percent Change for Ag g/t, S% is showing incorrectly between Resource model and Grade Control Model

- 9.7 - vm-rec-test2:8100 - Stockpiles - Stockpile Management - Validation error appears in the Edit Stockpile screen, when Lithology Type is blank
- Pivot View (New) Difficult to select Values due limited vertical real estate within configuration panel
- Data exports - Current View only to export only what is visible in UI table
- Data exports - Export All will return all table values with full precision
- View Grade Block - Mining Activity table totals missing
- 9.7 - vm-rec-test2:8300 - Data Analysis - Pivot View - No validation appears when the period is selected as one year, also data does not display for the selected period
- Bug in warehouse ETL Processing when stockpile imported with no grades
- Continuum incorrectly displays grades that are configured with four decimals places
- 9.7 - vm-rec-test2:8300 - Data Analysis - Material Movement - Export All option is not working
- Right axis attributes not included in Trends / Model Comparison data table
- 9.7 - vm-rec-test2:8300 - Data Analysis - Model Comparison - legend icons are not in line with labels
- 9.7 - vm-rec-test:8500 - System Health - Data Issue Trends - Survey period dates are showing incorrectly on click Save link
- 9.7 - vm-rec-test:8500 - System Settings - Import Schedules - Unable to update empty schedule
- 9.7 - vm-rec-test:8500 - Configuration - Control Points - Duplicate control point validation appears incorrectly in the management grid
- 9.7 - vm-rec-test:8500 - System Health - System Logs - Column filters are not working in the grid
- 9.7 - vm-rec-test:8500 - Stockpiles - Stockpile Management - Last Adjustment (Shift) value is not populated
- 9.7 - vm-rec-test:8500 - Grade Block - View Grade Block - Operation Failed error appears when the user clicks on the 'Export All' option in the Block Survey table
- Crusher Feed or Mining Analysis queries without groupings and the hide unknown display option generate errors
- Enforce consistent colour interpretation with application settings
- Continuum performance is severely impacted when attributes are selected
- Stockpile Analysis - activity chart balance is disappearing at intervals

- Comparison calculation data cached by measures API call
- Imports - Exception has been thrown by the target of an invocation.
- Comparison calculations - pre-populate table
- Pivot view - charts are too small when chart and table is selected
- Removed comparison values still populated by dacpac
- Analysis query location filters on batch instead of fact transaction
- Pivot view pro-rata calculations not calculating grades or attributes correctly
- Unexpected reports of incompatible pivot query errors
- Model Cell Attribute import template fields incorrect

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