

■ Reconcilor

Release Notes

Reconcilor v 9.6.0

Table of Contents

1.	What's New for Reconcilor 9.6.0.....	2
2.	New Features	3
2.1	Locked configurations	3
2.2	Data Approval module	4
2.3	Approval Status	6
2.4	Categorical Attributes	7
2.5	Extended attributes in Pivot View	8
2.6	Enhancements to the grade block module.....	8
2.7	Stockpile management screen.....	10
3.	Resolutions	11
3.1	Stockpile adjustments and edits.....	11
3.2	Stockpile Analysis charts	11
3.3	Pivot view filters.....	11
4.	More Information	13
5.	Feedback And Support.....	14
6.	Resolved Tickets – Reconcilor v 9.6.0	0
6.1	Resolved Tickets.....	0

1. WHAT'S NEW FOR RECONCILOR 9.6.0

Reconcilor by Snowden Optiro is a software solution designed to consolidate and integrate the knowledge and data provided by mining engineers, geologists, metallurgists, and planners. By standardising operations across multiple mining sites, Reconcilor enables advanced analysis and offers guidance to troubleshoot and optimise these sites.

As a Commercial Off-the-Shelf (COTS) offering, Reconcilor provides a ready-to-use solution that can be implemented without extensive customisation or development. It is designed to enhance and potentially replace previous versions of the product by offering additional functionality and improvements.

Reconcilor serves as a valuable tool for key stakeholders involved in mining operations, both on-site and at head office. It provides them with a comprehensive view of how operations are performing, allowing them to quickly identify any issues and receive early notifications. With this information at their disposal, stakeholders can take prompt action to resolve problems and improve overall operational efficiency.

This is a **major version** update for Reconcilor. It is focused on the following new features:

- New “Data Approval” module
- Live, Approved and combined datasets
- Categorical attributes
- Extended attributes available on custom comparison value types in the pivot view
- New and requested features added to the grade block list and view screens

2. NEW FEATURES

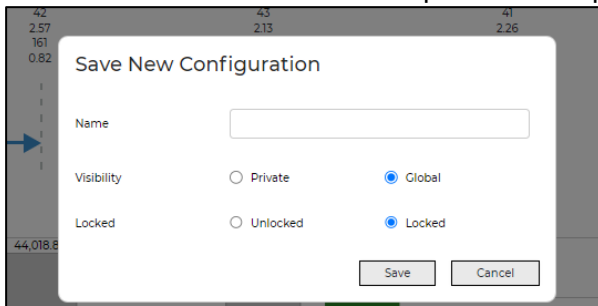
2.1 Locked configurations

During the rollout of the new Data Approval module, Reconcilor has been improved to incorporate a "locked" configuration feature. This setting restricts any modifications unless unlocked by a user with appropriate permissions. Once set to locked, it can seamlessly integrate into the Data Approval module, facilitating approval for a designated period and safeguarding against any unauthorized alterations to the data.

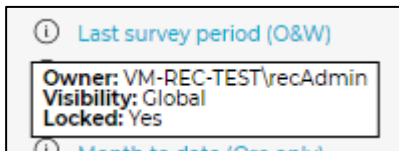
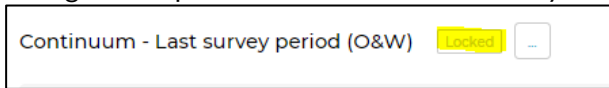
Locking configurations

A configuration can be locked / unlocked using the following methods:

1. "Save as" Global and locked and provide a unique configuration name

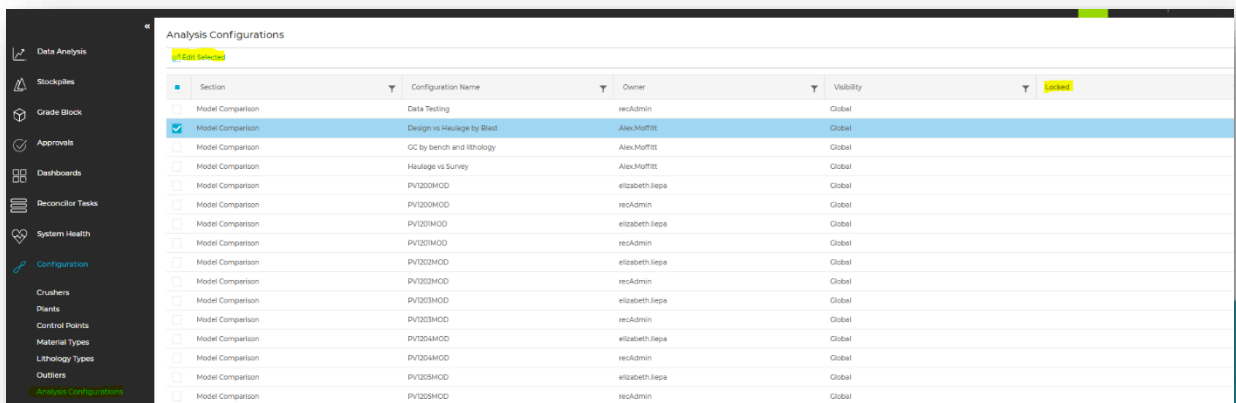


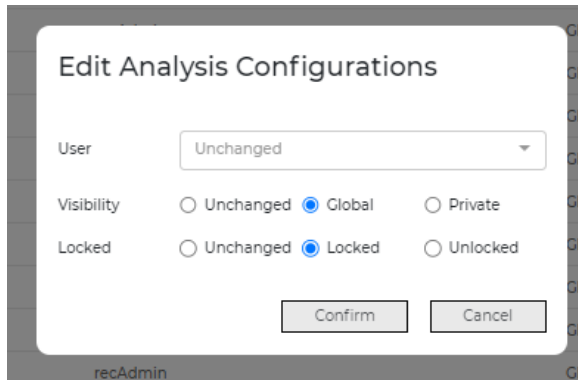
The name will then have a "locked" label associated with it and the tool tip on the configuration panel will state Locked visibility.



2. If permissions permit, navigate to Configuration on the main menu, then select Analysis Configurations (Figure 1). From here, you have the option to toggle a configuration between locked and unlocked states. Locking a configuration makes it accessible to the Data Approval module, while unlocking allows modifications to the original configuration. It's important to note that unlocking a configuration renders it unavailable to the Data Approval module.

Figure 1 Configuration / Analysis Configuration management

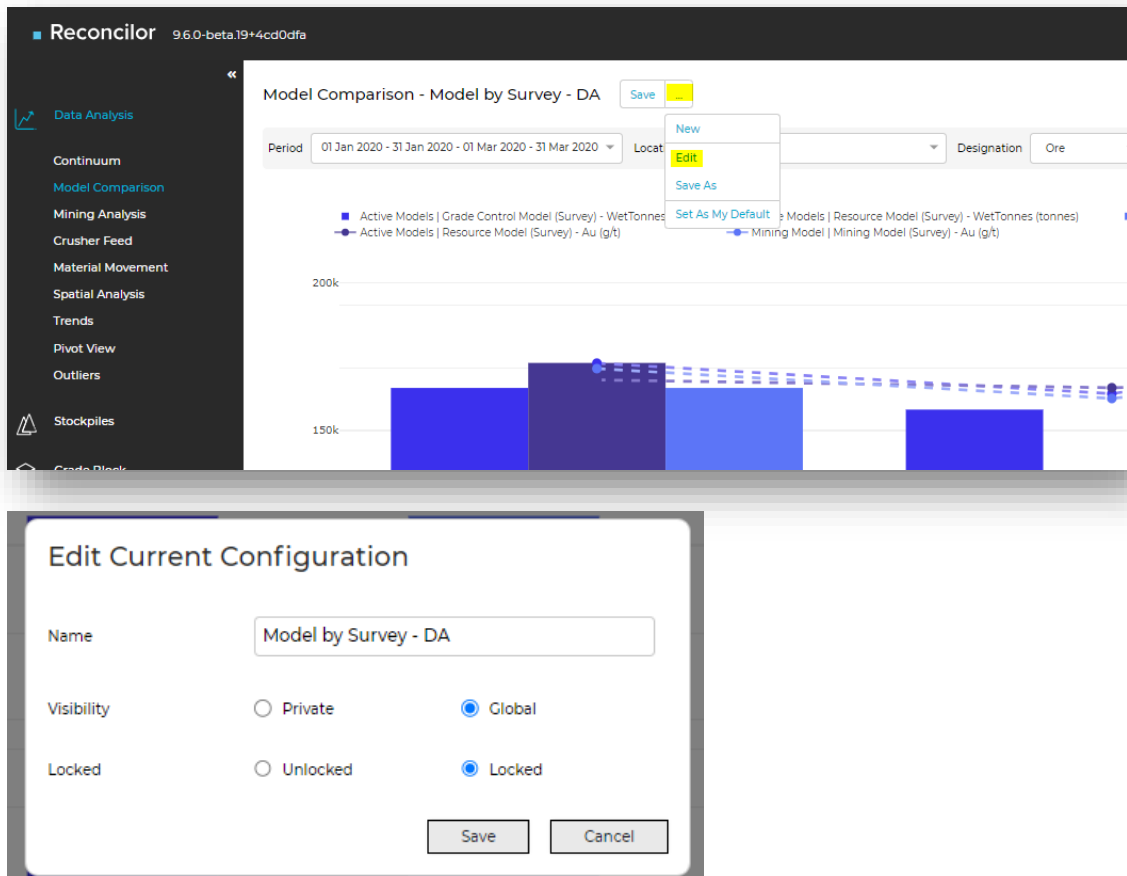




Note that the Analysis Configuration settings allow owners of configurations to be updated if required.

If the owner of the configuration has appropriate security permissions, they can assign a configuration to global and locked on the individual module configuration through Edit.

Figure 2 Locking a configuration through a standard screen



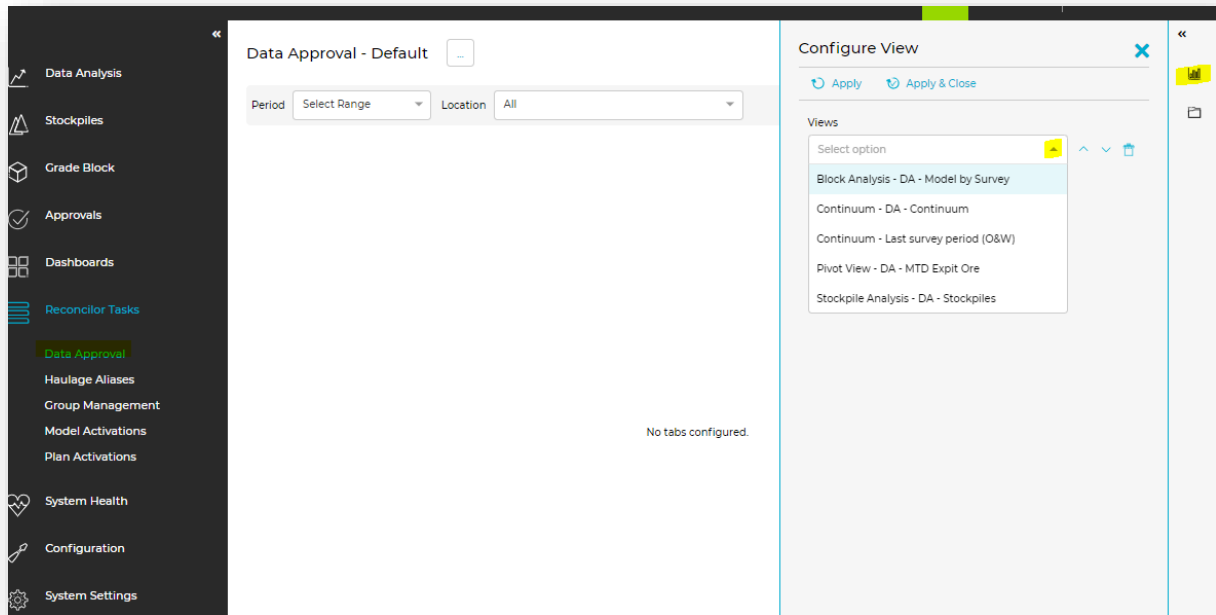
2.2 Data Approval module

Data Approval configurations are constructed from compositions of configurations, represented as views saved from all analysis modules except Dashboard and Data Approval. To be eligible for selection within Data Approval, a module configuration must be flagged as global and locked. These properties can be adjusted either through the menu adjacent to a configuration's title or using the Analysis Configurations screen.

When a configuration is locked, certain configuration management interface elements will be concealed, as per design specifications. Users will receive warnings to alert them of this restriction if they attempt to modify a locked configuration unaware of its status.

The Data Approval screen is accessible from the main menu under the Reconciler Tasks section. This screen can only designate one configuration as the "master" approval screen, allowing for the saving of only one locked configuration. It's essential for the Data Approval screen to be in a locked state to facilitate the "approval" of data.

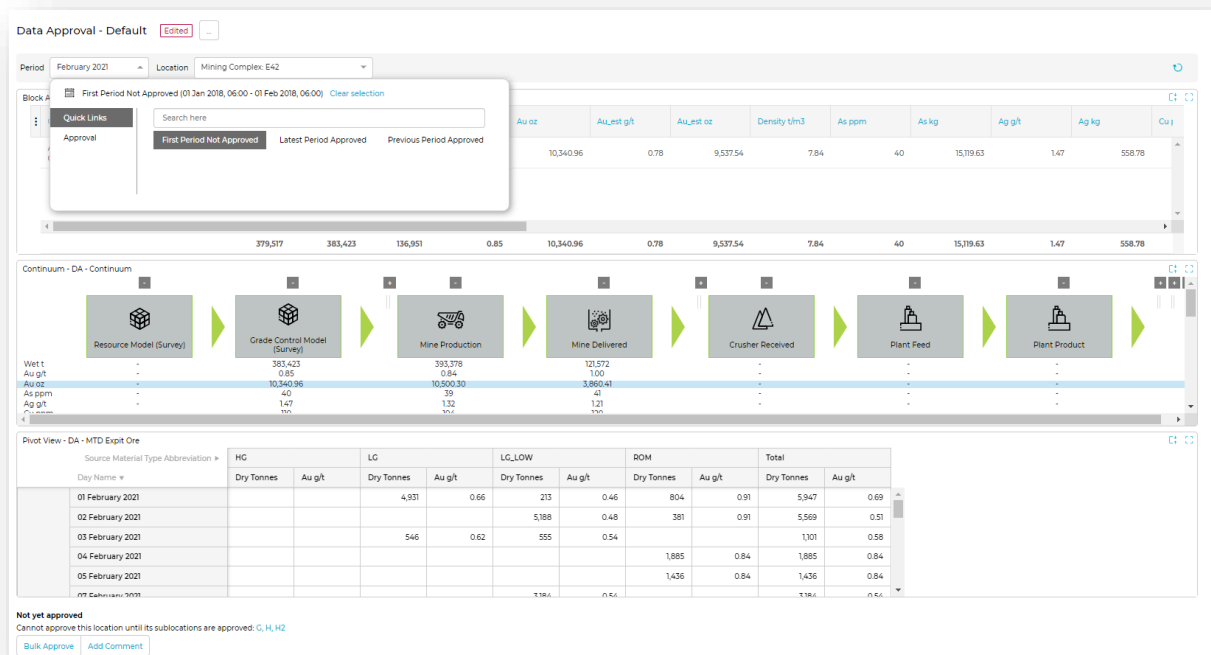
Figure 3 Setting up the Data Approval Screen – Security permissions required



Select the period and location for the approval. Please note that the location **MUST** be set, it cannot be ALL or Unknown for the Data Approval module to return data.

There are some approval quick links that can be used, or the approval periods (only one approval period can be selected at a time).

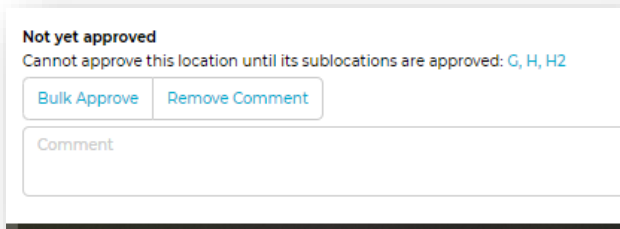
Figure 4 Data Approval period



Not yet approved
 Cannot approve this location until its sublocations are approved: G, H, H2
[Bulk Approve](#) [Add Comment](#)

When all data is ready to be approved, there is an opportunity to add a comment before the Approve or Bulk Approve process is initiated. This is located in the bottom left corner of the Data Approval screen.

Figure 5 Data Approval process is initiated



2.3 Approval Status

This version of Reconcilor introduces the notion of approved data. Through the Data Approval Module, users can endorse a specific period of data for a location, effectively preventing any further modifications to that data. This feature enables the generation of reproducible reports at any point in the future.

Reconcilor will continuously update the latest imported data within the defined lookback period, maintaining a dynamic dataset. If updates are made to the data preceding the most recent approval period, the live dataset will reflect these changes.

Additionally, Reconcilor will offer the option to examine a combined dataset, comprising data locked in approved periods alongside unapproved data occurring after the approval period. This flexibility enables users to analyse various combinations of data: live only, approved only, or combined (approved + live post-approval period).

The options for live, approved, and combined datasets will be accessible through the top filter bar on select analysis screens, including continuum, model comparison, trends, and pivot view. Availability of the approval status on other screens will be introduced in a forthcoming release.

Figure 6 Approval status on Continuum

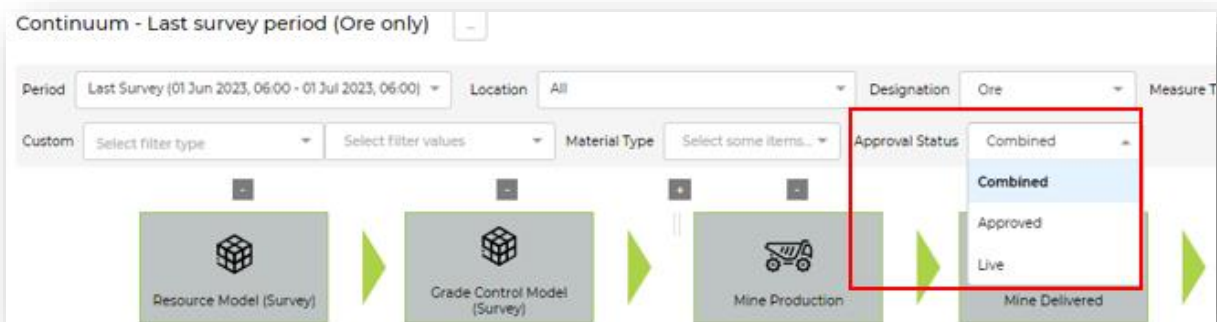


Figure 7 Approval status on Model Comparison and Trends

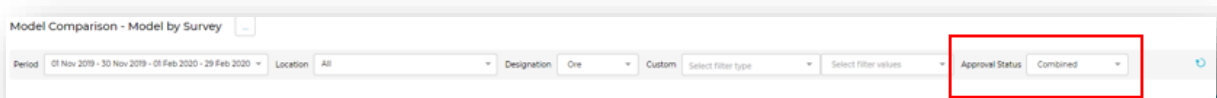


Figure 8 Approval status on Pivot View custom filter

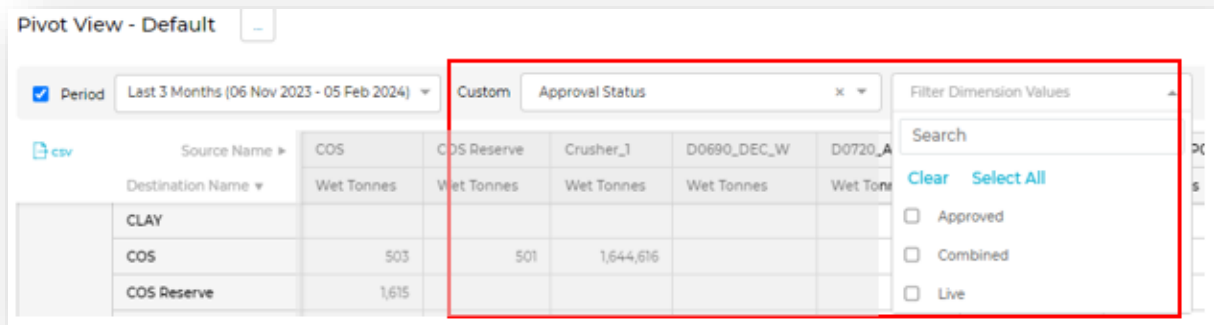
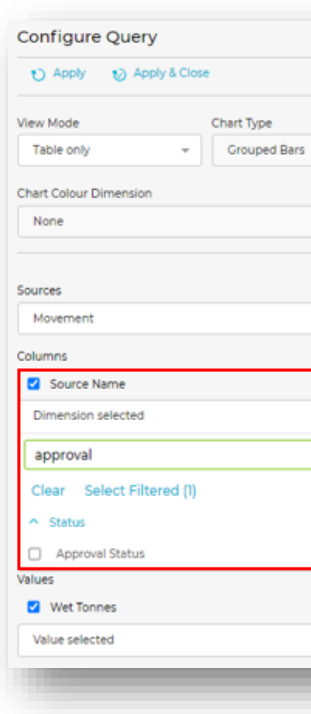


Figure 9 Approval status on Pivot View configure query dimension selection



The Approval Status has been placed in the Status category. Easily located by typing approval into the search bar on the dimension column or rows. This will allow you to show live, combined and approved as separate columns/rows for comparison.

2.4 Categorical Attributes

Attributes are organised into groups (defined by records in the Attribute Group table) and each group represents:

- a set of continuous attributes (such as grades)
- a list of categorical values from which only 1 may be assigned
- A hierarchy of categorical values
- a list of categorical values of which multiple may be assigned proportionally (useful when not mutually exclusive)

2.5 Extended attributes in Pivot View

In order to display a closed date on a grade block (digblock), it's crucial to import that date from a source file or database. If this field is required and accessible in Reconcilor, please contact support, and the import revision can be adjusted accordingly.

2.6 Enhancements to the grade block module

The grade block module has had several enhancements to both the grade block list and view grade block screens.

Grade block list

1. Closed date column has been added to the end of the table.

To display a closed date on a grade block (digblock), it's essential to import that date from a source file or database. If this field is necessary and available in Reconcilor, please reach out to support, and the import revision can be updated accordingly.

Figure 10 Closed date column on block import

Destination Field	Destination Data Type	Required	Source Primary Key	Mapping Type	Source Table Name	Source Field	Source Data Type	Source
▼ STAGE/BLOCKNAME								
Ag	Decimal			Direct	Tablet	ag	Decimal	
As	Decimal			Direct	Tablet	g_as	Decimal	
Au	Decimal			Direct	Tablet	au	Decimal	
Au_As	Decimal			Direct	Tablet	au_as	Decimal	
Au_AuAgfle	Decimal			Direct	Tablet	au_auagefle	Decimal	
Au_ast	Decimal			Direct	Tablet	au	Decimal	
AuB	Decimal			Direct	Tablet	AuB	Decimal	
BlockAlternativeName	String			Direct	Tablet	BlockAlternativeName	String	
BlockExternalSystemId	String							
BlockName	String	<input checked="" type="checkbox"/>		Direct	Tablet	BlockName	String	
BW1	Decimal			Direct	Tablet	BW1	Decimal	
CentroidX	Decimal							
CentroidY	Decimal							
CentroidZ	Decimal							
ClosingDate	DateTime			Direct	Tablet	ClosingDate	DateTime	
ClosingDateShiftId	Int32							

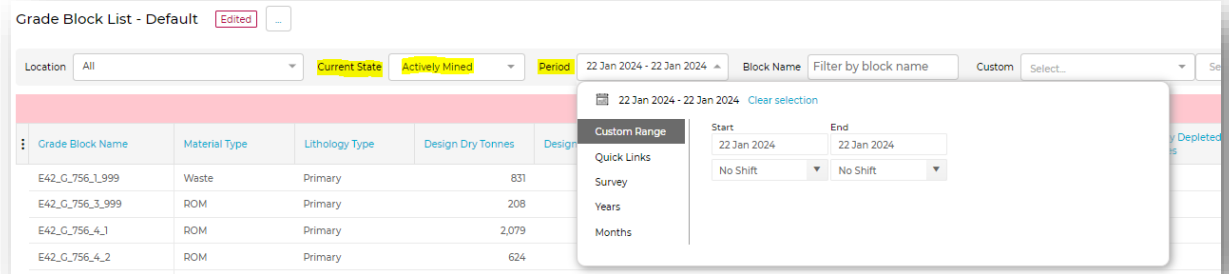
If this field isn't relevant to your site, you have the option to hide the column. It's important to note that the closed date will only be visible here and has been included to aid in filtering a suitable grade block list.

Figure 11 Closed date column on Grade Block List table

Grade Block Name	Survey Depleted Dry Tonnes	Survey Depleted Wet Tonnes	Remaining Dry Tonnes (Survey)	Remaining Wet Tonnes (Survey)	Remaining Dry Tonnes (Haulage)	Remaining Wet Tonnes (Haulage)	Remaining Dry Tonnes (Combined)	Remaining Wet Tonnes (Combined)	Mining Commenced	Last Haulage	Closed Date
Export Current View	831	840	0	0			0	0	30 Sep 2019		
Export All	208	210	0	0			0	0	30 Sep 2019		
Columns					83	89			29 Sep 2019	29 Sep 2019	
Remaining Volume (Combined)	3,534	3,570	208	210	-1,017	-978	208	210	29 Sep 2019	29 Sep 2019	
Mining Complex	4,357	4,200	-2,286	-2,310	-2,625	-2,606	-2,286	-2,310	29 Sep 2019	29 Sep 2019	
Stage	1,455	1,470	-1,247	-1,260	-484	-482	-1,247	-1,260	28 Sep 2019	28 Sep 2019	
Filterch	1,455	1,470	0	0	659	674	0	0	28 Sep 2019	28 Sep 2019	
Blast					1,539	1,563			29 Sep 2019	29 Sep 2019	
Mining Commenced	1,039	1,050	-624	-630	-318	-313	-624	-630	27 Sep 2019	28 Sep 2019	
Last Haulage	4,989	5,040	-3,949	-3,990	-4,513	-4,502	-3,949	-3,990	28 Sep 2019	29 Sep 2019	
Closed Date	624	630	-208	-210	-2,753	-2,749	-208	-210	27 Sep 2019	27 Sep 2019	

- The **Current State** filter has an additional option called “Actively Mined” which will return any grade block that has been mined in the **Period** that has been selected. The purpose of this filter is to assist in returning a relevant grade block list.

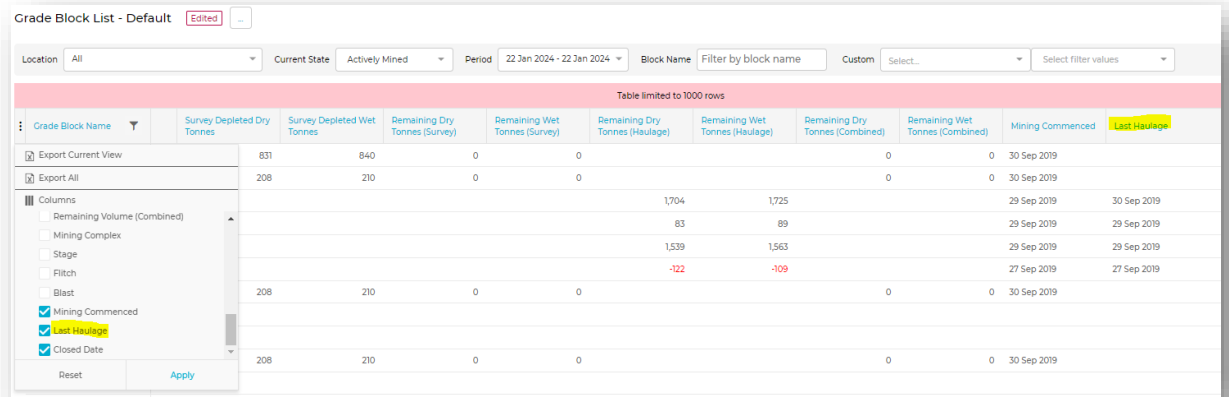
Figure 12 Current State filter – Actively Mined



- We have enhanced the usability of the grade block list by introducing a new column titled "Last Haulage." This column displays the date of the most recent haulage recorded by Reconcilor for each grade block, based on the current state and selected period.

If this field is not relevant to your site, the column can be hidden.

Figure 13 Grade Block List – Last haulage added to end of table

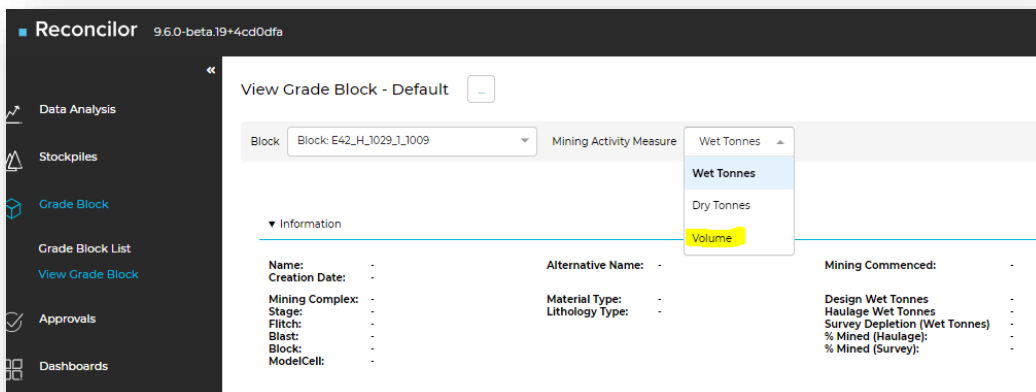


The last haulage date is also accessible on the "View Grade Block" screen. Simply select a grade block and scroll down to the bottom of the screen to locate the block haulage table. If "No grouping" has been chosen in the configure data panel, then the last haulage date will be displayed in the table.

View Grade Block

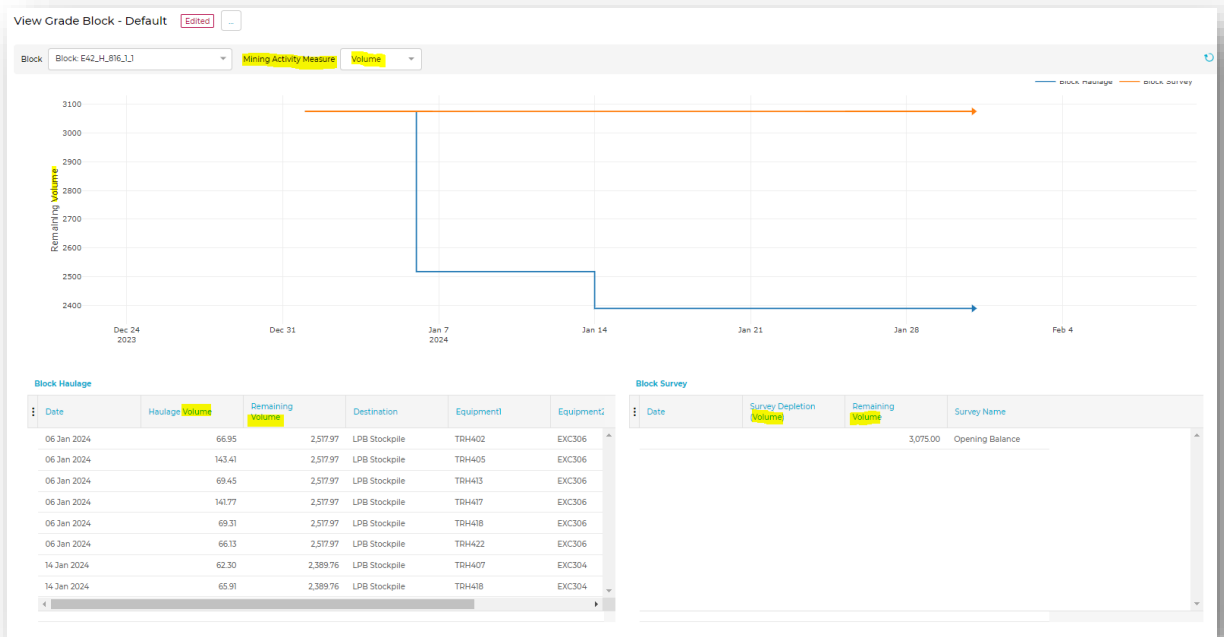
- Volume and dry tonnes are now available on the View Grade Block screen, in addition to wet tonnes.

Figure 14 View Grade Block – Volume as a measure



2. Volume or dry tonnes are now available to view on the mining activity tables and the chart will represent volume mined and surveyed, rather than dry tonnes or wet tonnes.

Figure 15 View Grade Block – Volume as a measure on the mining Activity Chart and tables



2.7 Stockpile management screen

The stockpile management screen now shows negative values in red, similar to the way the grade block screen displays negative values.

3. RESOLUTIONS

3.1 Stockpile adjustments and edits

Issue 1: Stockpile Adjustment Import fails completely rather than raising validation when duplicate adjustment is encountered

Resolution 1: Reconciler imports will reject any duplicate records encountered and raise these as validation errors.

Issue 2: Adjusting stockpile moisture causes Stockpile Balance service to crash

Resolution 2: Moisture adjustments can be made without services stopping.

Issue 3: Stockpile edit screen incorrectly reports that the location is not set

Resolution 3: Error does not display when location is set.

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

3.2 Stockpile Analysis charts

Issue: The chart on the Stockpile Analysis screen is not plotted correctly when a the following configuration options are used.

- Period Filter: One Calendar Month
- Time Scale: Month
- Chart Type: Activity
- Plot all stockpiles as a summary line

There is data shown in the data table but nothing plotted on the chart.

Resolution: Stockpile analysis now plots single x-axis data point results using markers for the balances subplot. Stockpile analysis adjustment marker style has been updated.

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

3.3 Pivot view filters

Issue: The pivot view currently aggregates data that doesn't always make sense when no filters/separation are applied on certain dimensions:

- raw and best measure movements
- stockpile balances
- approved and live data

Resolution: In order to prevent this, default filters should be added to the custom filter or dimensions:

- Movement Type: Raw
- Stockpile Balance Type: Raw
- Approval Status: Combined

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

4. MORE INFORMATION

The following general resources are available to help you use your product:

- **Integrated Online Guidance:** your product online guidance (information icon in top right of the User Interface Shell) is your first stop for assistance and contains a wealth of information, including the latest information about this version.
- **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:** The Datamine Support Portal allows you to get in touch with our global support teams for direct assistance with any software related issues.
<https://datamine.freshdesk.com/en/support/login>

The support portal also hosts the:

- Reconcilor FAQ's <https://datamine.freshdesk.com/en/support/solutions/Reconcilor/FAQ>
- Reconcilor Basic Troubleshooting
<https://datamine.freshdesk.com/en/support/solutions/Reconcilor/BasicTroubleshooting>
- **Latest version:** The latest 9.6.0 release version can be upgraded by contacting your Datamine or Snowden Optiro Reconcilor consultant.

Release notes are available at <https://docs.dataminesoftware.com/Reconcilor/index.htm>

5. 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

6. RESOLVED TICKETS – RECONCILOR V 9.6.0



A new feature



An enhancement to an existing function or feature










A bug fix

The following tickets have been resolved since the last released version of Reconcilor:















For more information on individual cases, please refer to your online guidance, or contact your local support representative.

6.1 Resolved Tickets

Issue key	Issue type	Summary
 SM-3462		Grade Block view - model comparison section
 SM-3639		Grade block list - closed date column
 SM-3962		All Sites: View Grade Block - Opening date of block after the first survey date
 SM-4003		View Grade Block screen - mining activity
 SM-4136		9.5 - vm-rec-test:8400 - System Health - Import Schedule - Application allows the user create schedules without any Import Job
 SM-4143		Enhancement: Grade block list Last mined column
 SM-4243		RMR Service crashes if it hits a Material Type that has a nullable Abbreviation or Alternative
 SM-4250		Check Maintenance Location Service does not delete Unknown LocationLevel1
 SM-4263		Grade Block List - Being actively mined
 SM-4265		Stockpile Adjustment Import fails completely rather than raising validation when duplicate adjustment is encountered
 SM-4266		9.4.3 - vm-rec-test:8700 - Stockpiles - Stockpile Management - Navigate away from current form validation appears
 SM-4276		9.4.3 - vm-rec-test:8700 - Configuration - Outliers - In Edit Outlier configuration screen, No fields appear for Absolute Start Month, Absolute End Month fields
 SM-4278		9.4.3 - vm-rec-test:8700 - System Health - Import Health - Unable to sort data in Last Run Date column
 SM-4287		9.4.3 - vm-rec-test:8700 - Dashboards - Model Comparison, Trends selected configs does not display data properly

	SM-4290	New ore type / material type classification
	SM-4324	Adjusting stockpile moisture causes Stockpile Balance service to crash
	SM-4325	Stockpile Edit screen incorrectly reports that the stockpile location not set
	SM-4332	Import Parameters section heading still appears on Add Import Job screen when all parameters are hidden and unable to save
	SM-4341	9.4.4 - vm-rec-test:8400 - Reconcilor Tasks - Haulage Aliases - Application allows the user to create duplicate Aliases
	SM-4343	9.4.4 - vm-rec-test:8400 - Grade Block - View Grade Block - Block Haulage grid column headings are not in line with Exported csv column headings
	SM-4346	9.4.4 - vm-rec-test:8400 - Data Analysis - Material Movement - File exported incorrectly when diagram field value is blank
	SM-4348	9.4.4 - vm-rec-test:8400 - System Health - Data Issue Trends - Screen auto refreshed when view mode is changed
	SM-4371	Snowden.Core.Reporting.Shared being incorrectly versioned as 9.2.0.0
	SM-4372	Analysis modules - save column width with configuration
	SM-4388	Stockpile management - negative balances show as red text
	SM-4402	9.5 - vm-rec-test2:8400 - Reconcilor Tasks - Haulage Aliases - No validation appears when duplicate Haulage Alias is added
	SM-4403	9.5 - vm-rec-test2:8400 - Reconcilor Tasks - Haulage Aliases - Navigate away validation does not appear as expected
	SM-4404	Role permissions - BHP specific permission coming up in my new 9.4.4 demo
	SM-4415	Server Error shown when non-Admin users click 'Pin Home Page' button
	SM-4433	MaintenanceDataHealthResult smallint causes service crashes
	SM-4437	Editing Import Schedule corrupts date parameters
	SM-4438	Scheduled imports with empty parameters not handled correctly causing import failure
	SM-4455	Model Comparison - categorical attributes
	SM-4456	Trends - categorical attributes

	SM-4474	Pivot View - Approved/Live/Combined
	SM-4476	Add Approved/Live/Combined filter to Continuum
	SM-4503	Add Approved/Live/Combined filter to Trends
	SM-4504	Add Approved/Live/Combined filter to Model Comparison
	SM-4534	Add Data Approval module to the Tasks menu
	SM-4535	Data Approval - Implement Filter Bar
	SM-4537	Data Approval - Module Configuration
	SM-4538	Data Approval - Section Configuration
	SM-4540	Data Approval - Verify and Approve
	SM-4541	Data Approval - Unapprove
	SM-4542	Analysis Configurations - Locking
	SM-4546	Data Approval - Documentation
	SM-4547	Data Approval - Existing Client deployments
	SM-4548	Data Approval - Rename Existing Approval Mechanism
	SM-4553	When editing a stockpile that is already assigned to a location it incorrectly warns you that no location is selected
	SM-4585	9.5.1 - vm-rec-test2 - Data Analysis - Pivot View - In Configure Query Sources, Columns, Rows, Values greyed out
	SM-4596	9.5.1 - vm-rec-test:8000 - System Settings - Import Schedules - Parameter values appear incorrectly as 'NaN'
	SM-4642	9.5.1 - vm-rec-test:8000 - Data Analysis - Pivot View - Custom option appears as 'Entity Entity Group Name'
	SM-4651	Chart not plotted on Stockpile Analysis Screen for a single month
	SM-4690	Pivot view - stockpile source Net Movement (adjusted)
	SM-4697	PanAust - Grade Block Detail- Summary in Dry Tonnes options

	SM-4709	Stockpile Analysis data point limit should be configurable
	SM-4712	9.5.3 - vm-rec-test:8000 - Online Help - System Health - System Logs - Online help navigates to Data Overview help page incorrectly
	SM-4713	9.5.3 - vm-rec-test:8000 - Online Help - Configuration - Material Types - 'here' link is missing to provide additional information
	SM-4716	Builds - RC not the same as the RTM
	SM-4725	Data Approval - Enable Approval Time Period Type
	SM-4732	categorical attributes - pivot view
	SM-4733	continuous attributes - pivot view
	SM-4740	Excel Imports not working
	SM-4748	Gold demo - View Grade block won't load
	SM-4750	Data Approval - Bulk Unapprove multi select
	SM-4785	9.5.3 - Production Telfer Pivot view wont load the default view, breaking all other pivot views
	SM-4802	Fix loading of pivot view configurations under unexpected conditions
	SM-4825	Add default filters to pivot view
	SM-4830	Warehouse - Net Adjustments - not calculating when no movements
	SM-4832	UI component errors preventing pivot view configurations from loading
	SM-4852	Services Crash - An item with the same key has already been added. Key: 338