



# QSCad v3 Siteworks takes Cut and Fill Measurement to a whole new level.

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<b>SITWORKS SETUP</b>		
Overlay and Align Existing and Proposed drawings	✓	<input type="checkbox"/>
Specify the calculation grid centres to suit the project/site	✓	<input type="checkbox"/>
Specify the centres at which to sample contours	✓	<input type="checkbox"/>
Specify the minimum number of points acceptable for the measurement of an area	✓	<input type="checkbox"/>
Select the depths categories to be used for excavation measurement with presets for		
SMM7	✓	<input type="checkbox"/>
CESMM3	✓	<input type="checkbox"/>
MMHW(4)	✓	<input type="checkbox"/>
POM(1)	✓	<input type="checkbox"/>
ARM3	✓	<input type="checkbox"/>
Specify the depth categories to be used for filling measurement	✓	<input type="checkbox"/>
Specify which siteworks information will be displayed together with colours etc.	✓	<input type="checkbox"/>
Specify Low and High parameters for siteworks information to trap errors	✓	<input type="checkbox"/>
<b>EXISTING SITE INFORMATION</b>		
<b>Existing Levels - Spot Heights</b>		
Enter existing levels by selecting spot heights on the CAD drawing	✓	<input type="checkbox"/>
Enter existing levels manually by identifying where they apply	✓	<input type="checkbox"/>
Specify an existing level for a user-defined area	✓	<input type="checkbox"/>
Amend previously entered levels	✓	<input type="checkbox"/>
Delete previously entered existing levels by selecting individual levels	✓	<input type="checkbox"/>
Delete previously entered existing levels within a user-defined area	✓	<input type="checkbox"/>
Delete all previously entered existing levels	✓	<input type="checkbox"/>
Import Finished Levels from a previous drawing as Existing Levels	✓	<input type="checkbox"/>
<b>Existing Levels - Contours</b>		
Enter existing levels by selecting and importing Contours	✓	<input type="checkbox"/>
Enter existing levels by tracing/drawing Contours	✓	<input type="checkbox"/>
Interpolate Contours to the levels grid	✓	<input type="checkbox"/>
Amend previously entered Contours	✓	<input type="checkbox"/>
Delete previously entered Contours	✓	<input type="checkbox"/>
<b>Topsoil Depths</b>		
Enter topsoil depths by selecting depths on the CAD drawing	✓	<input type="checkbox"/>
Enter topsoil depths manually by identifying where they apply	✓	<input type="checkbox"/>
Specify a user-defined area(s) where topsoil depths apply	✓	<input type="checkbox"/>
Amend previously entered topsoil depths	✓	<input type="checkbox"/>
Delete previously entered topsoil depths	✓	<input type="checkbox"/>
<b>Minimum Site Strip</b>		
Enter minimum strip depths by selecting depths on the CAD drawing	✓	<input type="checkbox"/>
Enter minimum strip depths manually by identifying where they apply	✓	<input type="checkbox"/>
Specify a user-defined area(s) where minimum strip depths apply	✓	<input type="checkbox"/>
Amend previously entered minimum strip depths	✓	<input type="checkbox"/>
Delete previously entered minimum strip depths	✓	<input type="checkbox"/>
<b>Water Table Levels</b>		
Enter water table levels by selecting depths on the CAD drawing	✓	<input type="checkbox"/>
Enter water table levels manually by identifying where they apply	✓	<input type="checkbox"/>
Specify a user-defined area(s) where water table levels apply	✓	<input type="checkbox"/>
Amend previously entered water table levels	✓	<input type="checkbox"/>
Delete previously entered water table levels	✓	<input type="checkbox"/>

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<b>Rock Levels</b>		
Enter rock levels by selecting depths on the CAD drawing	✓	<input type="checkbox"/>
Enter rock levels manually by identifying where they apply	✓	<input type="checkbox"/>
Specify a user-defined area(s) where rock levels apply	✓	<input type="checkbox"/>
Amend previously entered rock levels	✓	<input type="checkbox"/>
Delete previously entered rock levels	✓	<input type="checkbox"/>
<b>General</b>		
Import levels information from a file created in another drawing	✓	<input type="checkbox"/>
Export levels information to a file for use in another drawing	✓	<input type="checkbox"/>
<b>PROPOSED CONSTRUCTION AND LEVELS</b>		
<b>Construction Details</b>		
Create multiple user-defined libraries of standard Construction Details	✓	<input type="checkbox"/>
Create a user-defined drawing library of standard Construction Details	✓	<input type="checkbox"/>
Stores complete Construction Build-up including Descriptions and Depths to enable complete construction to be measured in one action	✓	<input type="checkbox"/>
Standard Library of Descriptions to assist in creation of Construction Build-ups	✓	<input type="checkbox"/>
Automatic inclusion of compaction items for granular materials	✓	<input type="checkbox"/>
<b>Measurement</b>		
Siteworks area measurement using mouse clicks as coordinates	✓	<input type="checkbox"/>
Siteworks area measurement using 'snapping' functions	✓	<input type="checkbox"/>
Undo last point facility	✓	<input type="checkbox"/>
Siteworks area measurement by copying a 'Basic module' area	✓	<input type="checkbox"/>
Assign Finished levels by selecting levels on the CAD drawing	✓	<input type="checkbox"/>
Assign Finished levels manually by identifying where they apply	✓	<input type="checkbox"/>
Assign Finished levels by interpolation between two known levels	✓	<input type="checkbox"/>
<b>Measurement Validation / Checking</b>		
Display Interpolated Finished Levels for a selected Siteworks Areas	✓	<input type="checkbox"/>
Display Interpolated Finished Levels for all Siteworks Areas within a user-defined area	✓	<input type="checkbox"/>
Display Interpolated Finished Levels for all Siteworks Areas	✓	<input type="checkbox"/>
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for selected Siteworks Areas	✓	<input type="checkbox"/>
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for all Siteworks Areas within a user-defined area	✓	<input type="checkbox"/>
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for all Siteworks Areas	✓	<input type="checkbox"/>
Obtain all levels information for a selected random point on the drawing	✓	<input type="checkbox"/>
Calculate average Existing Level for a user-defined area	✓	<input type="checkbox"/>
Calculate average Topsoil Depth for a user-defined area	✓	<input type="checkbox"/>
Calculate average Minimum Strip Depth for a user-defined area	✓	<input type="checkbox"/>
Calculate average Water Table Level for a user-defined area	✓	<input type="checkbox"/>
Calculate average Rock Level for a user-defined area	✓	<input type="checkbox"/>
<b>RESULTS</b>		
Create a Detailed Summary of measured items	✓	<input type="checkbox"/>
Select measurement layers to include in the Summaries	✓	<input type="checkbox"/>
Change the measurement layers included whilst viewing the Detailed Summary	✓	<input type="checkbox"/>
Full Audit trail from Summary back to measurements with Show Me facility	✓	<input type="checkbox"/>
Print Detailed Summary	✓	<input type="checkbox"/>
Export Detailed Summary to Excel	✓	<input type="checkbox"/>

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<b>RESULTS (Cont'd.)</b>		
Produce a Draft BQ in SMM7 format	✓	<input type="checkbox"/>
Produce a Draft BQ in CESMM3 format	✓	<input type="checkbox"/>
Produce a Draft BQ in MMHW(4) format	✓	<input type="checkbox"/>
Produce a Draft BQ in POM(I) format	✓	<input type="checkbox"/>
Produce a Draft BQ in ARM3 format	✓	<input type="checkbox"/>
Separate Minimum Site Strip quantities in Draft BQ	✓	<input type="checkbox"/>
Annotate Descriptions in Draft BQ	✓	<input type="checkbox"/>
Round quantities in Draft BQ	✓	<input type="checkbox"/>
Create and print a Grid Point Schedule detailing all known information for each and every grid point	✓	<input type="checkbox"/>
<b>GRAPHICAL OUTPUT</b>		
<b>Siteworks Information</b>		
Create, display and print Grid Point Information on the drawing	✓	<input type="checkbox"/>
Create, display and print Cut and Fill Lines for selected Siteworks Areas	✓	<input type="checkbox"/>
Create, display and print Cut and Fill Lines for all Siteworks Areas	✓	<input type="checkbox"/>
<b>Legend</b>		
Create one or more legends from the measurements within the drawing	✓	<input type="checkbox"/>
Select which items should appear in the legend	✓	<input type="checkbox"/>
Define the symbol size and the text height for legend items	✓	<input type="checkbox"/>
Position the legend on the drawing	✓	<input type="checkbox"/>
Move a legend	✓	<input type="checkbox"/>
Delete individual or multiple items from a legend	✓	<input type="checkbox"/>
<b>Drawing Header</b>		
Position a drawing header on the drawing	✓	<input type="checkbox"/>
Choose to include Project Title, Drawing Title, Visible Layers and Current Date	✓	<input type="checkbox"/>
Move a drawing header	✓	<input type="checkbox"/>
Edit a drawing header to select fonts, etc.	✓	<input type="checkbox"/>
<b>Printing a Drawing</b>		
Print to any Windows Printer	✓	<input type="checkbox"/>
Print Complete drawing	✓	<input type="checkbox"/>
Print an Area of the drawing	✓	<input type="checkbox"/>
Print the Current View	✓	<input type="checkbox"/>
Print to Fit Paper	✓	<input type="checkbox"/>
Print to Scale	✓	<input type="checkbox"/>
Print to span several sheets	✓	<input type="checkbox"/>
Full CAD engine printing functionality	✓	<input type="checkbox"/>
User defined margins	✓	<input type="checkbox"/>
User defined line widths	✓	<input type="checkbox"/>
Window and Full Page Print Previews	✓	<input type="checkbox"/>
<b>Siteworks Graphics</b>		
Shade and Print the plan to show values for...		<input type="checkbox"/>
Existing Levels	✓	<input type="checkbox"/>
Topsoil Depths	✓	<input type="checkbox"/>
Minimum Site Strip Levels	✓	<input type="checkbox"/>
Water Table Levels	✓	<input type="checkbox"/>
Rock Levels	✓	<input type="checkbox"/>
Finished Levels	✓	<input type="checkbox"/>
Formation Levels	✓	<input type="checkbox"/>
Cut and Fill	✓	<input type="checkbox"/>
Create and Print a 3D model, Section or Contour display to show...		<input type="checkbox"/>
Existing Levels	✓	<input type="checkbox"/>
Topsoil Depths	✓	<input type="checkbox"/>
Minimum Site Strip Levels	✓	<input type="checkbox"/>
Water Table Levels	✓	<input type="checkbox"/>
Rock Levels	✓	<input type="checkbox"/>
Finished Levels	✓	<input type="checkbox"/>
Formation Levels	✓	<input type="checkbox"/>

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<b>DATA ANALYSIS</b>		
Allocate user-defined filter(s) as part of the Measurement process	✓	<input type="checkbox"/>
Allocate user-defined filter(s) retrospectively by selection	✓	<input type="checkbox"/>
Allocate user-defined filter(s) retrospectively by defining an area	✓	<input type="checkbox"/>
Display details of any allocated user-defined filters on the Detailed Summary	✓	<input type="checkbox"/>
Display only measurements that meet user-defined filters criteria on Detailed Summary	✓	<input type="checkbox"/>
Special 'Select' Layer which may be populated with similar items or selected items	✓	<input type="checkbox"/>
Detailed Summary of items copied to 'Select' layer	✓	<input type="checkbox"/>
Consolidated Summary of items copied to 'Select' layer	✓	<input type="checkbox"/>
Graphical Output of items copied to 'Select' layer	✓	<input type="checkbox"/>
Ability to carry out 'what if' calculations by moving and recalculating Siteworks Areas	✓	<input type="checkbox"/>
<b>EDITING MEASUREMENTS</b>		
Edit a single measurement by selecting	✓	<input type="checkbox"/>
Edit multiple measurements by selecting	✓	<input type="checkbox"/>
Edit multiple measurements by defining an area	✓	<input type="checkbox"/>
Edit all items with the same description	✓	<input type="checkbox"/>
Move measured items	✓	<input type="checkbox"/>
Copy measured items	✓	<input type="checkbox"/>
Rotate measured items	✓	<input type="checkbox"/>
Delete a single measurement by selecting	✓	<input type="checkbox"/>
Delete multiple measurements by selecting	✓	<input type="checkbox"/>
Delete multiple measurements by defining an area	✓	<input type="checkbox"/>
Recycle Bin layer for all deleted measurements	✓	<input type="checkbox"/>
Restore deleted items from the recycle bin	✓	<input type="checkbox"/>
Edit Text	✓	<input type="checkbox"/>
Change Text Sizes	✓	<input type="checkbox"/>
Edit a point in an area measurement	✓	<input type="checkbox"/>
<b>RECALCULATION</b>		
Recalculate selected Siteworks Areas	✓	<input type="checkbox"/>
Recalculate selected Siteworks Areas within a user-defined area	✓	<input type="checkbox"/>
Recalculate all Siteworks Areas	✓	<input type="checkbox"/>
<b>OPTIMISATION</b>		
Optimise the Proposed Levels by Volume (balancing Cut and Fill)	✓	<input type="checkbox"/>
Optimise the Proposed Levels by Cost	✓	<input type="checkbox"/>
Specify the following Optimisation Settings...		<input type="checkbox"/>
The centres above and below the proposed levels to use for optimisation calculations	✓	<input type="checkbox"/>
Excavation costs for each depth category	✓	<input type="checkbox"/>
Excavated material Disposal Costs	✓	<input type="checkbox"/>
Minimum Site Strip Disposal Costs	✓	<input type="checkbox"/>
Extra over cost for excavating below Water Table level	✓	<input type="checkbox"/>
Extra over cost for breaking up Rock	✓	<input type="checkbox"/>
Additional Filling Types for each type of construction	✓	<input type="checkbox"/>
Filling Costs for filling under each type of Construction	✓	<input type="checkbox"/>
Recalculate ten possible siteworks scenarios based on Optimisation Settings	✓	<input type="checkbox"/>
View an Optimisation summary detailing the quantities and costs of the Cut and Fill based upon the Optimisation Settings	✓	<input type="checkbox"/>
<b>HELP SYSTEM</b>		
Windows Help system including index and search facilities	✓	<input type="checkbox"/>
Show Me' links from Help system to System Videos located on the QSCad website	✓	<input type="checkbox"/>
Manual available in Pdf format	✓	<input type="checkbox"/>
<b>USER MANAGEMENT</b>		
Release the Siteworks module licence so that others may use it.	✓	<input type="checkbox"/>
Find out who is using the Siteworks module licence.	✓	<input type="checkbox"/>

