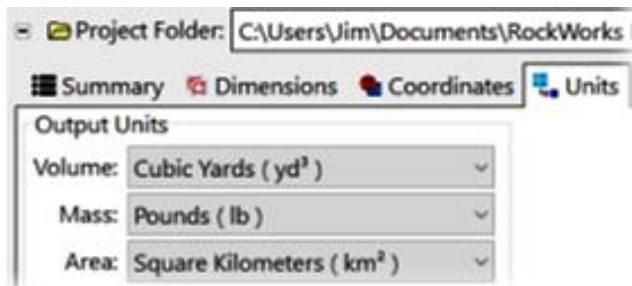


## Density Conversion Factor

The specified Material Density (aka Density Conversion Factor) is used to convert volumes to mass. After converting the volumes to the units specified within the Project / Units / Volume pull-down menu (see figure below), the program will multiply the result by the density conversion factor. The result will be listed within the report with whatever units were specified within the Project / Units / Mass pull-down menu.



The Extract program will list the required input using these two Project Output Units settings (Volume & Mass) as shown below.

Material Density:

Example: Consider an input model that was created in UTM meters (i.e., X, Y, & Z = meters) whereas the Output Volume is listed as Cubic Yards and the Output Mass is specified as Pounds. The material volumes will be internally computed as cubic meters and then converted to Cubic Yards and annotated accordingly. The volumes will then be converted to Pounds by multiplying the volumes by the density conversion factor and annotated accordingly as shown below.

Description	Results	Units
<b>Pit Shell:</b>		
Volume .....	244,143.0	Cubic Yards
Mass .....	39,063.003	Pounds
Depth .....	59.1	UTM Meters
Areal Extent .....	488,124.0	Square Kilometers
<b>Extracted Materials:</b>		
Ore Volume .....	154,622.0	Cubic Yards
Ore Mass .....	24,739.52	Pounds
Waste Volume .....	89,521.8	Cubic Yards
Waste Mass .....	14,323.483	Pounds
Stripping Ratio .....	0.579	Mined Waste / Mined U-235 Contaminated Soil
<b>User-Defined Parameters:</b>		
Maximum Depth .....	n/a	
Maximum Slope .....	-90.0	Degrees
Maximum Bench Height .....	n/a	
Minimum U-235 Contaminated Soil Value ..	30.0	PPM
Maximum U-235 Contaminated Soil Value ..	999.0	PPM
Maximum Acceptable Stripping Ratio .....	n/a	
Density Conversion Factor .....	0.16	Pounds Per Cubic Yards
<b>Unmined U-235 Contaminated Soil:</b>		
Volume .....	0.0	Cubic Yards
Mass .....	0.0	Pounds

In the event that the Output Units are changed while the Extract menu is open, the Refresh button can be used to update the Material Density description.