Creating a GPX or KML Lat/Long file from miniCAD

Reason – To upload coordinates to a handheld GPS or into Google Maps or Google Earth. I do this often on rural jobs so I can provide an upload file of survey marks placed to a client. Then they can easily navigate to these waypoints and find the marks I placed.

1. Export data from miniCAD in a CSV file format
2. Edit the data in Excel. Delete all columns except Name (either use number or code –it should be a unique identifier so codes can’t be duplicated) and East, North. Save the data in CSV format and then close Excel.
3. Use Zonum solutions free online converter at <http://www.zonums.com/online/coords/cotrans.php?module=14>
	1. From the left hand menu select UTM-Lat/Lon under BATCH CONVERSION
	2. Under Input Coordinates
		1. As the data is only being used in a handheld system WGS84 (the only option) is suitable.
		2. Select the UTM Zone (56 for Sydney) and Southern Hemisphere (for Sydney)
		3. Columns – Id,X,Y
		4. Separated by Comma
	3. Under Output Coordinates
		1. Select Lat/Lon
		2. Decimal Deg
		3. Decimals 6
		4. Separated by Comma
	4. Hit the UPLOAD FILE button at the top of the screen and select your file created in 2 above.
	5. Hit the TRANSFORM button at the top of the screen.
	6. Select all the data in the Output Window (CTRL-A) and copy it (CTRL-C).
4. Open GPS Visualizer on the Convert a GPS file to plain text or GPX from this link <http://www.gpsvisualizer.com/convert_input>
	1. Select GPX or KML as the output format as desired.
	2. Paste your data in the box on the screen leaving the top line intact. Delete the second line in the box (which was the top line from Zonums)
	3. Change the top line to Name, Latitude, Longitude
	4. Force Text Data to be of this type WAYPOINTS.
	5. Plain text delimiter COMMA
	6. Hit the CONVERT button at the top right of the screen
	7. Hit the Click to DOWNLOAD (filename) to save the filename.
5. Install Freeware program EasyGPS from <http://www.easygps.com/>
6. Double click on file created at 4g above and it will automatically open in EasyGPS showing the waypoints.
	1. Under Edit>>Preferences setup the GPS you use. Make sure you have the cable to connect it to your PC.
	2. Now select GPS>>Send to GPS and upload the Waypoints to the GPS.