Avenza GPS Introduction

- This slide series depicts the Avenza functions in Android – Apple products have the same features, but some of the icons are different or located in a different place on the screen.
- Avenza does not work on your computer.
- You will have to allow Avenza access to your Location and optionally to your Camera.

Step 1 Download the Avenza Maps App from your play store - do not purchase

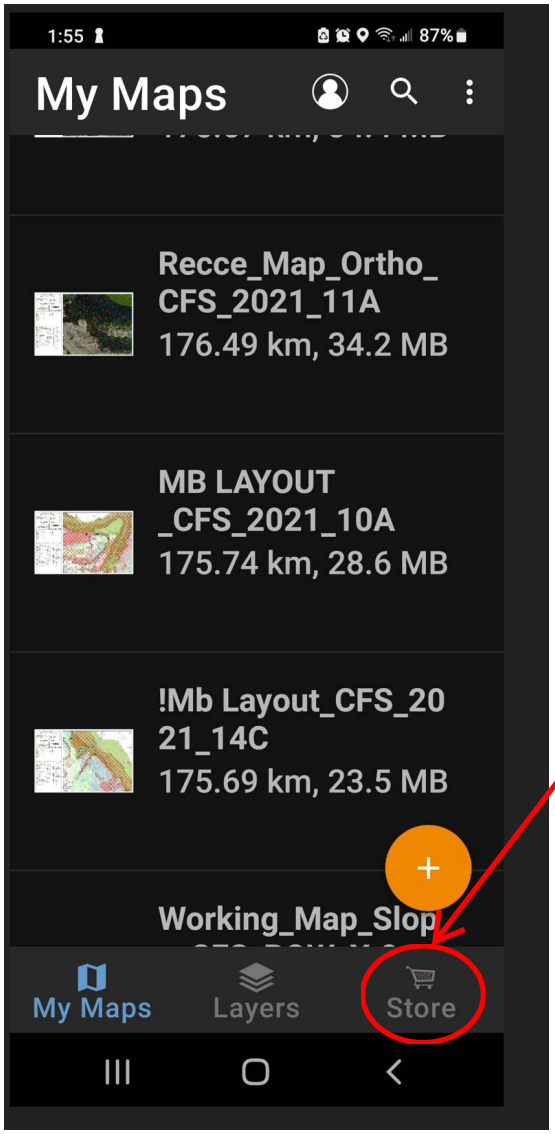
GET IT ON Google Play

Download on the App Store

AVENZA MAPS

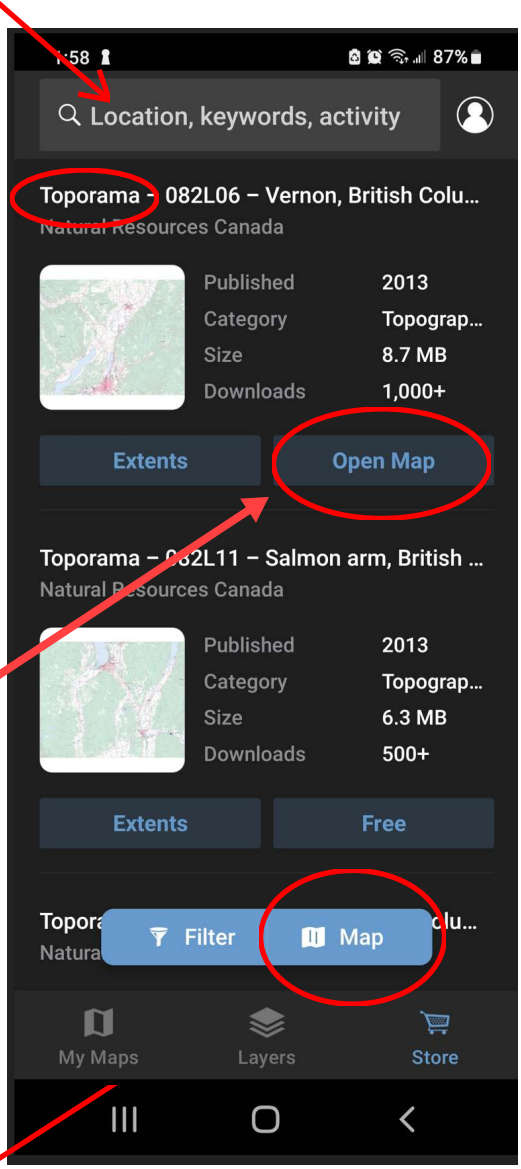
Step 2 go to the store in Avenza and open a free map for your area (the one with the most detail is preferred) - you can only have three maps on the free version of Avenza

Type in your town name



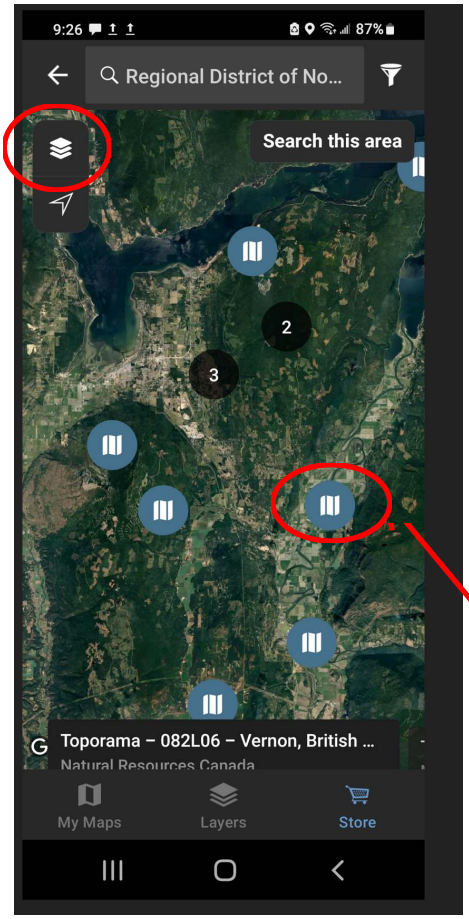
Please use the toporama map for your area (Canada only)

Click open for y

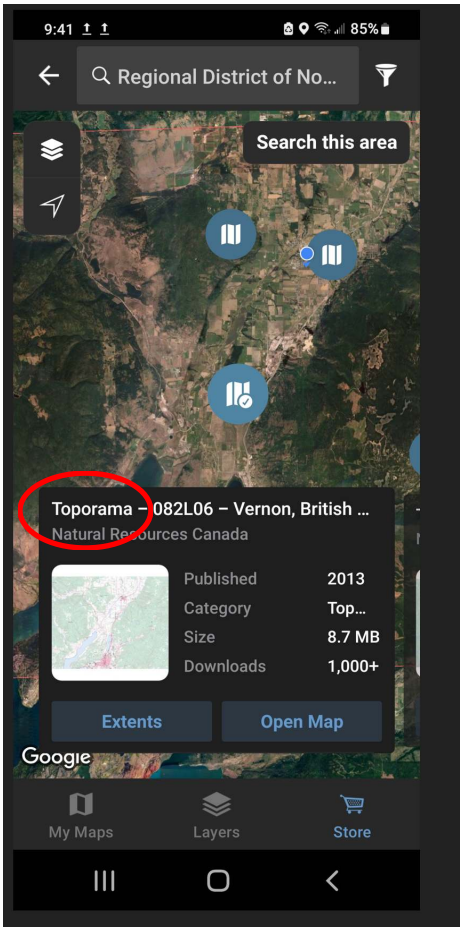


Option to search on an overview map for your area, Please see the next page

Changes the map background to a satellite image

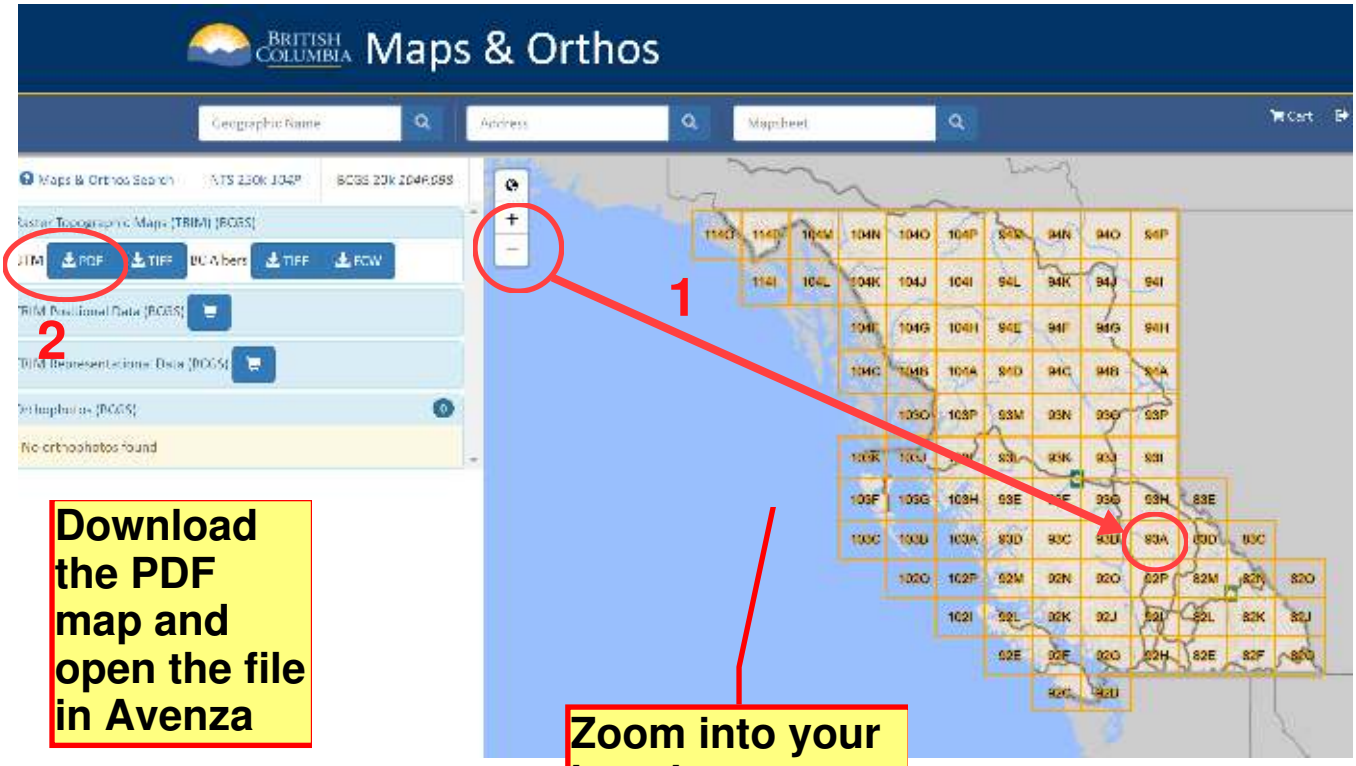


Touch the circle and the Topo your area Canada



An alternate way in British Columbia is to download a free map onto your device from : https://a100.gov.bc.ca/ext/mtec/public/products/mapsheet
You must have your device rotated to see the map on the right side.

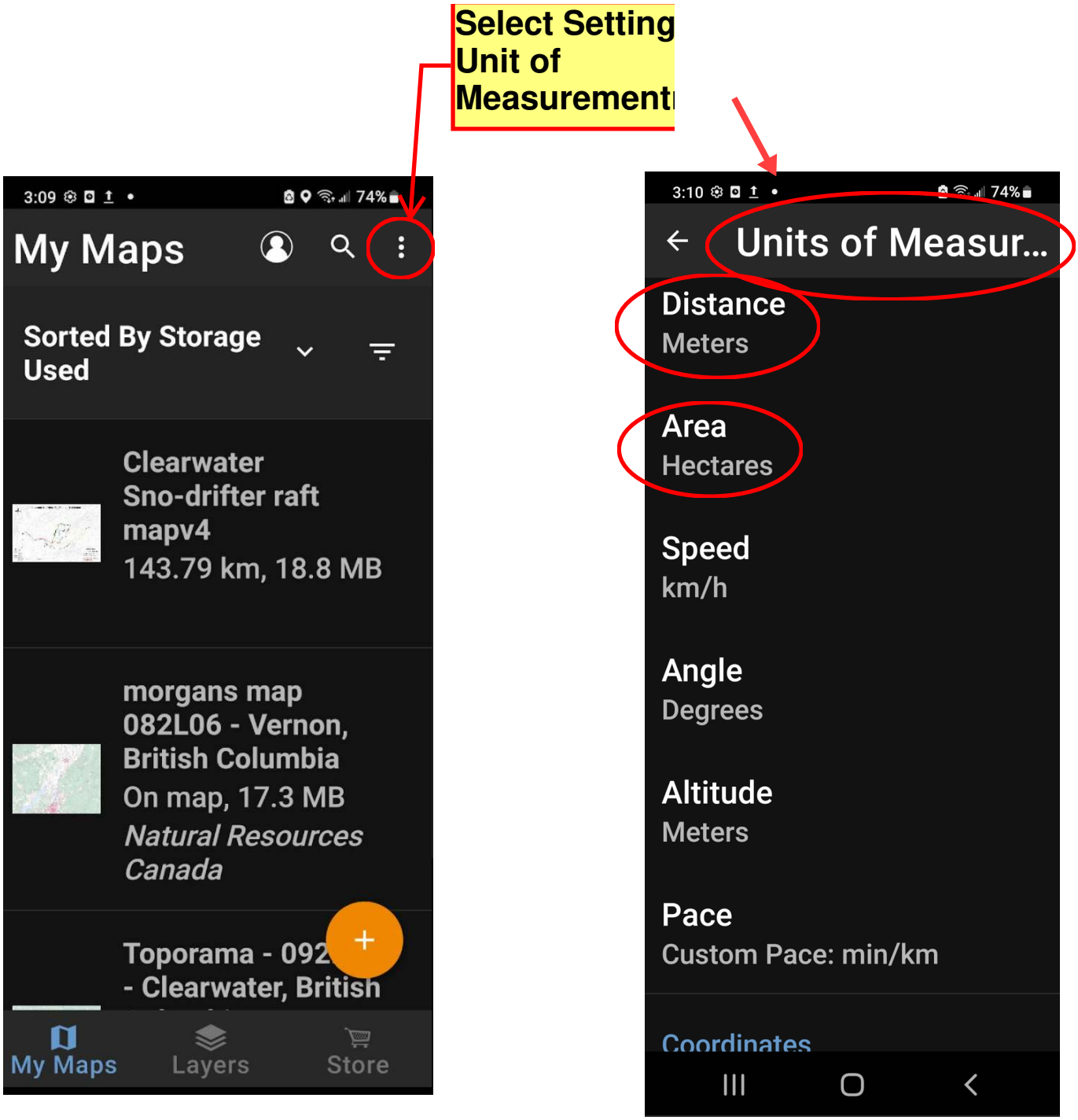
Other Countries, Provinces and States have similar public websites.



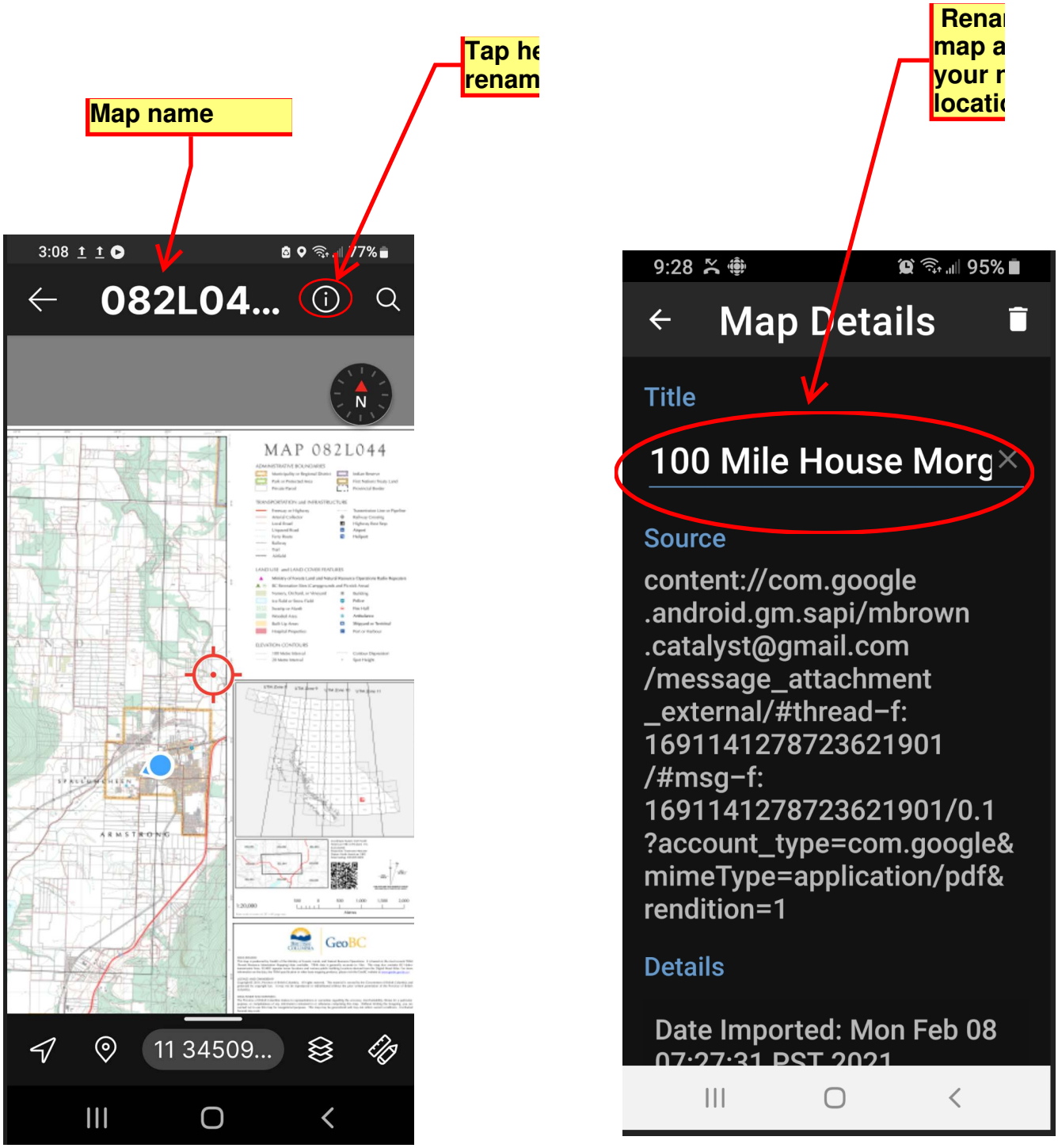
Download the PDF map and open the file in Avenza

Zoom into your location

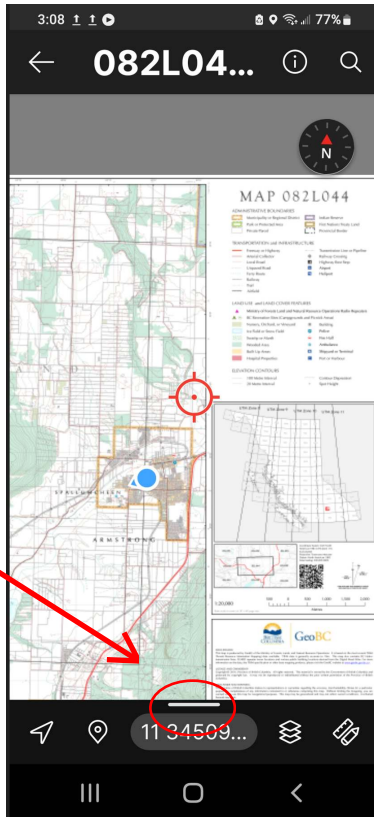
Change your units using the settings tab - Most measurements are completed in Meters and Hectares



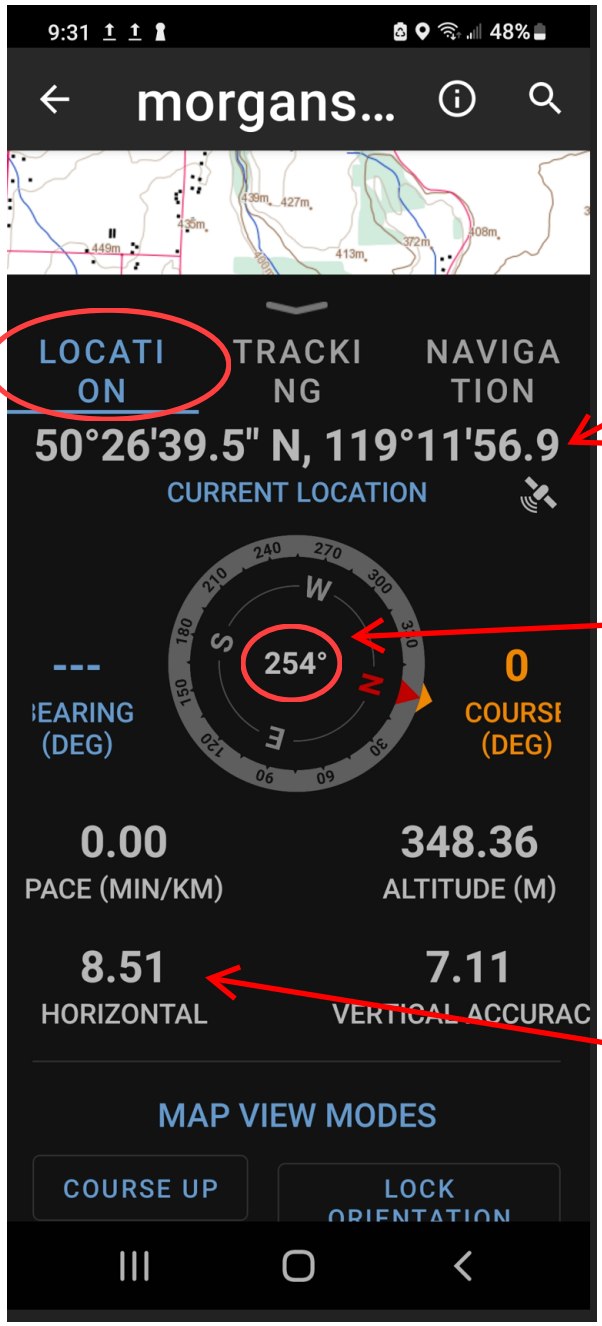
Please open your map and change the name - Naming the map with your initials or name helps keep track of who collected the data.



The location screen will indicate your location coordinates, provides a compass and indicates your location accuracy.



Slide this line up - Location is the left tab



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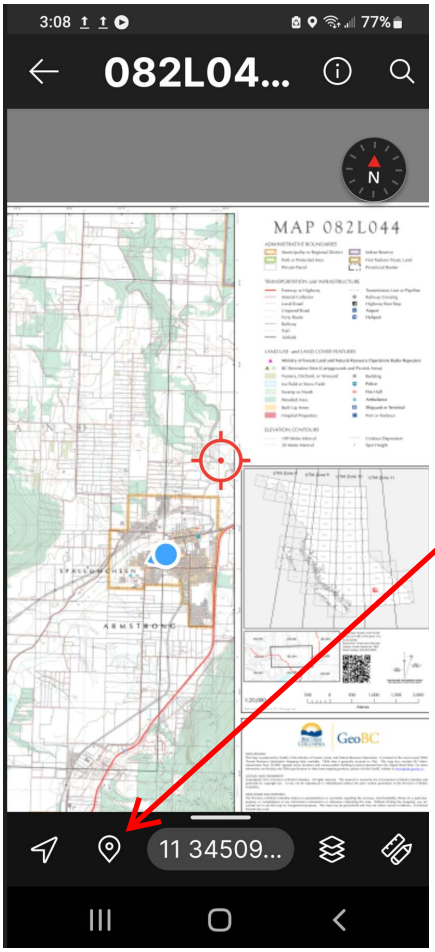
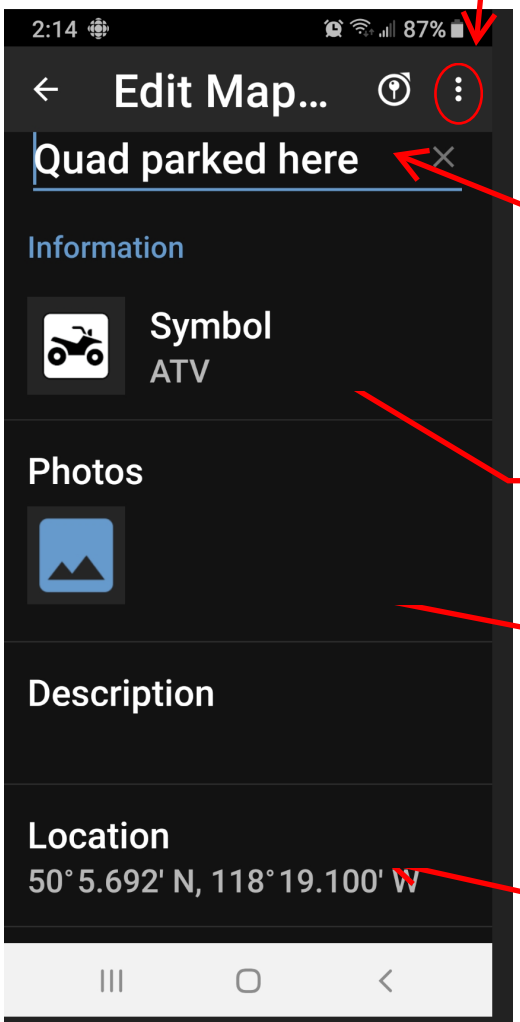
Establishing a Waypoint - A waypoint is a recording of a location, Avenza gives you the ability to name the waypoint, record data at that location (ie. stream width, fish sighting, soil type or plot location), take photos or video, attach photos, and change the symbol to represent what the data point is referencing.



Step 1 - Center yourself on the map

Delete option if you want to redo the location



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Waypoint data can be edited and photographs added at anytime

Using a stream assessment as an example, at each waypoint you could take pictures, record the width, depth and substrate of the stream at that sample point.

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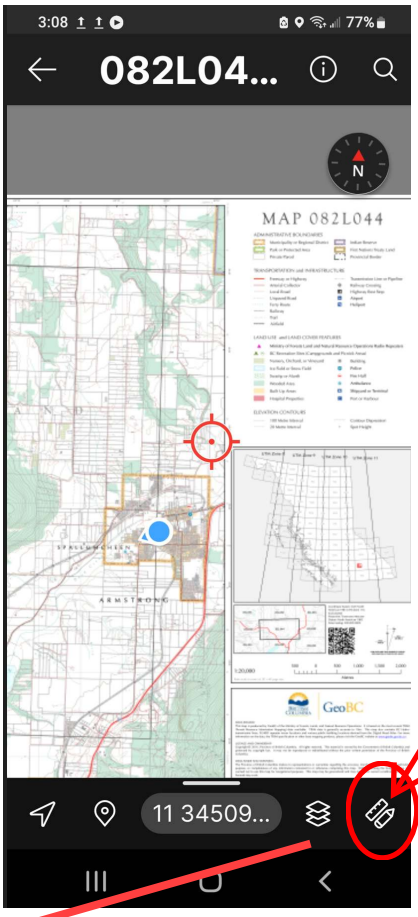
Drawing a line to measure a distance and bearing



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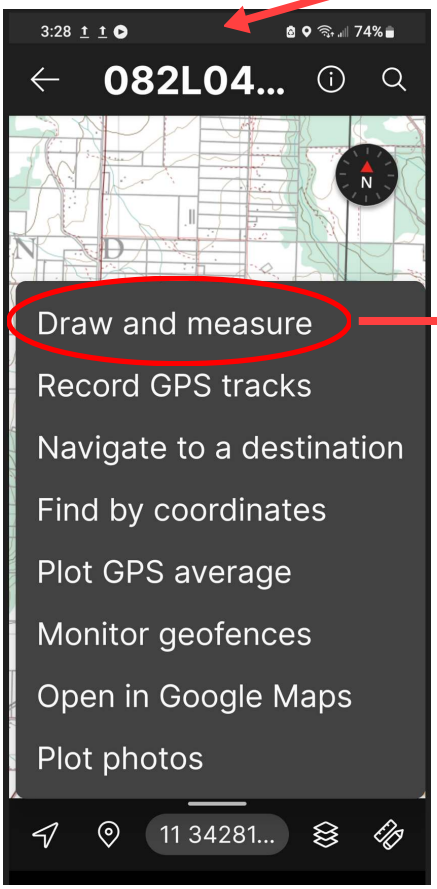
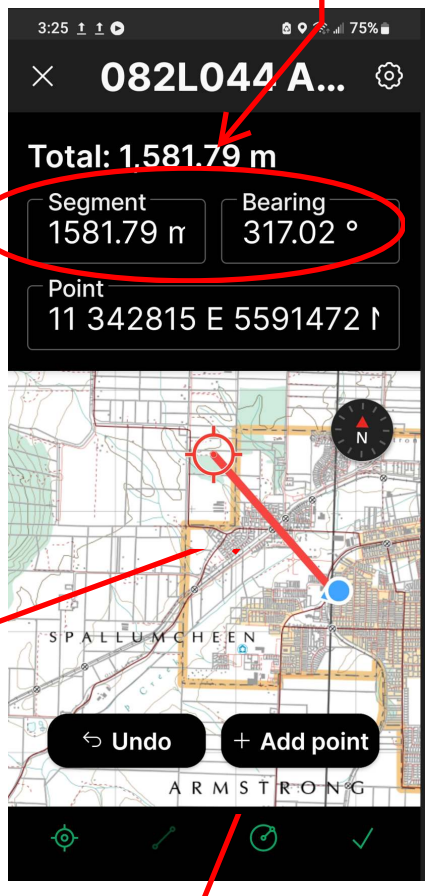
The bearing and distance of the line drawn



Step 2 to draw and measure lines



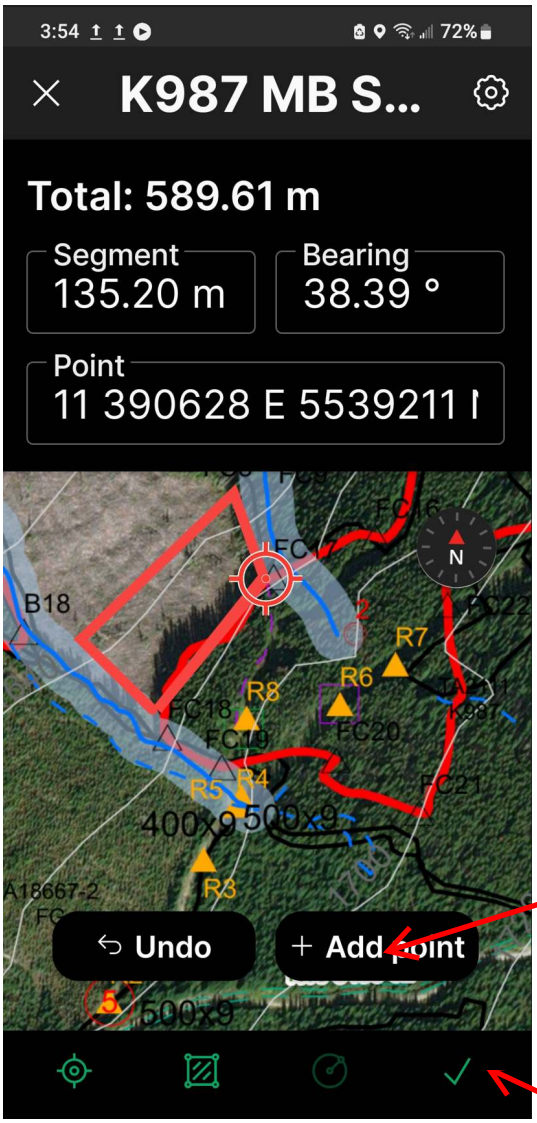
Step 4 tap the cross hairs and drag a line out with your fingers

This feature is very usefull for navigation to a certain features or as an example, measuring in between nest sites.

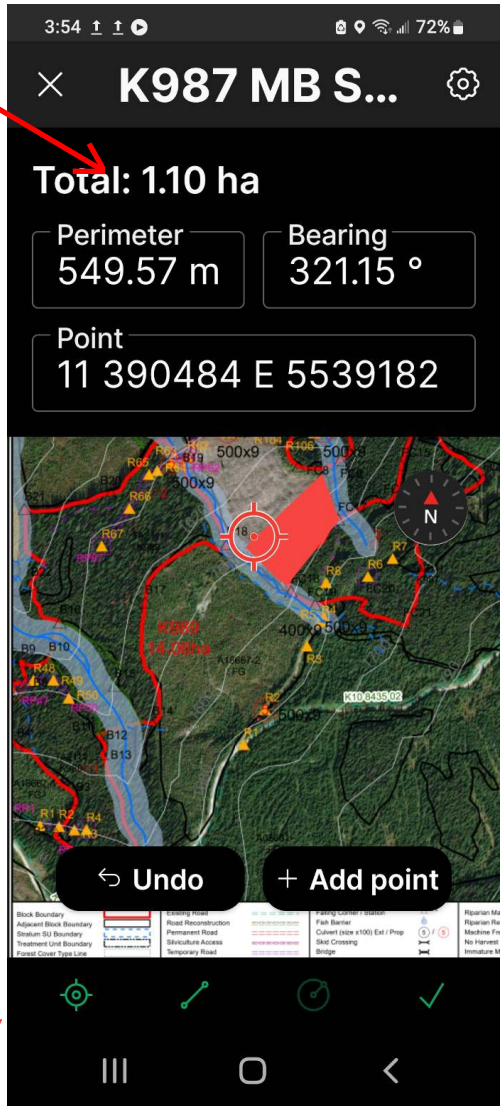
Step 3 tap add a point

To save your drawing

Measuring the perimeter and area - In this example a wetland size is being measured to determine the required reserve zone of trees around the wetland during harvesting.



Wetland area



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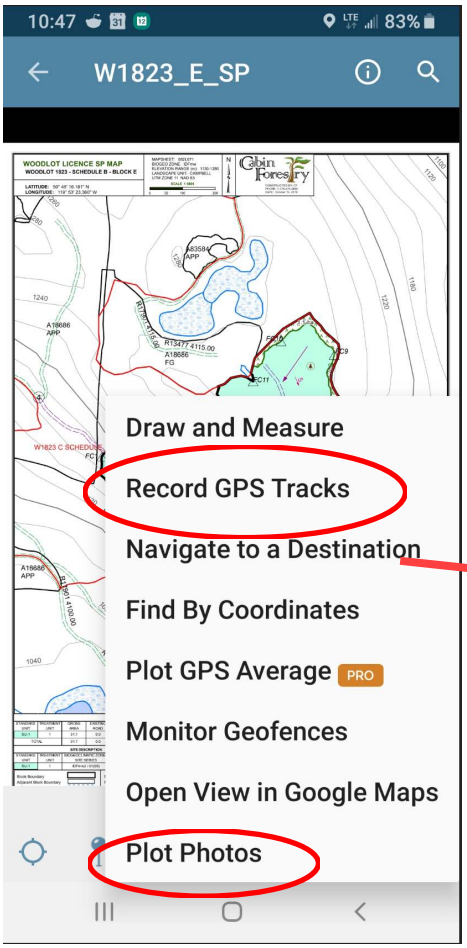
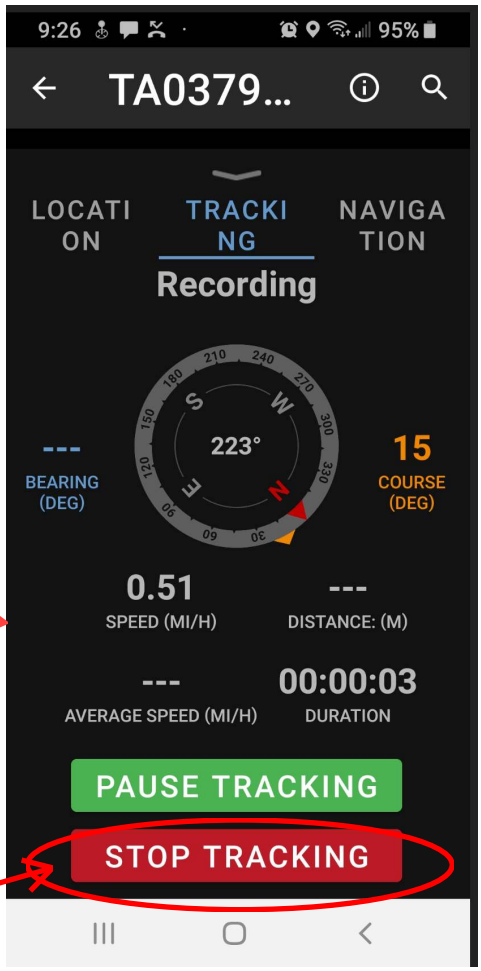
Wetland Classification & RMA Boundaries

Riparian class	Wetland size	Biogeoclimatic zone	Reserve zone width (m)	Management zone width (m)	Total RMA
W1	>5 ha	all	10	40	50
W2	1-5 ha	PP, BG, IDFxh, xw, xm, CWHds, dm, xm	10	20	30
W3	1-5 ha	zones other than noted in W2	0	30	30
W4	0.5-1 ha or 0.25-1 ha	CDF or CWH BG, PP, IDFxh, xw, xm	0	30	30
*W5	>5 ha	all	10	40	50

Tracking - Records the route you have traversed, ideal for a non linear transect line





Stop tracking to record your tracks

georeference photos from your photo gallery

You can name a track or line just by tapping on the saved feature and changing the name

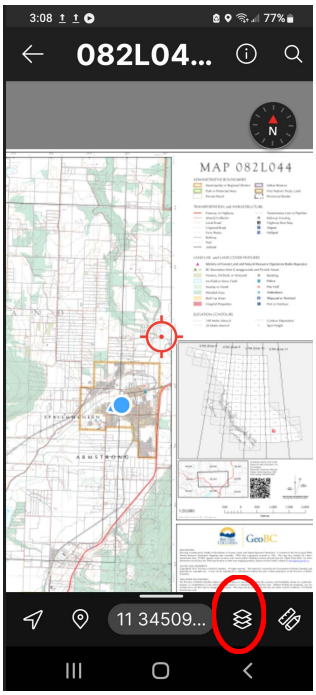
As an example the tracking feature may be used to measure the size of a spill site in an industrial project investigation.

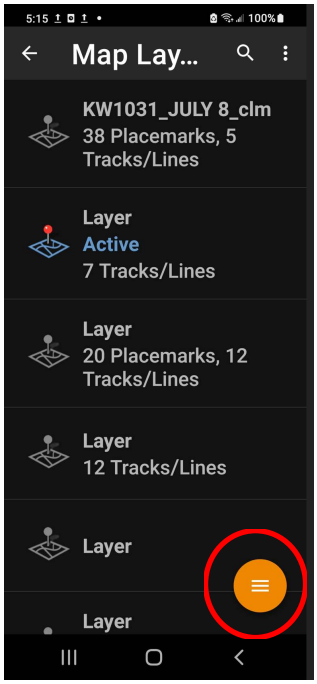
Uploading your collected data:

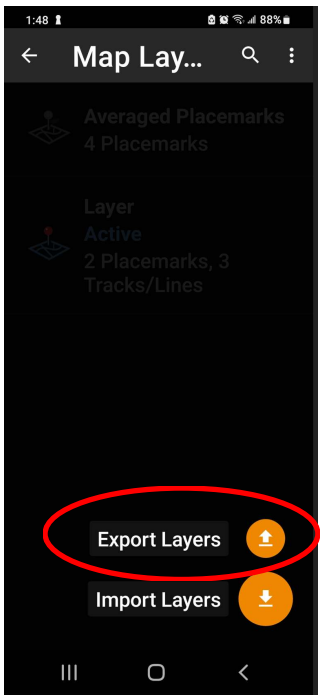
Your weighpoints, pictures, lines, tracks and area calculations can be shared to another phone or computer via bluetooth and airdrop.

Emailed dirrectly out of Avenza. It is now ready to file to your project, loaded to a GIS program for mapping or loaded into Goggle earth.

The data can be downloaded into your files, a DS drive, google drive for backup and to produce reports.







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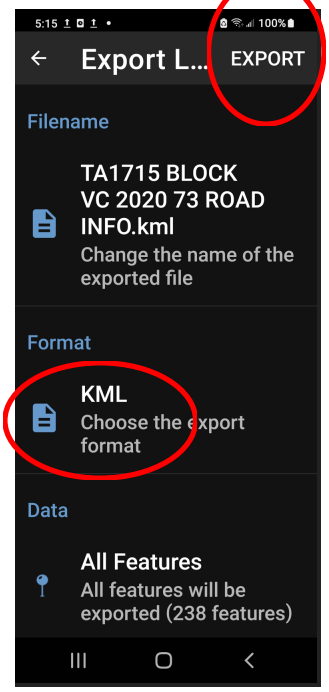
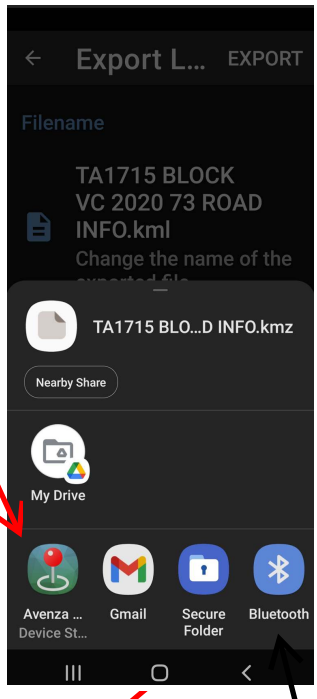




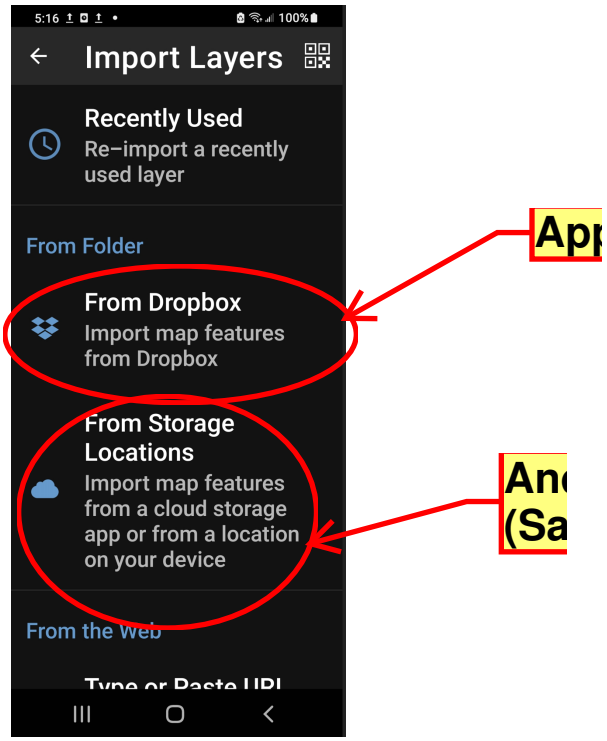
Add the Avenza data for your map to a file folder on your device

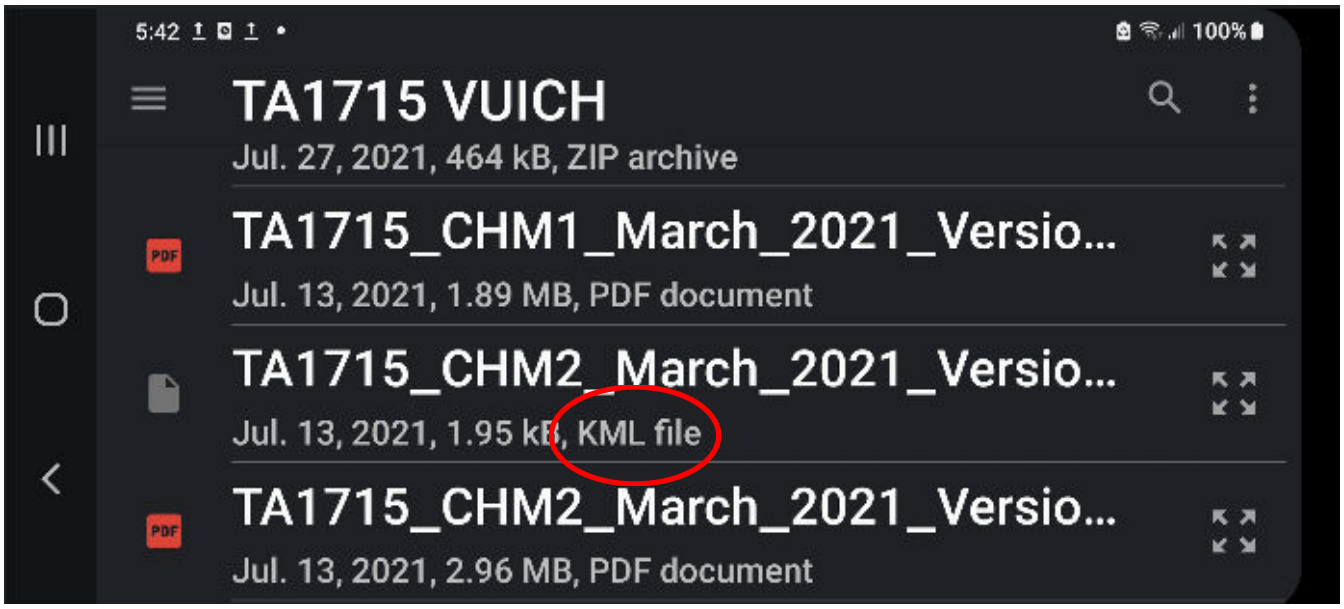
Email the data to someone

File your data

Bluetoot your dat another phone s they can view it o their ma

When data is sent to you, it can be added to your map from your file folder or dropbox:





Must be a KML file for sharing between devices

This is a valuable feature of Avenza as it enables you to share data to all members in the field.
As an example a location of a dam failure that needs to be repaired immediately.
You may also use it to carry on with someone else's stream assessment using their waypoint naming conventions and symbols to add consistency to a project.