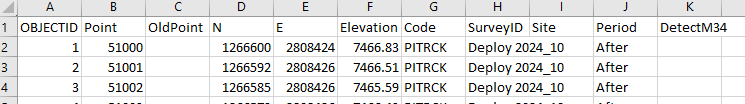
1. Scan Data Sheet, put in U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Data\Sediment\PIT\_Tagged\_Rocks\Data\Field\_Forms
2. Digitize Data sheet in correct sheet within "U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Data\Sediment\PIT\_Tagged\_Rocks\Data\KB\_PIT\_Tagged\_Rocks\_2024.xlsx". For example, if the scanned data sheet was printed from Deploy\_2024, then fill in the sheet in the Deploy\_2024 tab.
   1. If needed, follow instructions for correcting M34 Detections data
3. Manually copy and paste each new data sheet into the “allAfterFieldData” tab, including comments like “M34 Detection only” or anything included on field sheet. Make sure to pay attention to RecapID\_Clean which does not contain ~, \*, or other field sheet markers.
   1. If you are just adding new data, make a .csv with only the new data you’d like to add with the same column names as “allAfterFieldData” and save it in same directory with R code.

# R Code Process

The goal with this code is to join field data with the survey data to get coordinates for each point, then join with attribute data to get attribute info for each tag. The data is then added to a master encounter history file (KB\_Survey\_PITRocks\_Master\_20250213). Movement can then be calculated using this master file, both cumulative and annual. QAQC steps happen along the way as well.

Requirements

* allAfterFieldData.csv, detailed above
  + Contains tag number as it relates to Point number, along with RiffleID, survey year, and notes
  + Can be contain just new field data needed to be joined
* allKBAfterSurveyPoints.csv
  + created by exporting attribute tables of trimble survey data from gdb in GIS, then manually copying and pasting the data together into 1 sheet. Maintain these column numbers in final sheet:
  + If you are just adding new data, you only need the relevant survey info from the one survey you’re trying to add
* attributeInfo.csv
  + 2024 info was exported as a csv from U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Data\Sediment\PIT\_Tagged\_Rocks\Data\2024\_new\_KB\_tagged\_rocks.xlsx, there should be a similar sheet for new data with same column names.

# Process for Correcting M34-only detections Data

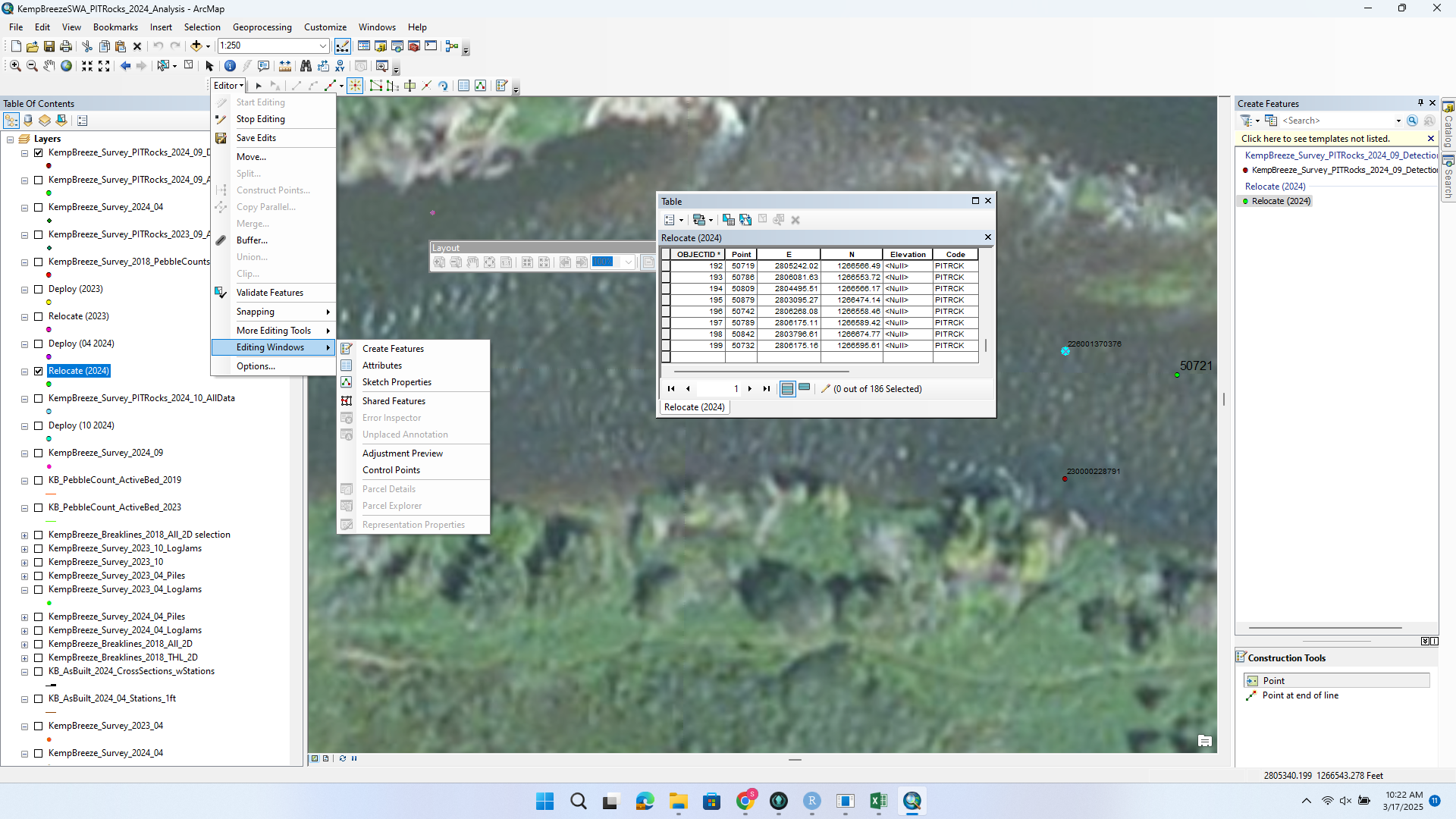
This is to figure out the RecapID for tags detected only on M34 antenna on a particular survey, not anywhere else. RecapID gets added to the digitized data sheet and point is added to the relocate survey data in the gdb.

Requirements

* Eric has made a pivot table in U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Data\Sediment\PIT\_Tagged\_Rocks\Data\Detections\KB\_PITRocks\_AllDetections\_xxxxxx.xlsx of M34 Tags needed to be added to digitized data sheet
* M34 and Relocate Survey data has been added to U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\GIS\Kemp\_Breeze\_SWA.gdb

Process

1. Navigate to "U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Data\Sediment\PIT\_Tagged\_Rocks\Data\Detections\KB\_PITRocks\_AllDetections\_xxxxxx.xlsx" and find pivot table/list of tags with just M34 detections that Eric has presumably made
2. Open "U:\Projects\Colorado\_River\Kemp\_Breeze\_SWA\Maps\PIT\_Rocks\KempBreezeSWA\_PITRocks\_xxxx\_Analysis.mxd. Work off this document
3. Copy tag number from KB\_PITRocks\_AllDetections\_xxxxxx.xlsx. Find M34 detections layer in GIS and select for that point using Select BY attribute (TAGID = xxxxx)
4. Go to digitized data sheet in KB\_PIT\_Tagged\_Rocks\_XXXX and find tag number. Infer and enter RelocateID based off other relocateIDs around it (ie, if the next rock is 50435, the one before would be 50434). Comment that this is an M34 detected point.
5. We now want to add this point spatially to the corresponding relocate survey file. Open editing session in GIS with Relocate Survey layer.
   1. ie if this M34 detection was part of the Relocate 2024 survey, you would use the Relocate 2024 layer
6. In the desired Relocate File, Create new Feature by selecting “Editing windows -> Create Features” (pictured). Make sure the Relocate file is selected in the Create Feature toolbar (pictured), then click the desired point on the map from M34 layer that was selected previously.
   1. This spatially adds the point to the attribute table, but won’t add desired columns yet



1. Select the new point in the attribute table and add desired text columns: importantly, add the point number that was inferred from the data sheets in the Point column
2. Calculate northing and easting by right clicking the desired column and selecting “calculate geometry”. For northing, use the Y coord and easting use the X. Default CRS should be fine since the data is already in a desired CRS
3. Save edits.
4. Note on original scanned data sheets of the new point number that was found with M34
5. Note RecapID on KB\_PITRocks\_AllDetections\_xxxxxx list.
6. Repeat as needed until all M34 detections from KB\_PITRocks\_AllDetections\_xxxxxx are found.