

Hi Reza and Fleur.

Reza, I can't see where you are getting your land area for your examples. They are not the same areas from my spreadsheet. I also think you should be using the GIS data rather than the spreadsheet. Fleur, I think we also need some steer from you on this.

- Subcatchment 0: 0.04 ha land, but 3.59 ha of CW area (8,465%)

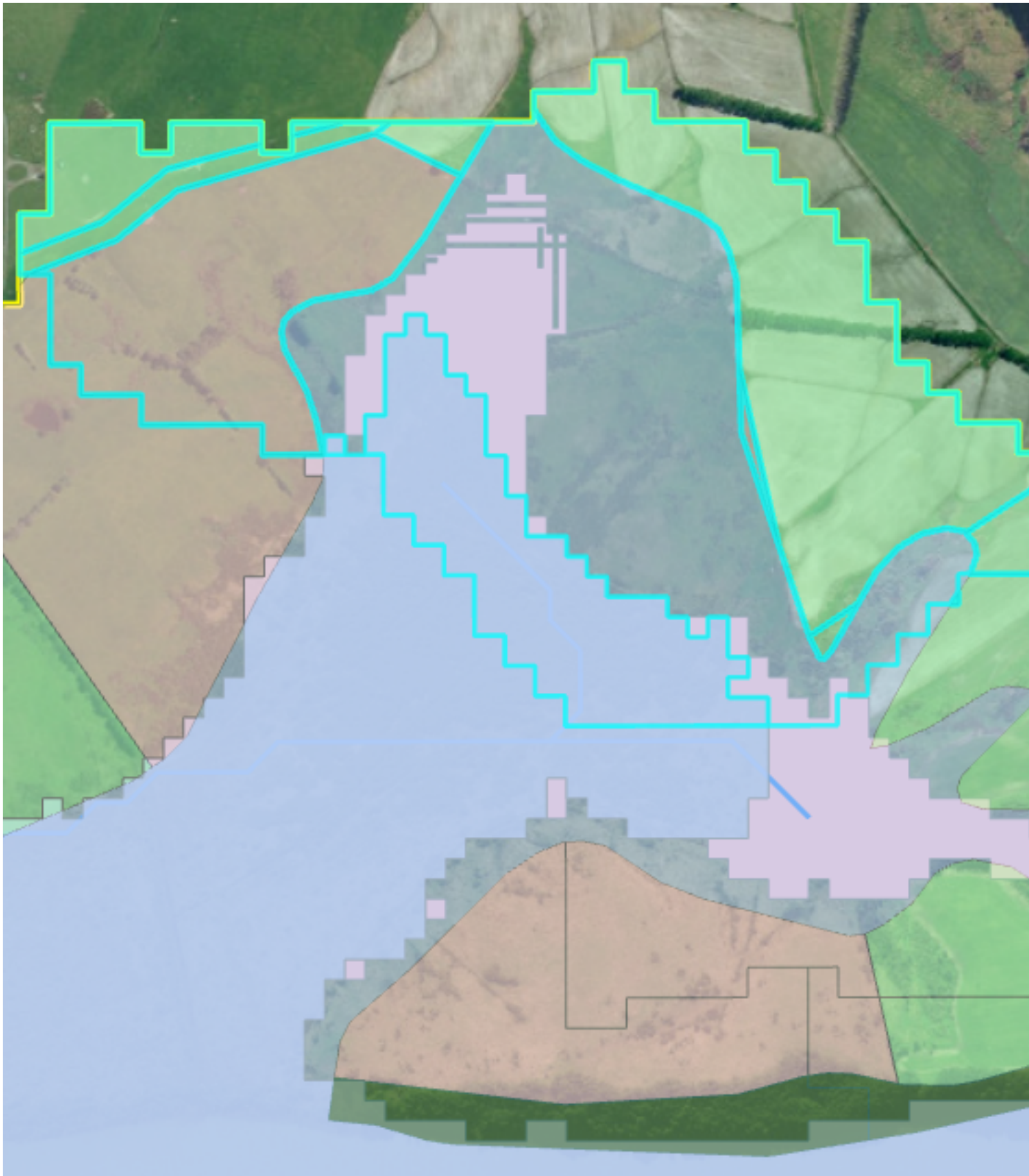
This is listed in your file as 1009647

The total area for that subcatchment is 42 ha, of which I have 21 ha as land. But it gets tricky.

While the lake + 0.66m covers only around 6 ha (8%) of the subcatchment (the darker blue), my update to CLUES has around 21 ha of the catchment as water (lighter blue) (the original water area in CLUES was the same), this is because LCDB5 classes the land as freshwater herbaceous land, which in CLUES is classed as water/other. I have no idea if this is a valid location for a wetland. Note, the wetland boundary is right on the lake + 0.66m bank. Over to you Fleur.

I have just separated the lake + 0.66m from the CLUES water area by making a slight change to the pivot table.

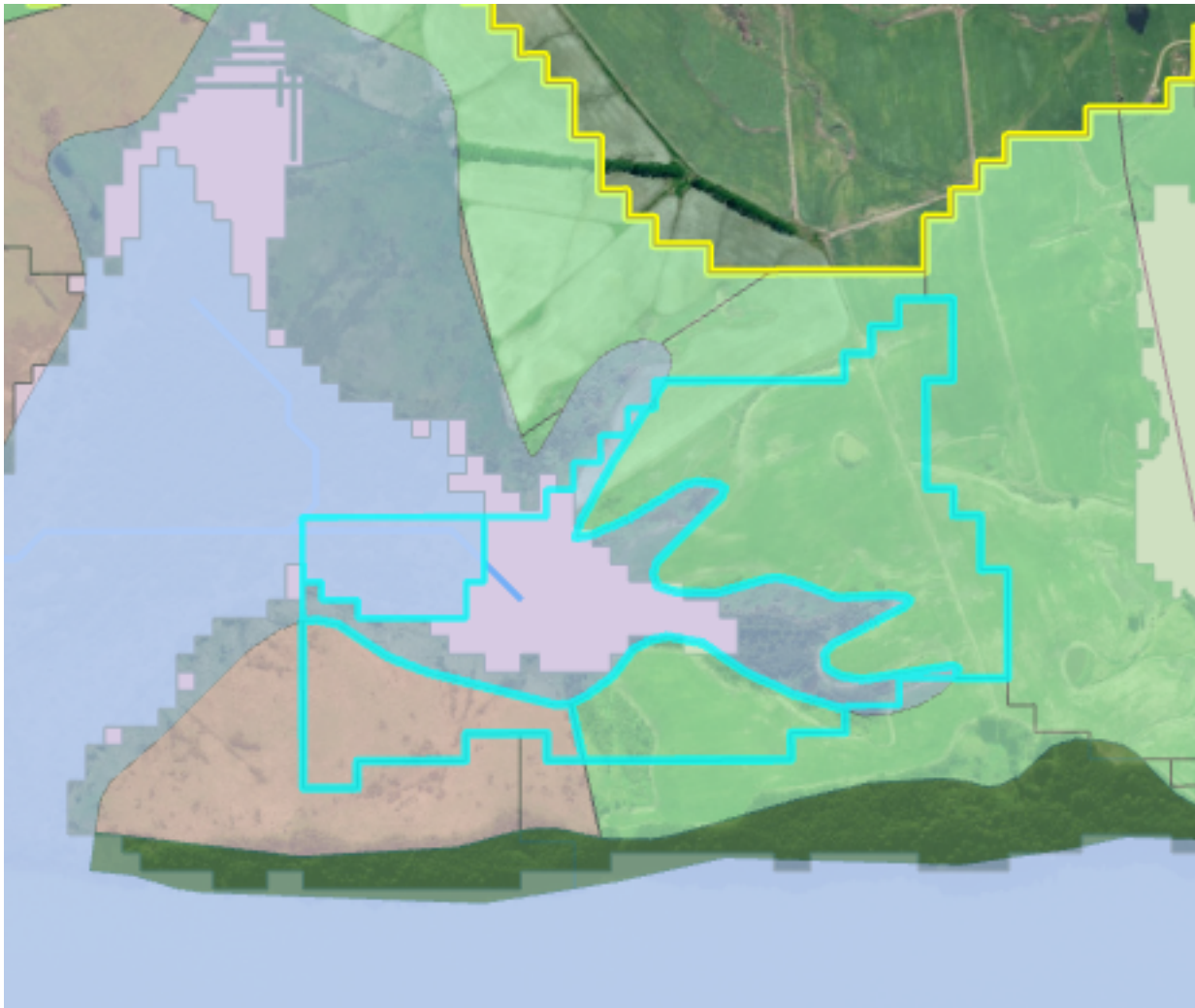
This results in a total land area, including the marshland, of 36 ha.



- Subcatchment 3: 0.59 ha land, but 4.68 ha of CW area (790%)

If I separate out the Lake, then the land area, including the marshland (15ha) is 36 ha. The

marshland is 8 ha and the lake is 2 ha.



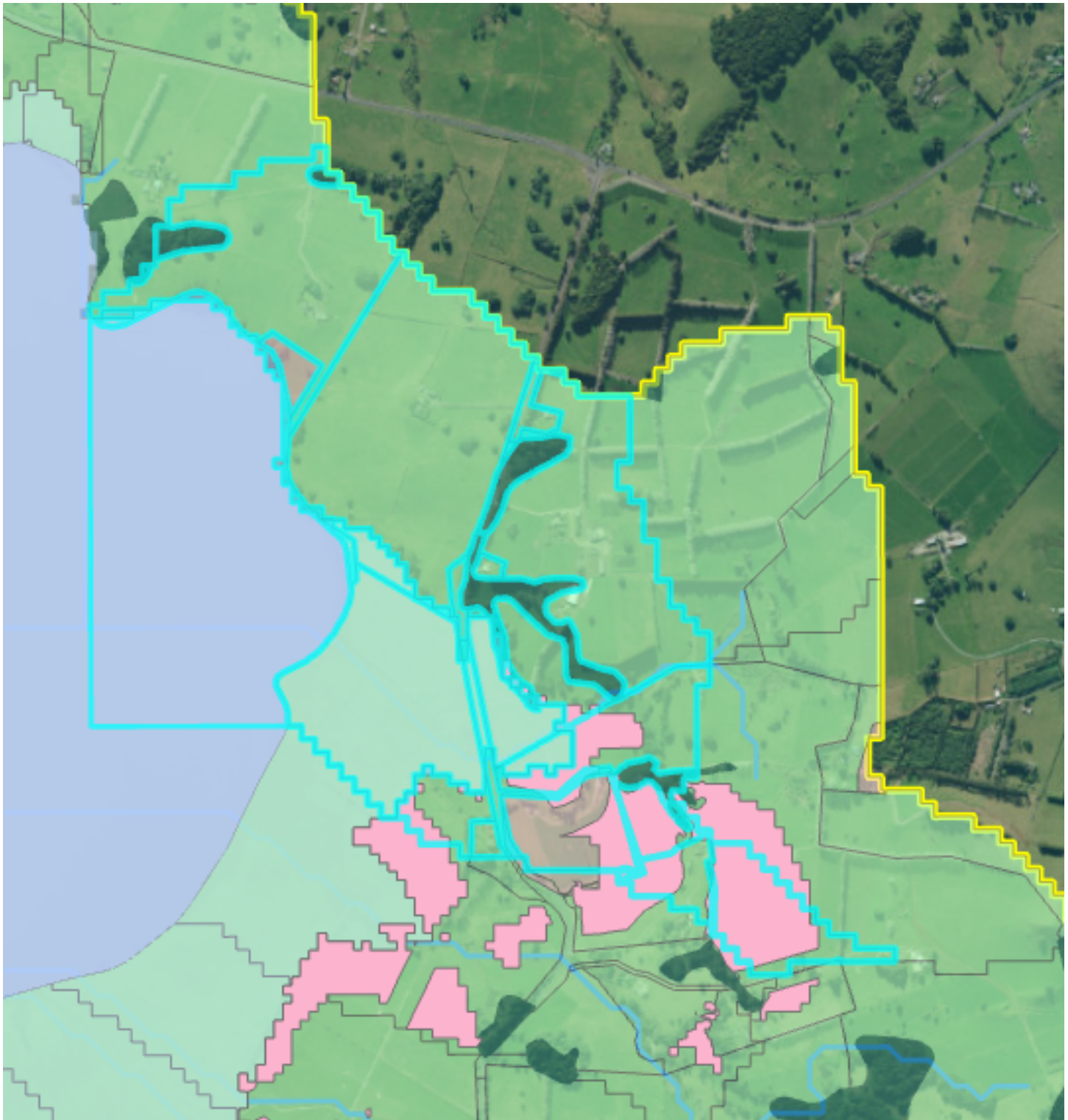
- Subcatchment 15: 9.43 ha land, but 16.96 ha of CW area (180%)

The reach is 1010139 and has a catchment area of 166 ha.

The original CLUES water/marsh area was 45 ha - all of it lake.

The new water area (i.e., lake + 0.66m) is 67ha (there is a tiny bit of CLUES "water", <1 ha, which is due to spatial resolution differences)

What I think is very interesting is that the new lake boundary matches completely the CLUES dairy area - this is classed as High producing Grassland in LCDB5 and the wetlands are found only in the SB area (also classed as High Producing Grassland in LCDB5). Very strange.



Happy to go over all this with you in GIS.

Annette