**ARC-GIS**

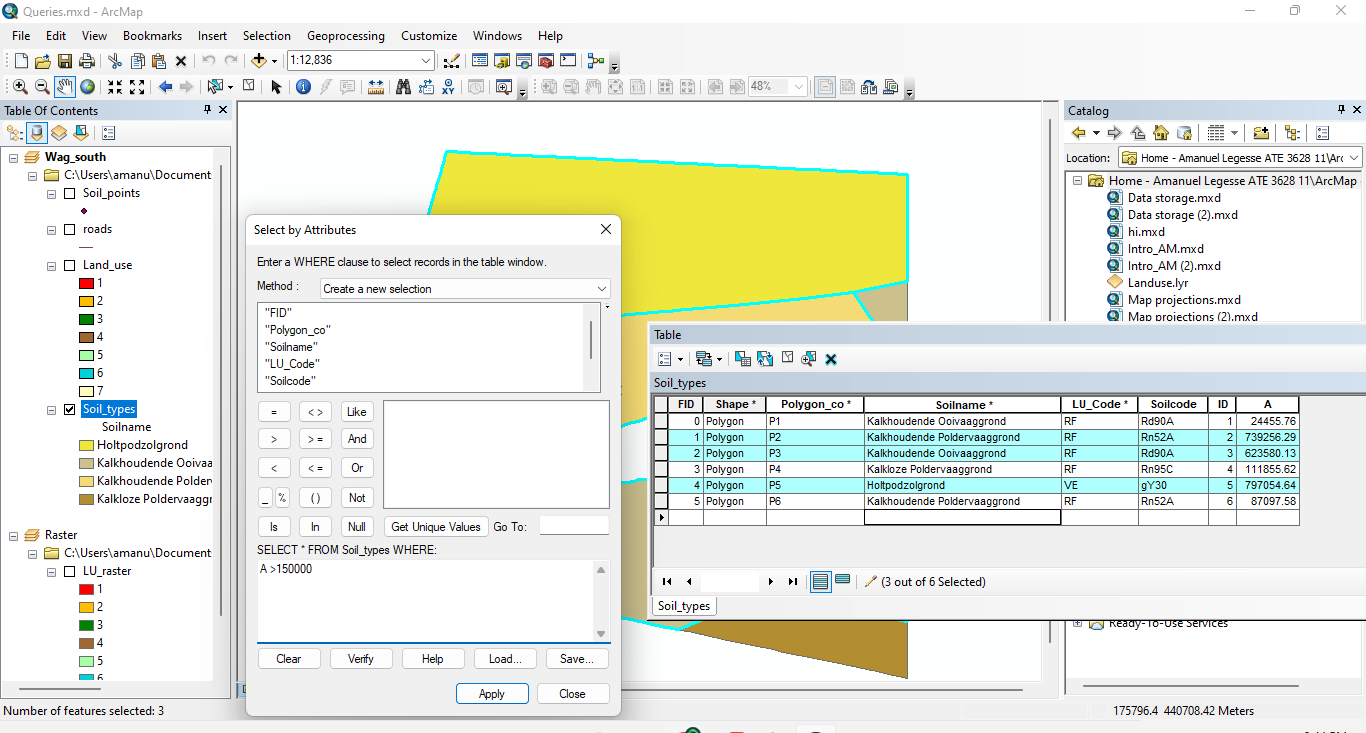
**EXCERCISE: 5**

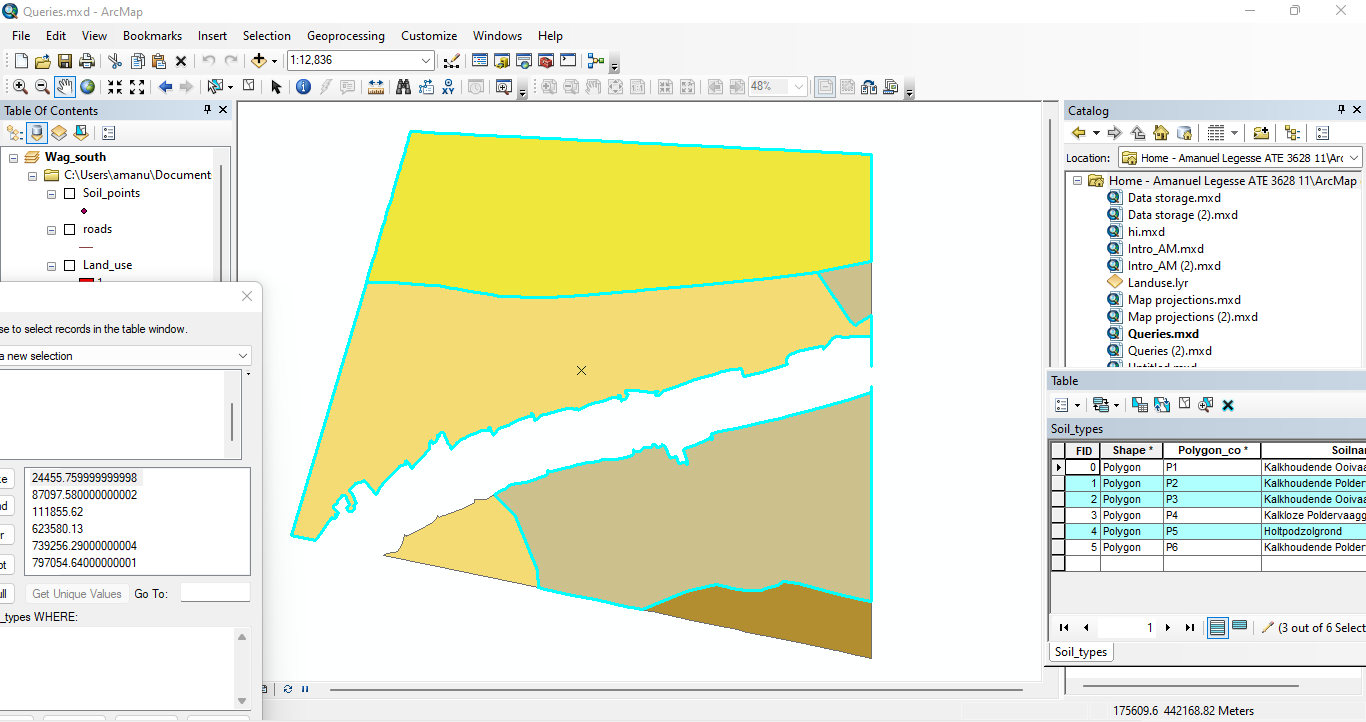


**QUERIES**

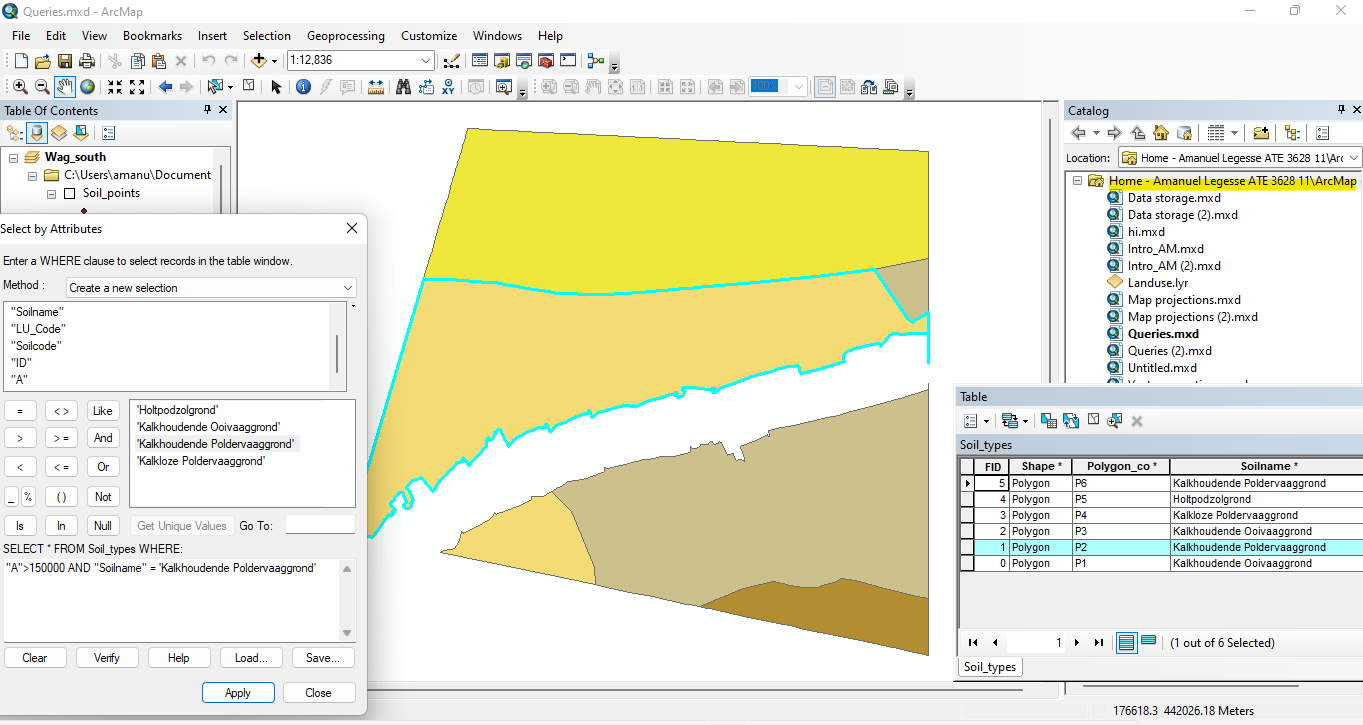
**Attribute data queries**

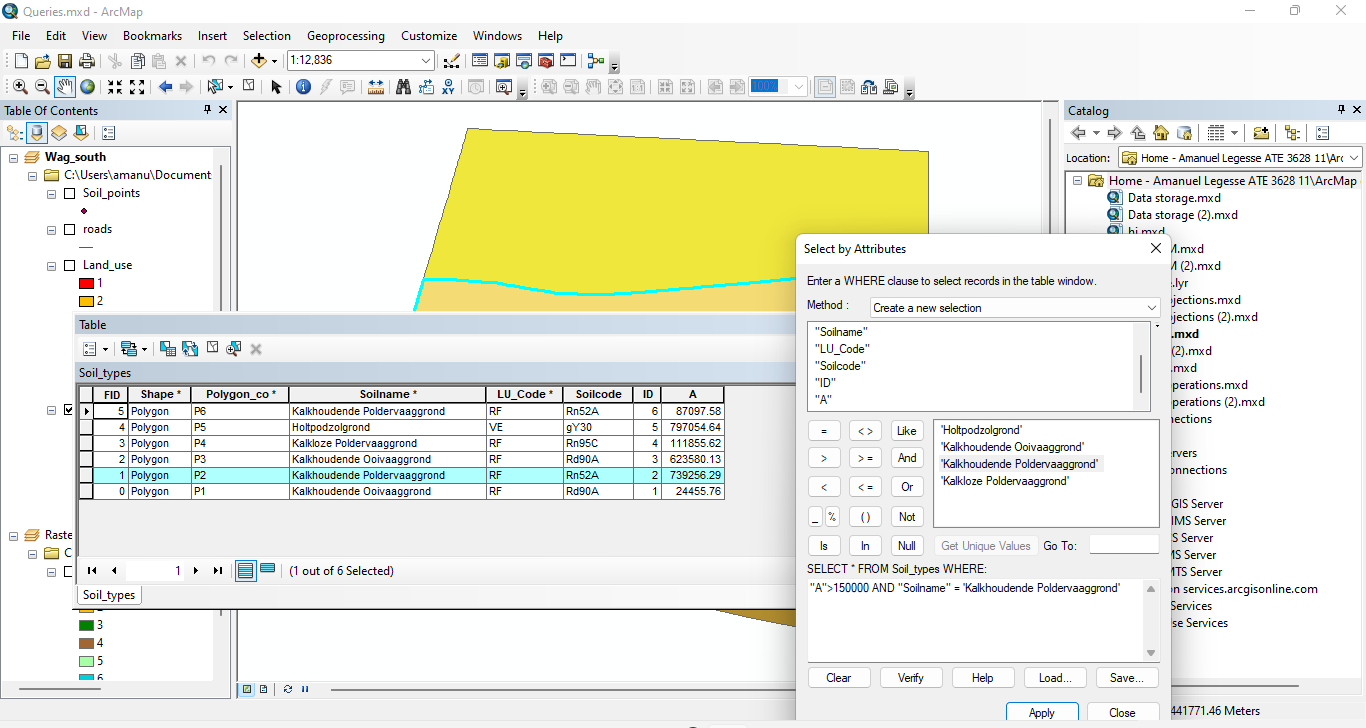
1. **A**: 3 records are selected



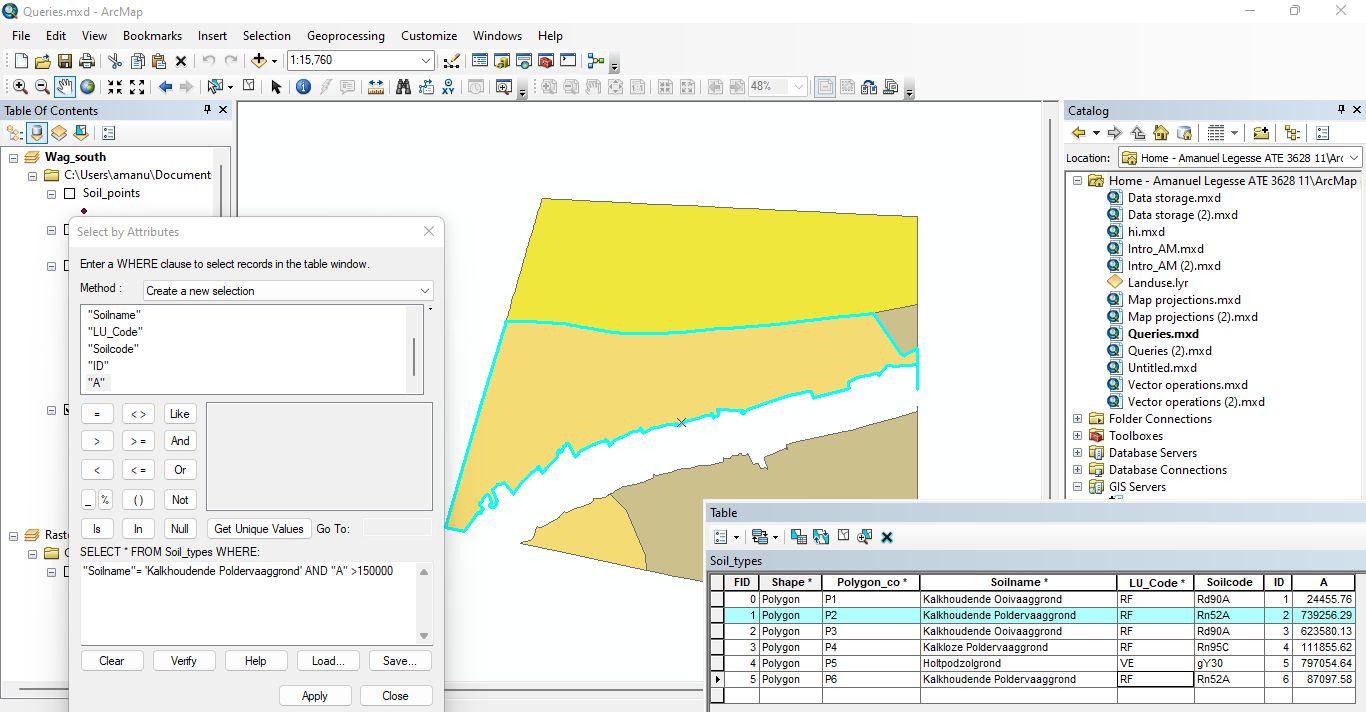


**B**: There is 1 kalkhoudende poldervaaggrond records selected





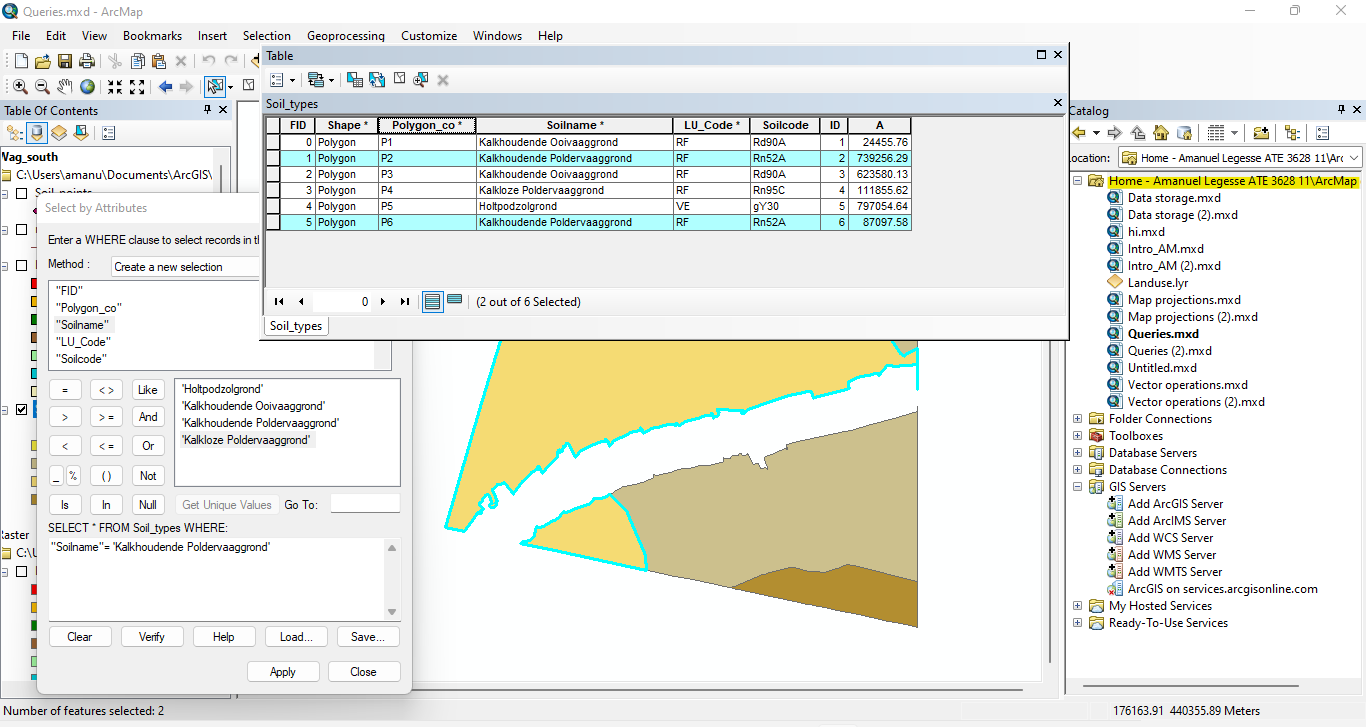
**C**: Yes the selection can be made at once using the Boolean expression AND.



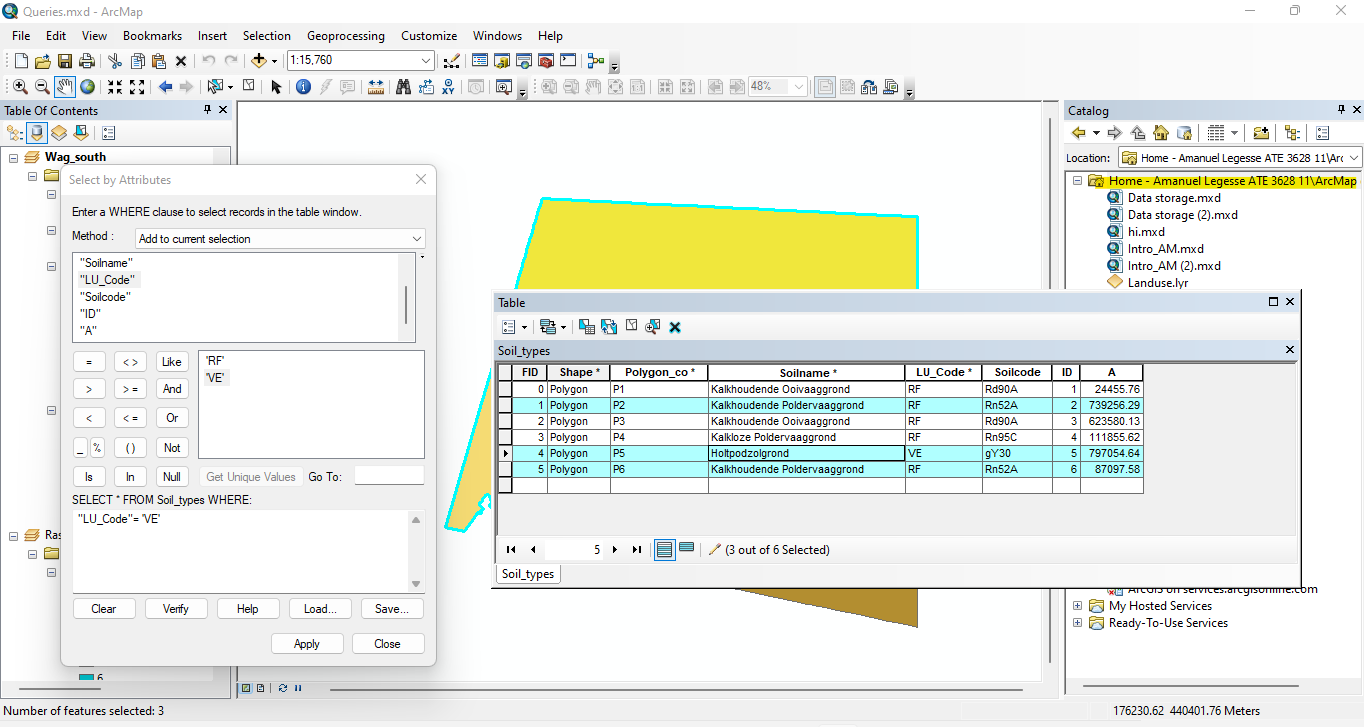
**D**: Select: "Soilname"

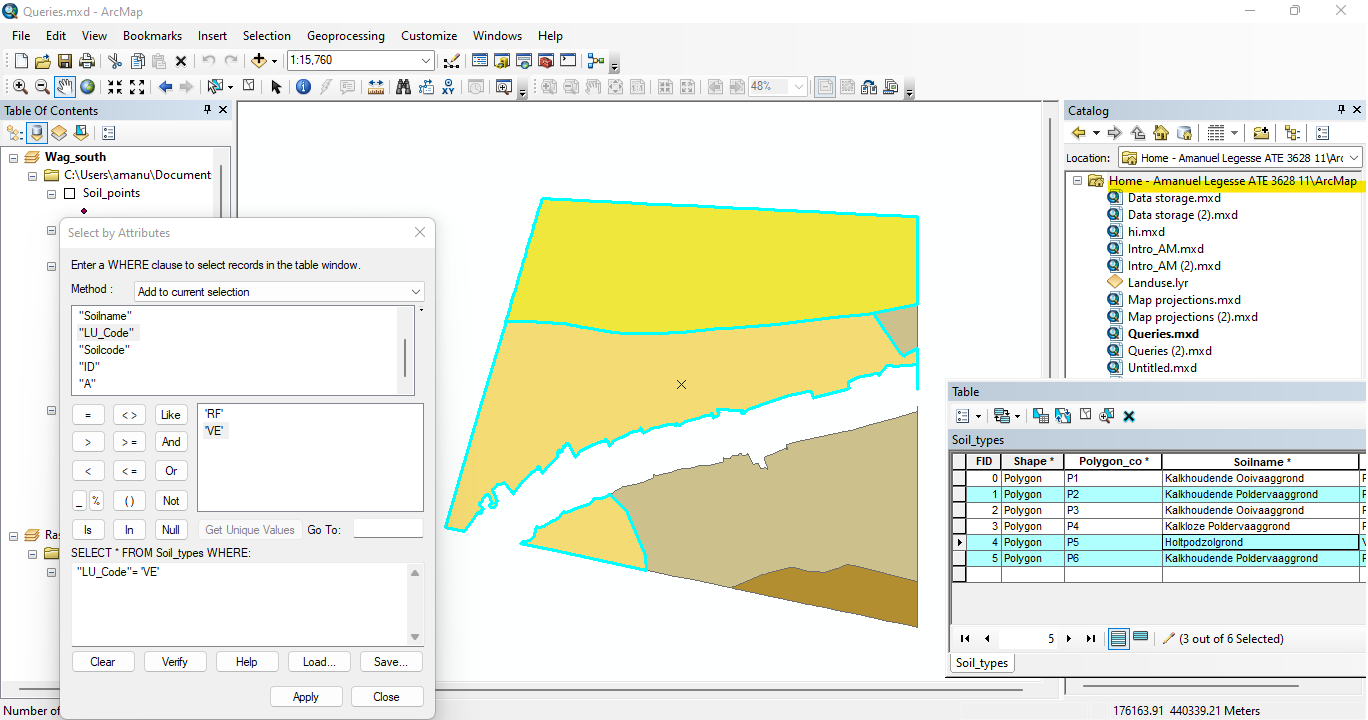
From: Soil\_types

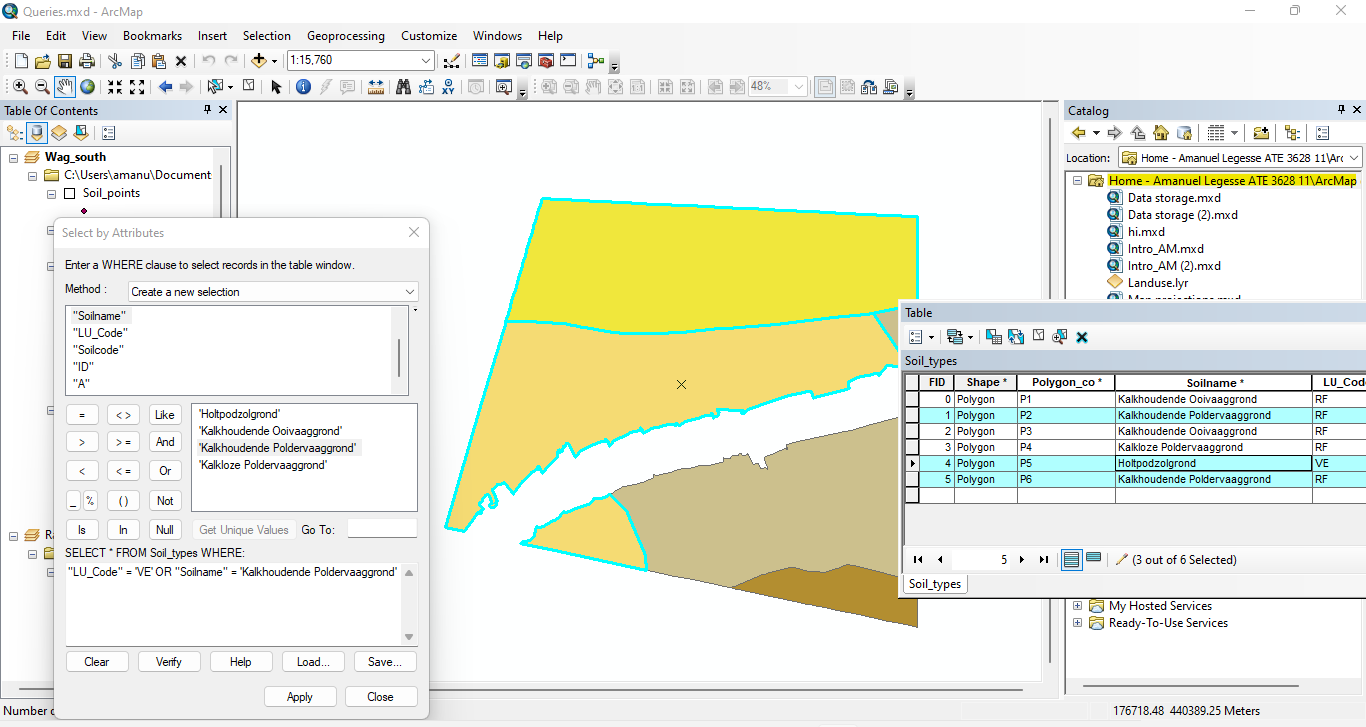
Where: "Soilname"= 'Kalkhoudende Poldervaaggrond'



**E**: 3 records are selected after adding features with LU\_code ‘VE’

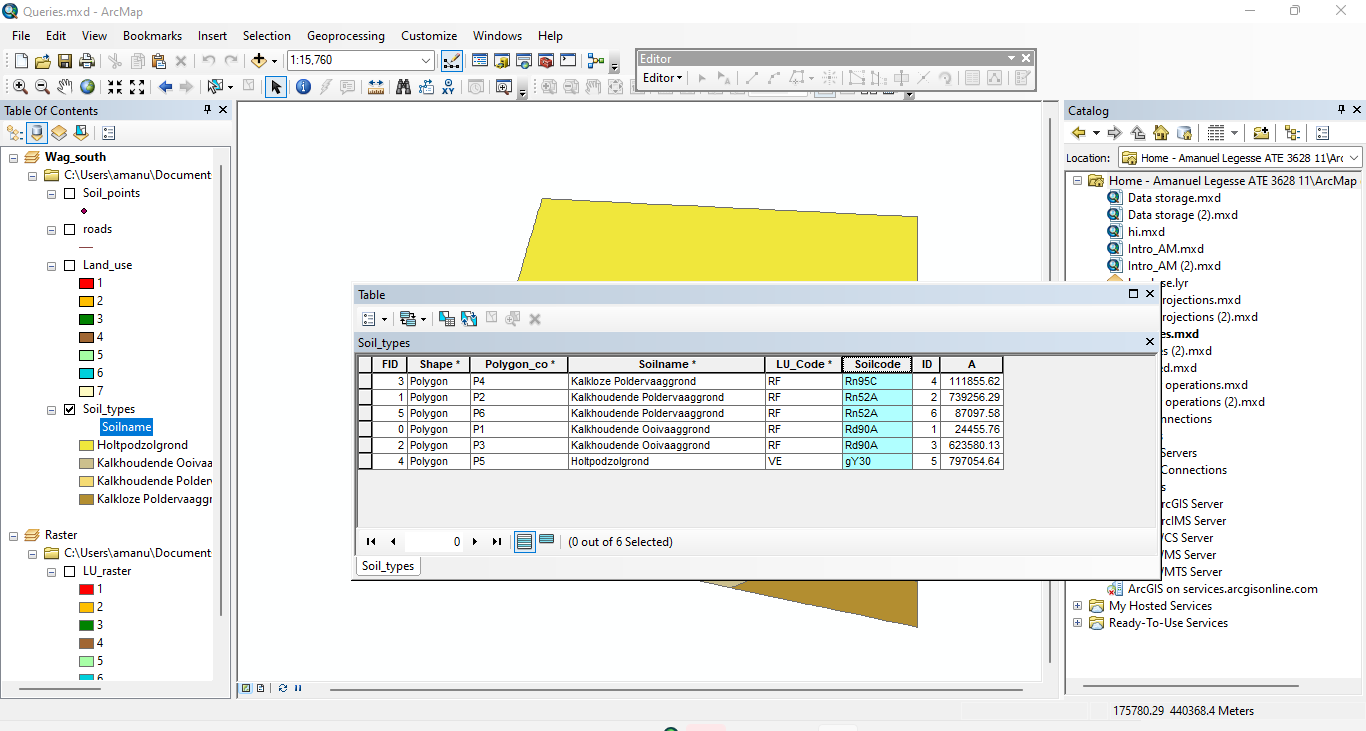




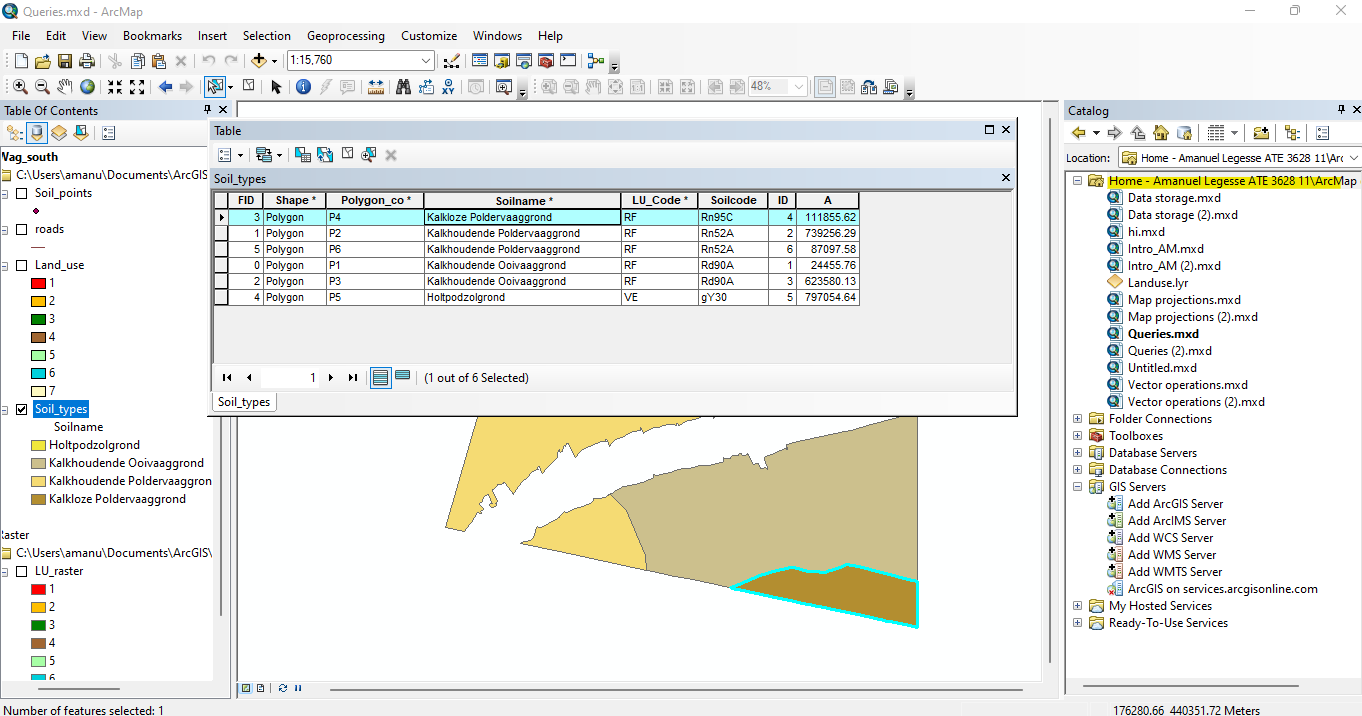
**F**: Yes the selection can be made at once using the Boolean expression OR.

**Sorting attributes**

1. polygon\_co is sorted in a descending order as seen below.



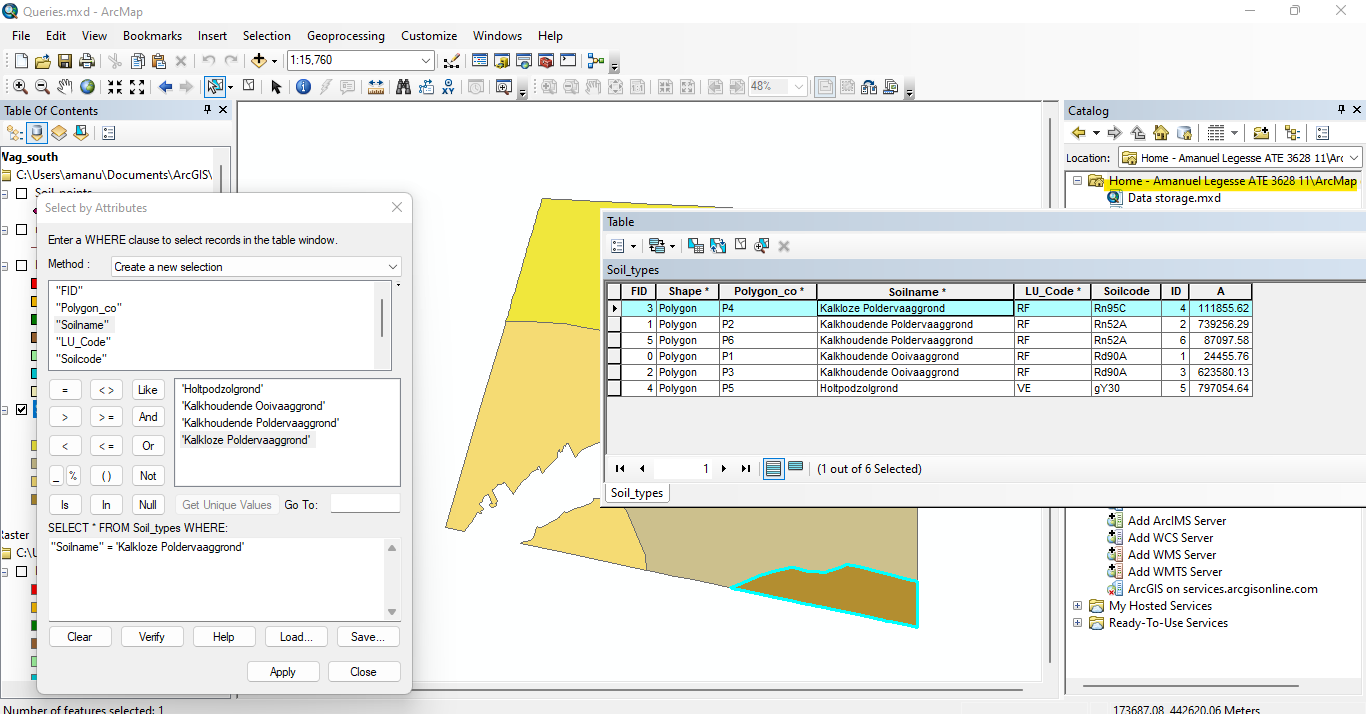
**Feature selection by cursor**

1. **A**: 

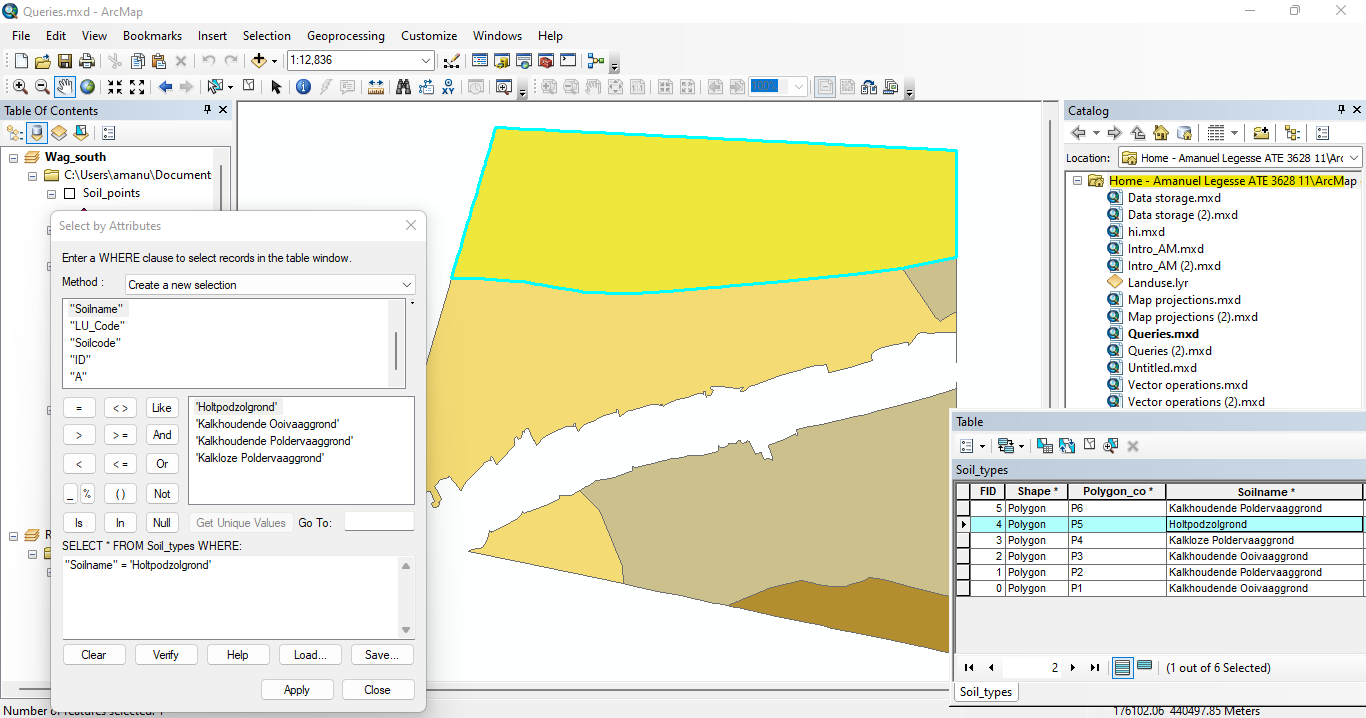
**B**: Select: "Soilname"

From: Soil\_types

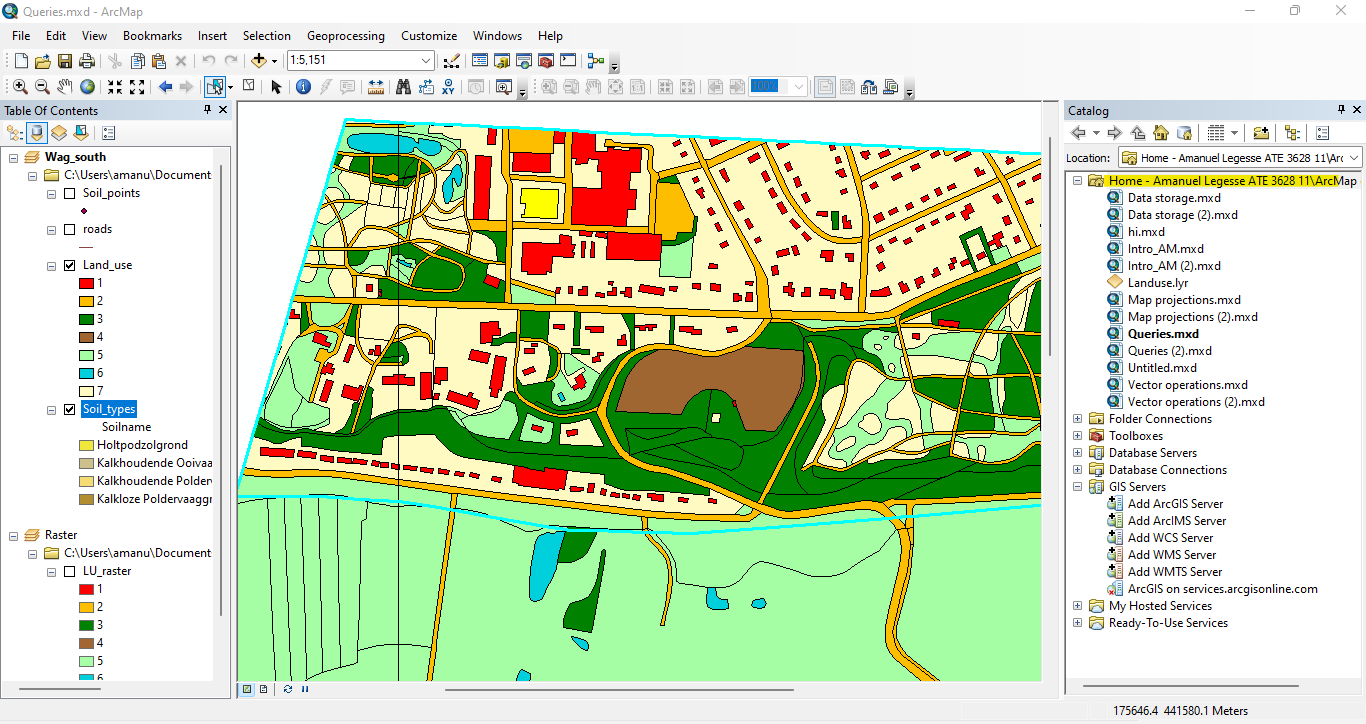
Where: "Soilname"= ' Kalkloze poldervaaggrond’



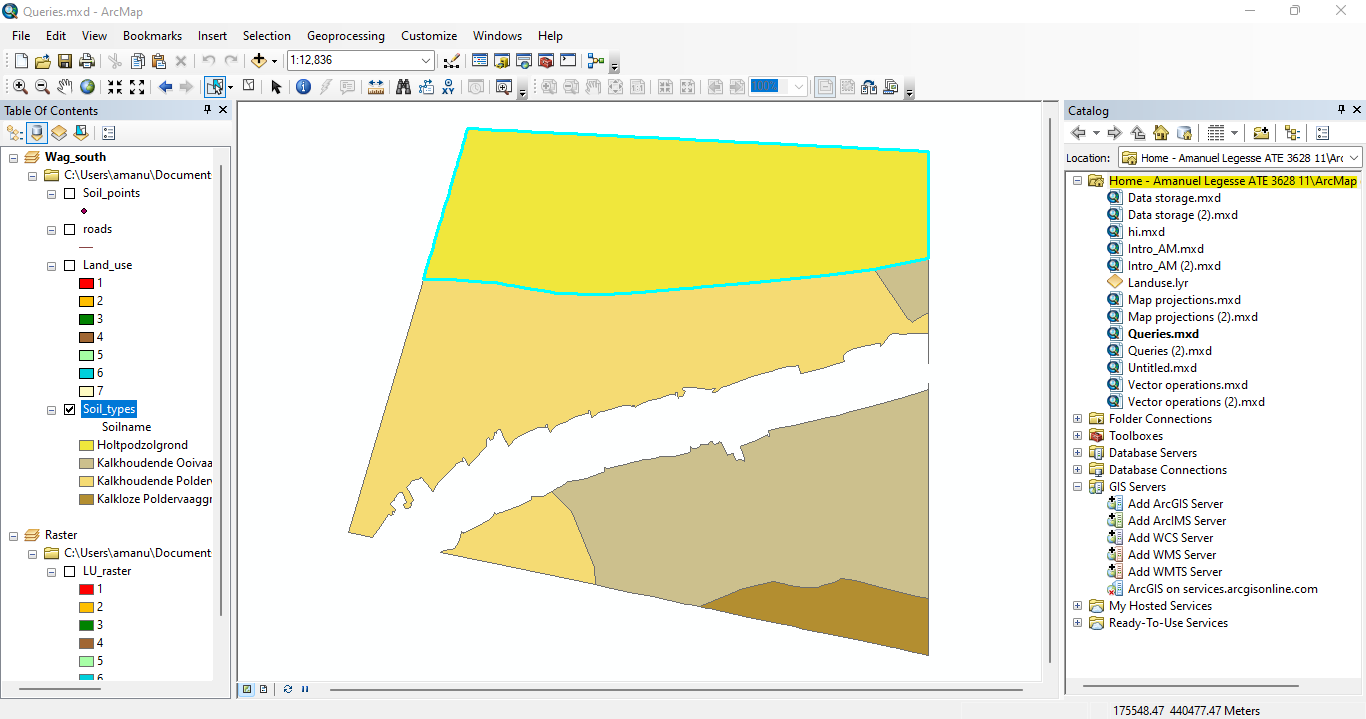
**C**. After removing the most southern soil feature which is 'Kalkloze Poldervaaggrond', the most northern one ('Holtpodzolgrond’) is selected.



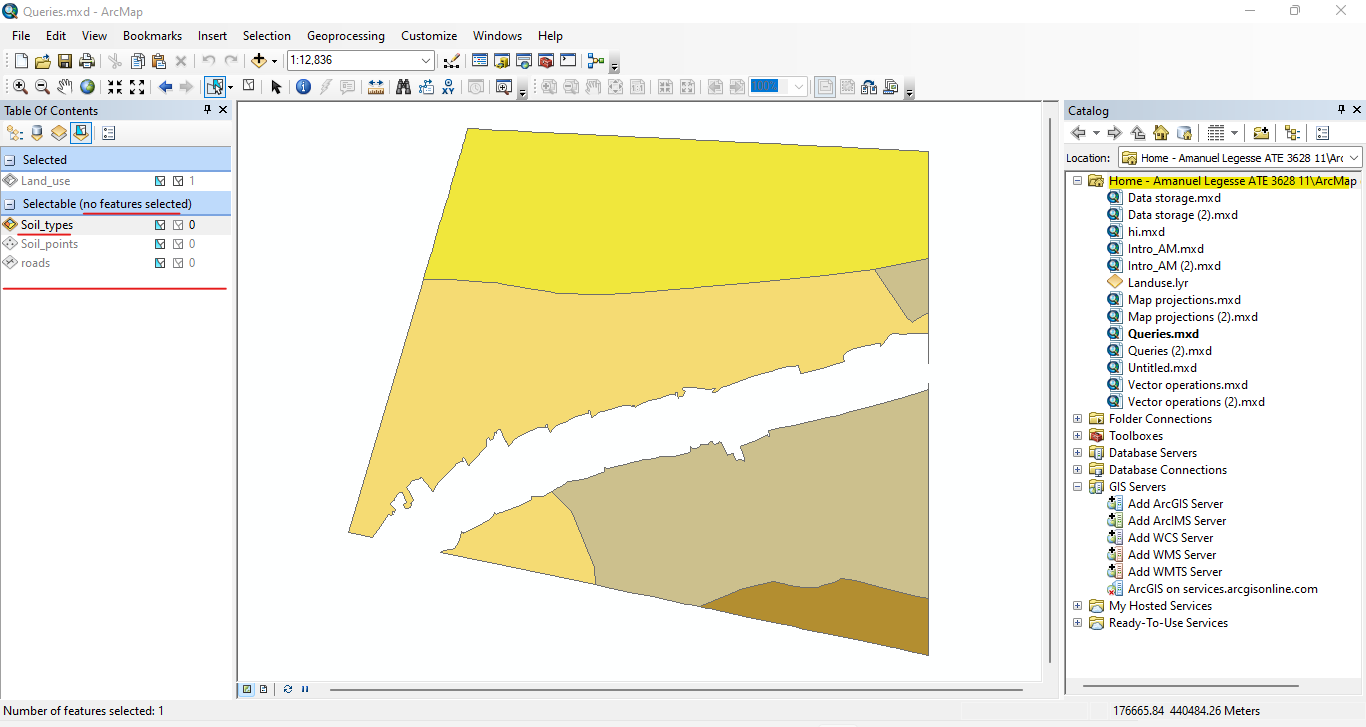
A: The selected feature which is the mathematics building is highlighted as yellow.



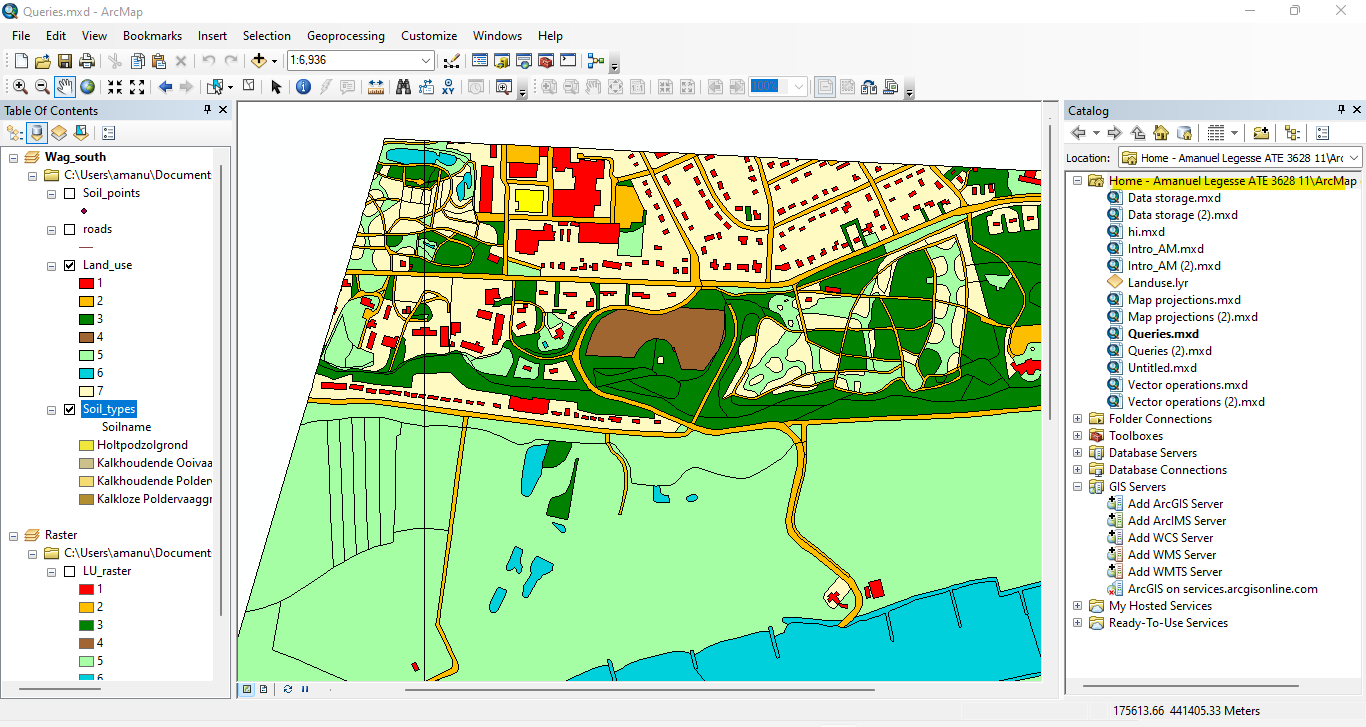
* The mathematics building also the soil feature in which the building is located is selected

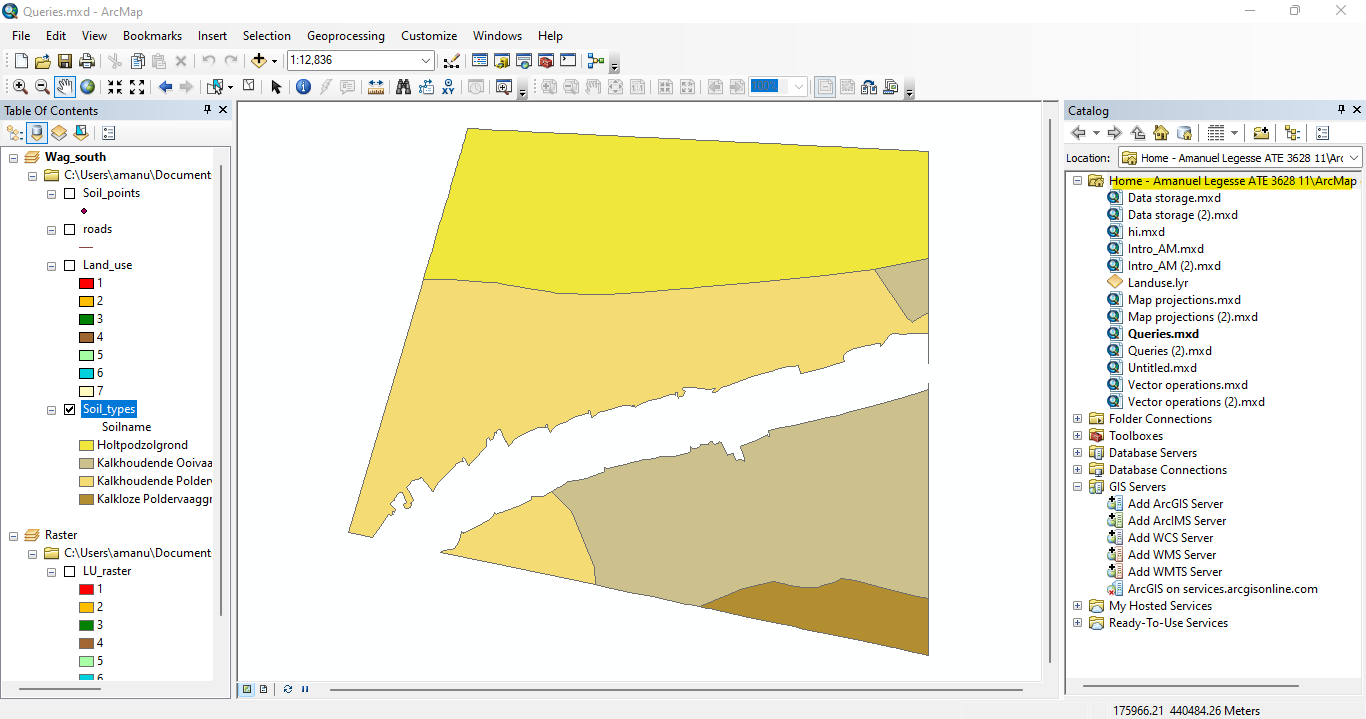


**B**:

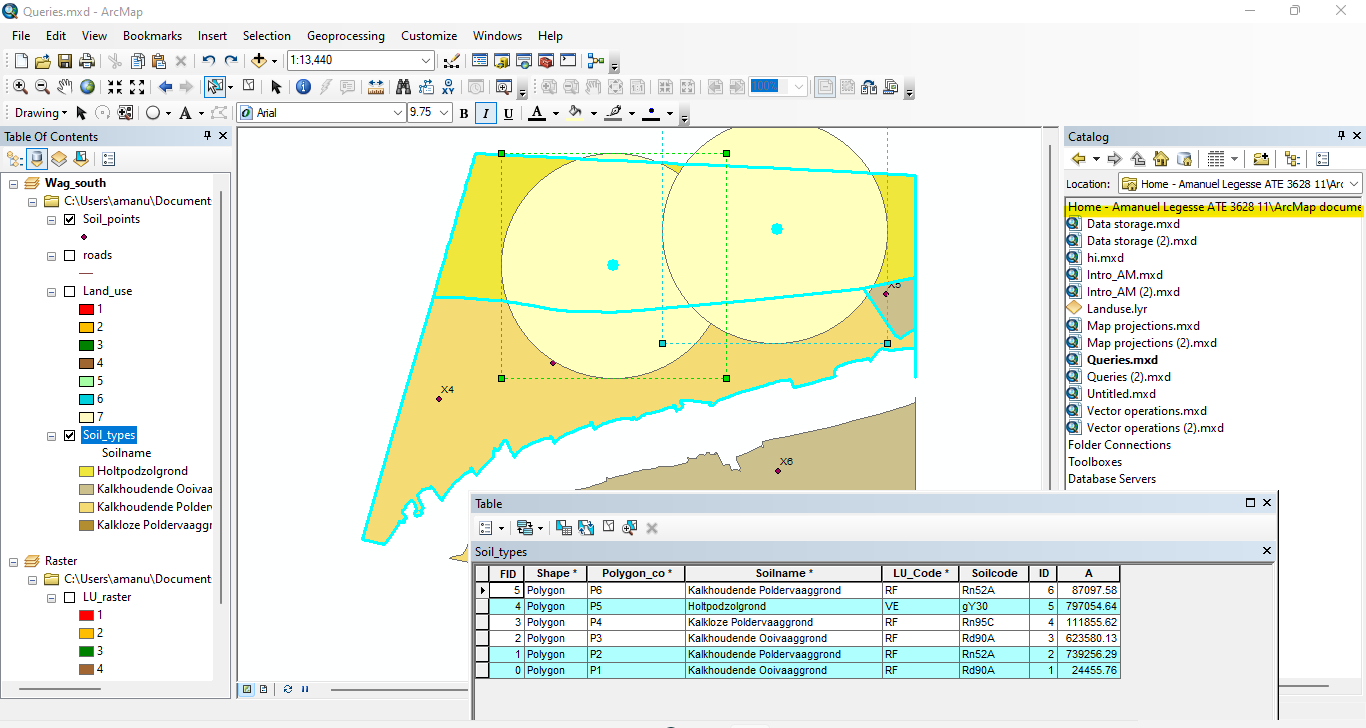


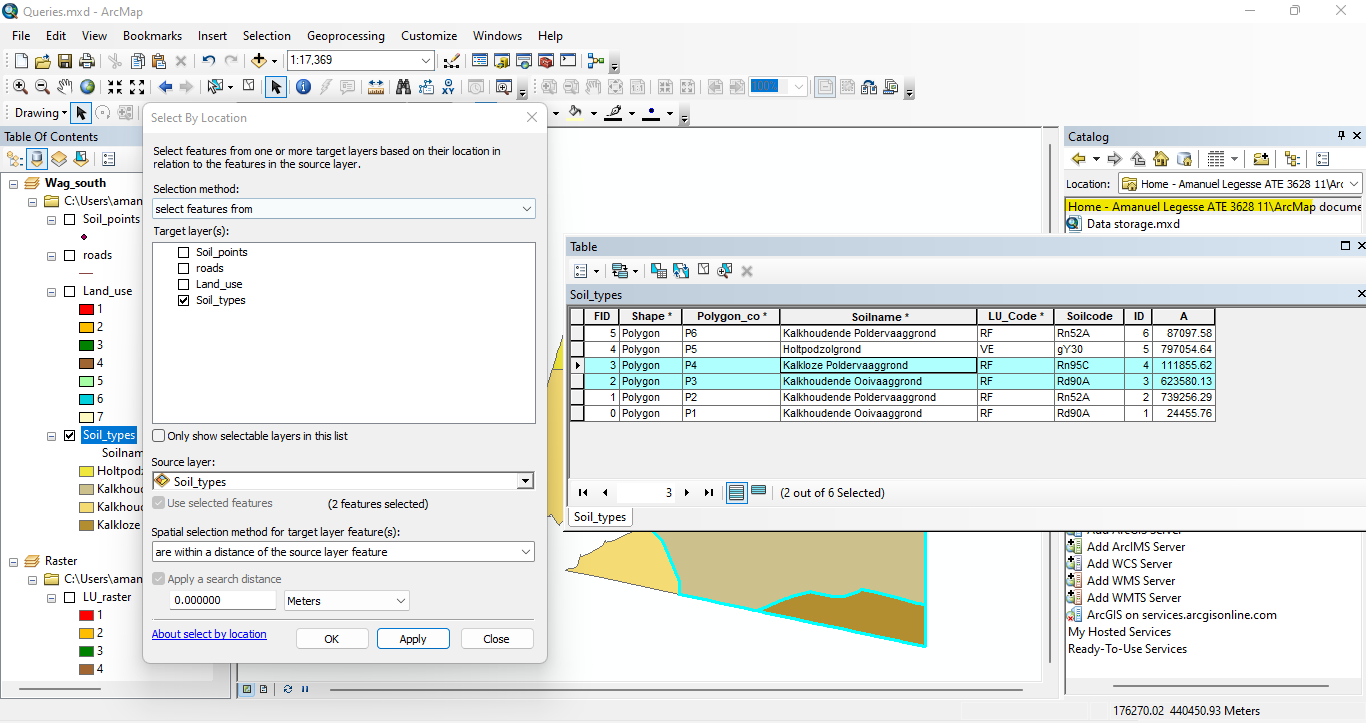
**C**: Now that the soil\_types has been made not selectable the mathematics building is selected t and not the soil feature on which this building is located.



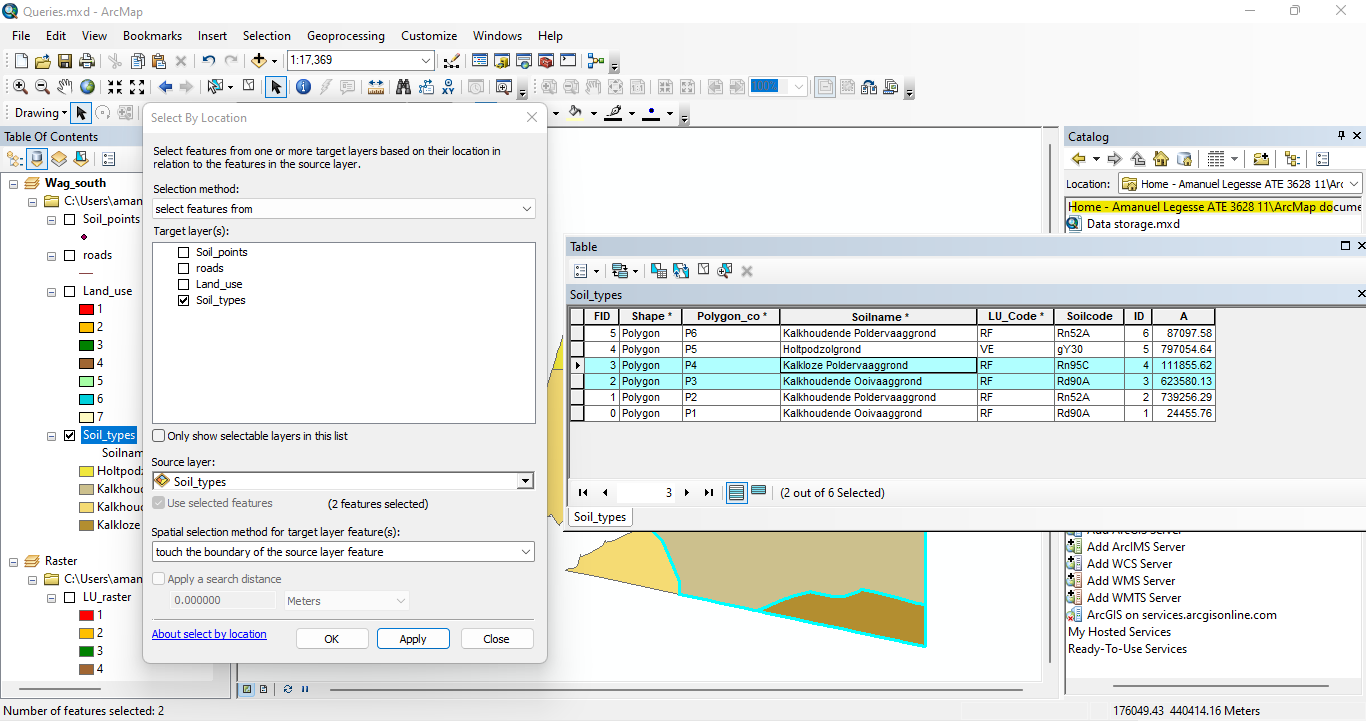


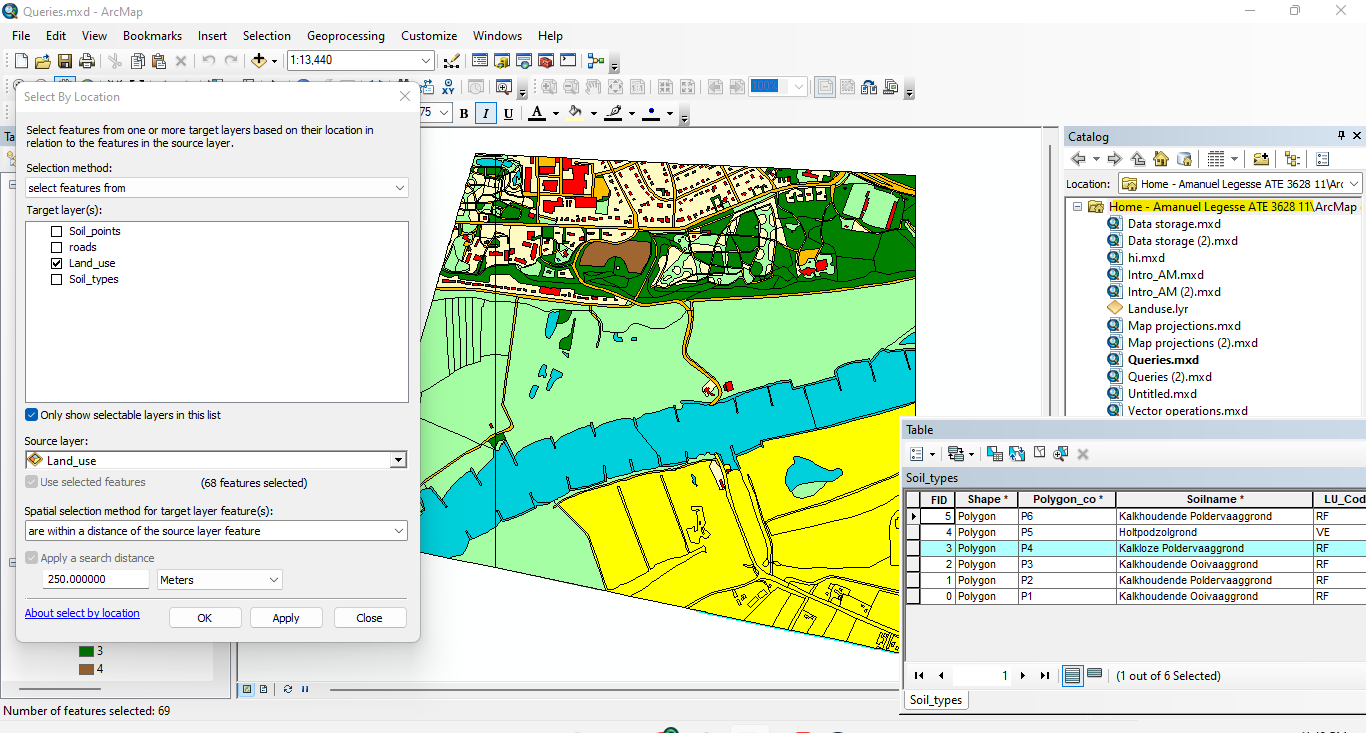
1. The soil codes of the selected features are Rd90A, Rn52A and gY30.



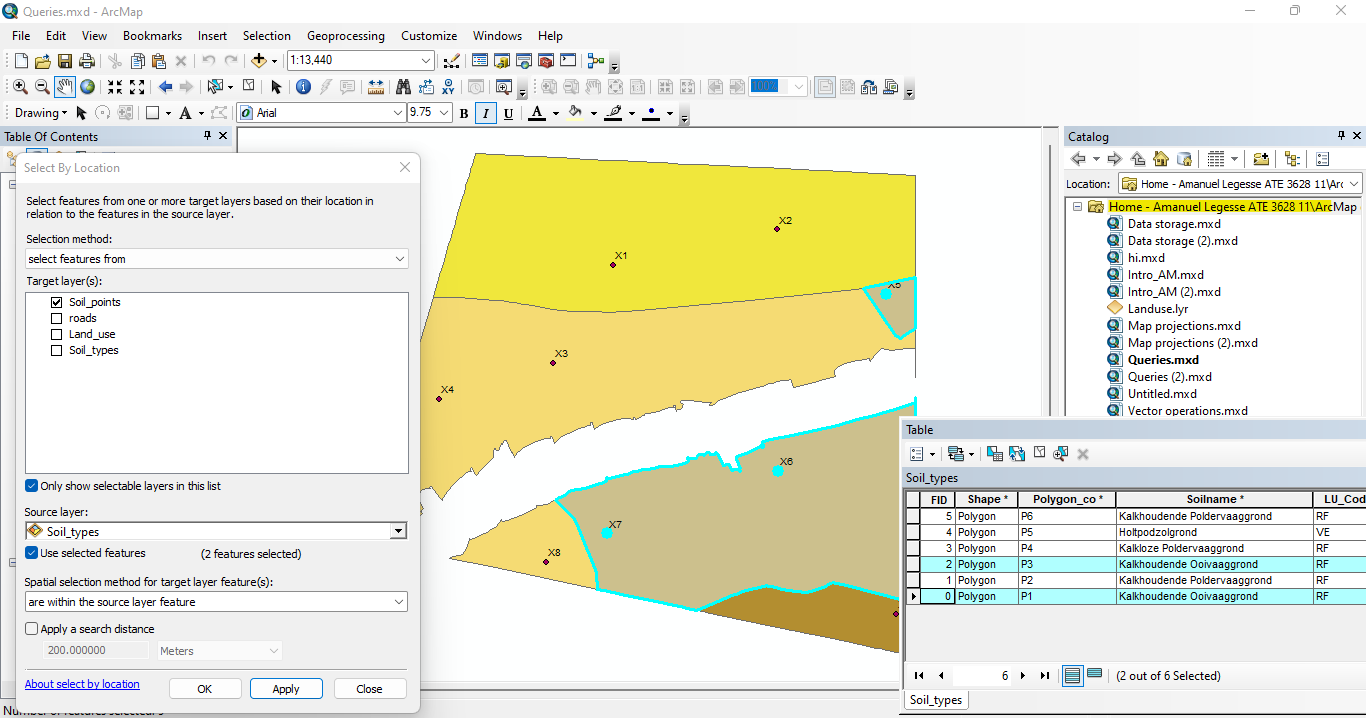
1. A: 2 features are selected, ‘kalkloze poldervaaggrond’ and ‘kalkhoudende ooivaaggrond’

**B**: By using ‘touch the boundary of’ spatial relationship, there can be made the same selection.



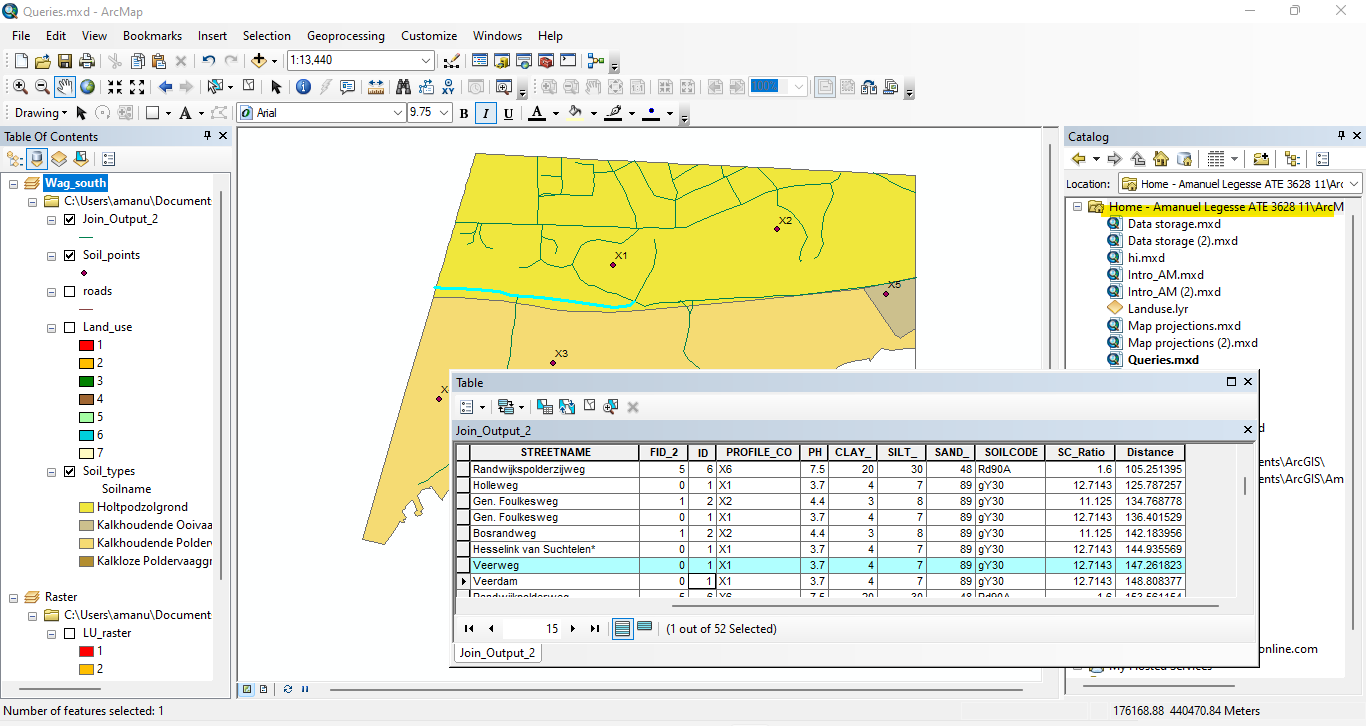
**C**: This selection results in 68 selected features in the land\_use dataset. 

1. Point X5, X6, X7 are within the soil features classified as ‘Kalkhoudende Ooivaaggrond’.



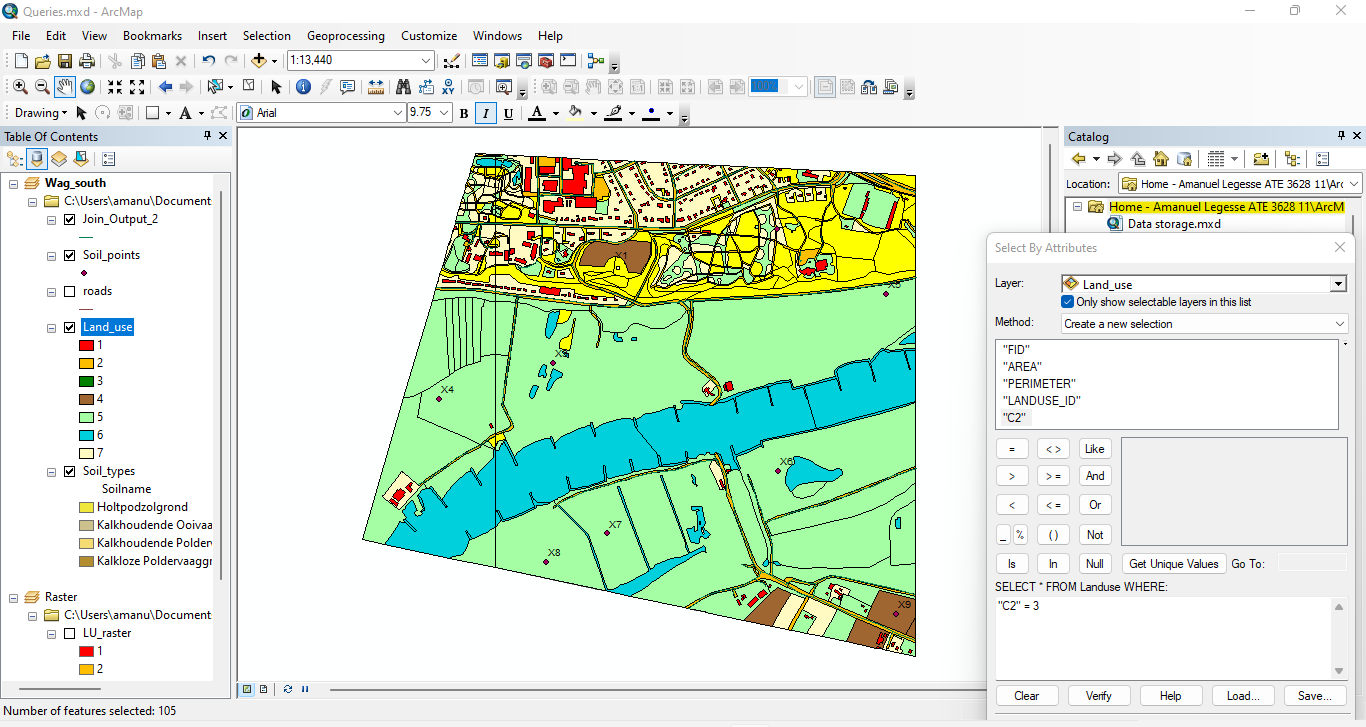
1. A: The nearest soil profile point to the Veerweg is point X1.

B: The distance is 147.3 meters.

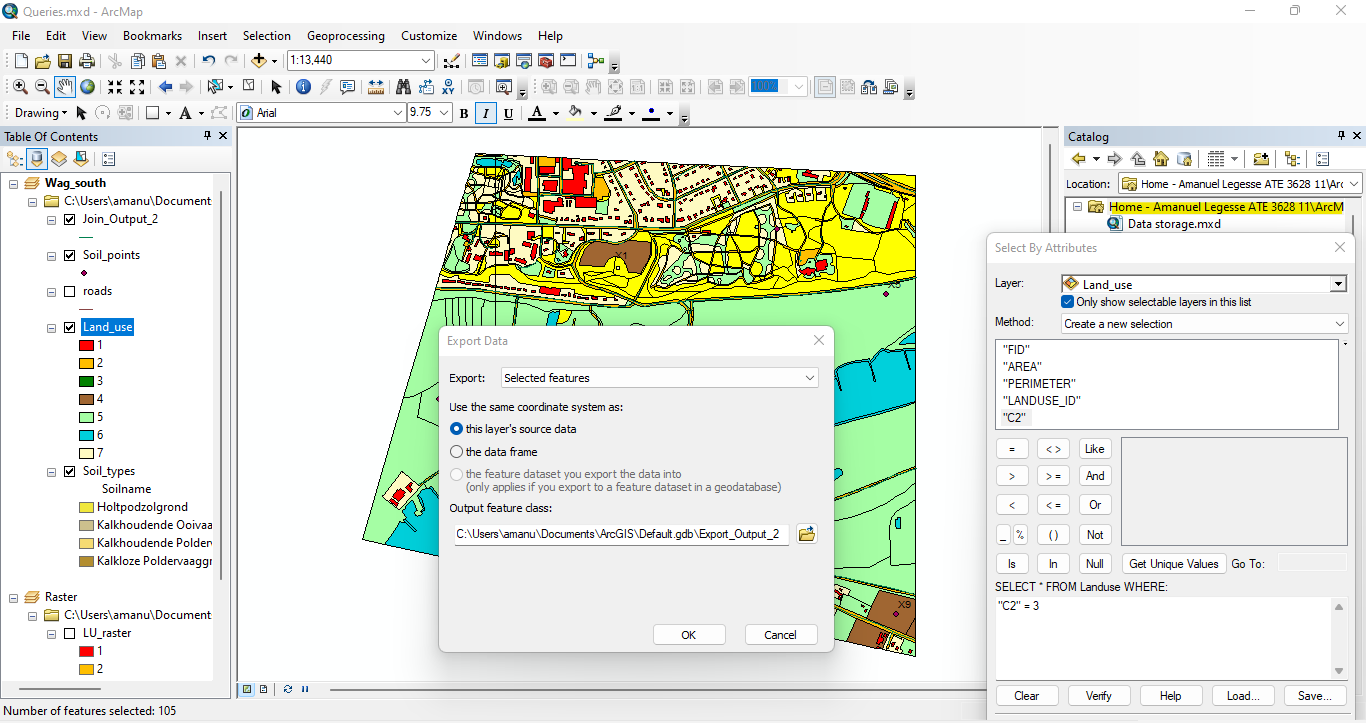


**Saving a selection into a new vector dataset**

1. **A:**

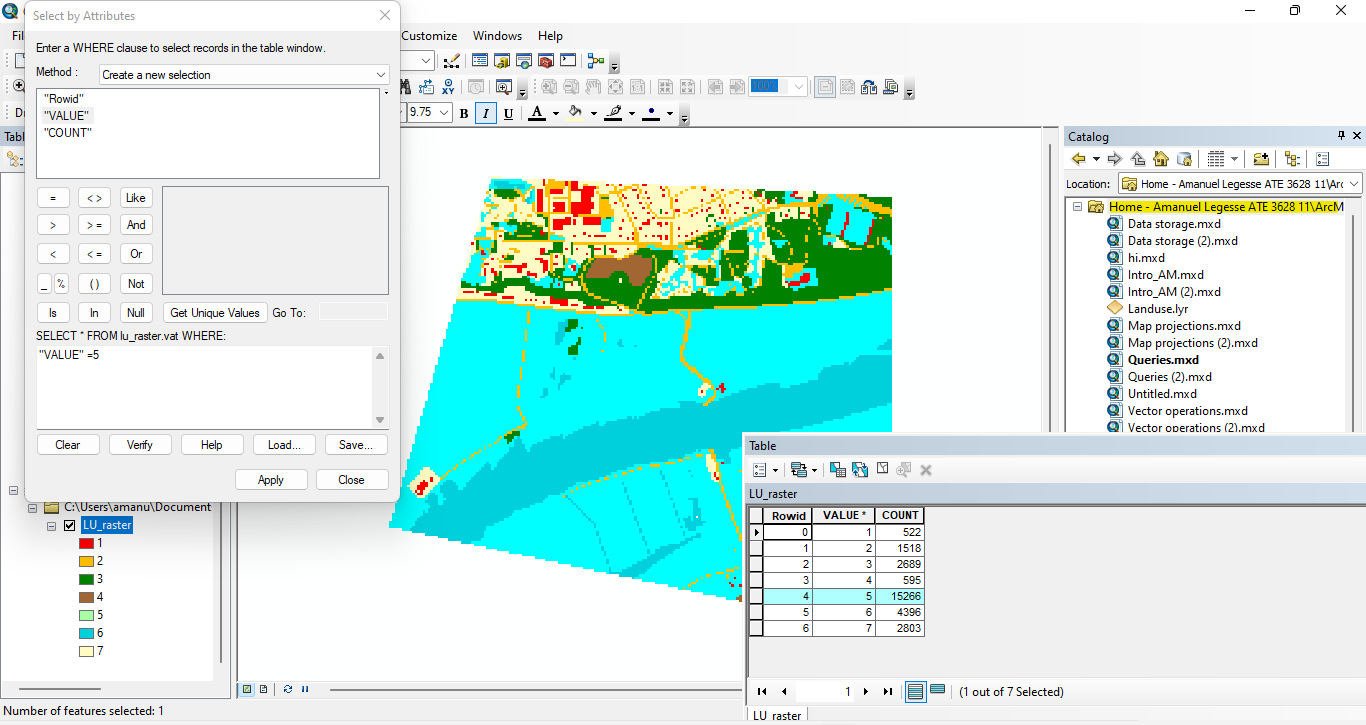


**B:**

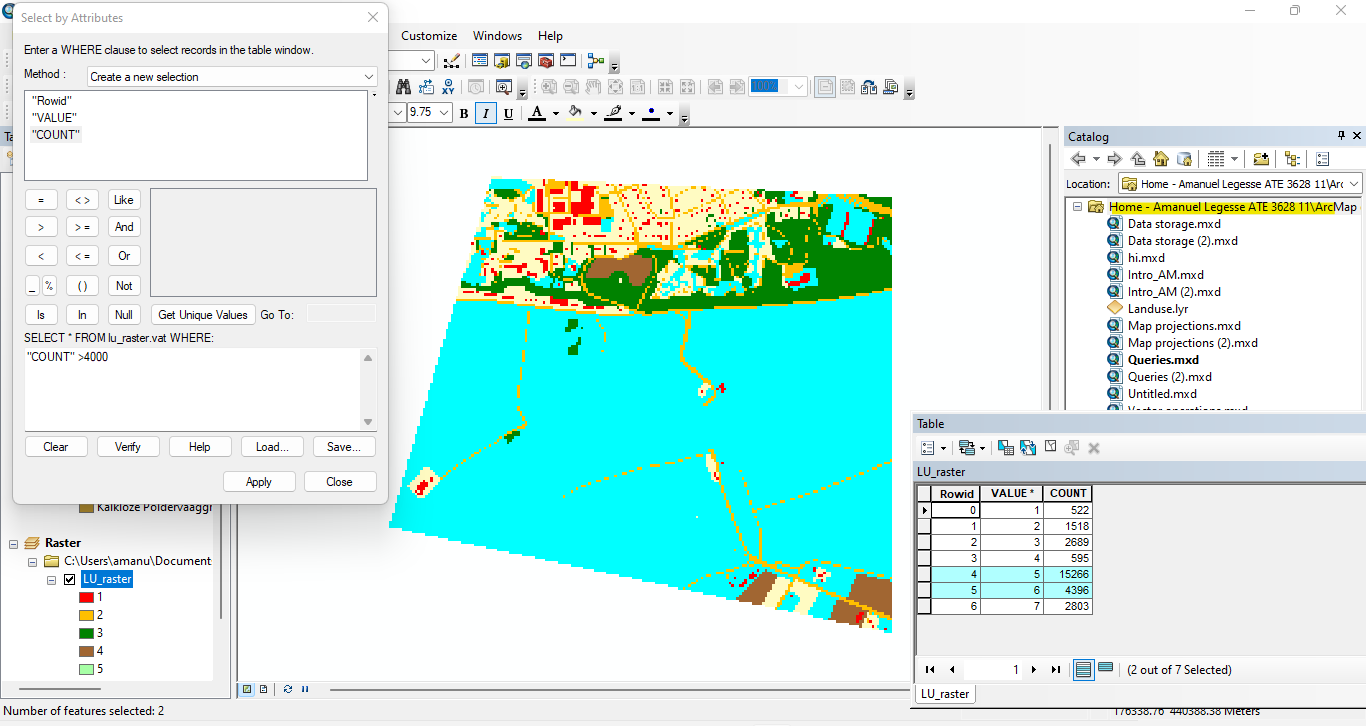


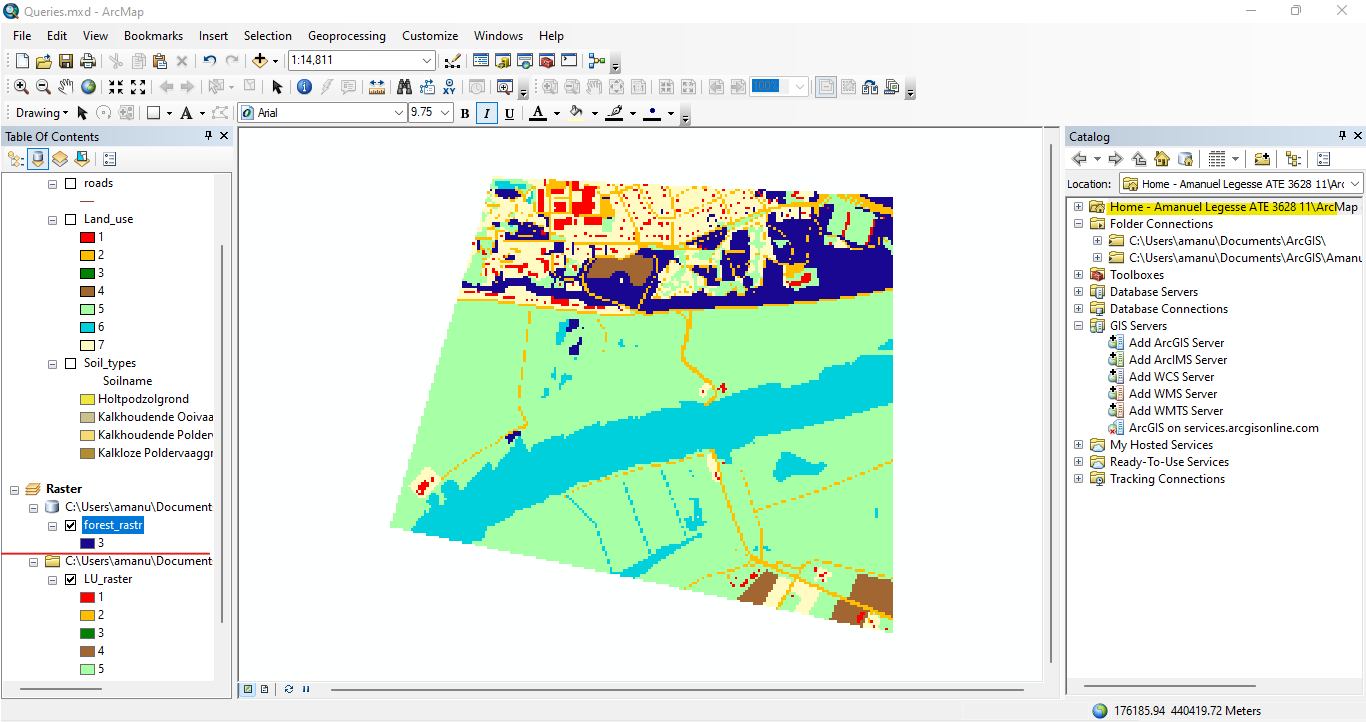
**Selecting and exporting raster cells using the ‘CON’ tool**

**A**: 15266 cells are selected.



**B**: Classes with value 5 and 6 are selected.



**C**: 

**D**:

