SUMMARY

The execution of the dissertation that is come up: “Others exploitations of Segarra-Garrigues irrigation channel’s concession: the supply in the Metropolitan Area of Barcelona has three big parts that are clearly diverse, on the one hand the analysis of the situation of the supply in all Catalonia and in the Metropolitan Area of Barcelona in particular. And on the other hand, the situation of all that surrounds the Segarra-Garrigues channel's substructure. And finally, from all that is analysed in the two last sections, the approach of the substructure's execution in order to solve an important problem like the supply in the Metropolitan Area of Barcelona from some conditional factors that surround the construction of Segarra-Garrigues channel.

Focusing on the first big section of the dissertation, about the supply in the Metropolitan Area of Barcelona and its surroundings, I have to mention that there is an important problem that has to be solved. The supply in the known zone is not guaranteed with its totality of form that with too much frequency, some water restrictions and bills of droughts decrees are produced. This is caused because of the irregular rainfall in the zone and because of the big popular grouping and different activities (industry, services...) that are done in the metropolis and the Barcelona surroundings.

Referring to the second big section of the study, about the Segarra-Garrigues channel, I have to mention that the connective situation about the construction is not the most suitable to develop and take advantage of the substructure that is set out. Generally, the continuous damage in the Agriculture and in the first sector, the important cost prices that the farmers have to take on in order to turn their fields into the future irrigation that the channel is going to provide, and the important channels of water to the irrigation system that the futures will have to take, are the main factors in the connective situation that surrounds the channel. All of this has caused that between 25-30% of the affected farmers for the construction don't want to be adapted to the new irrigation cultivations and in this way cause an existence of spare water with regard to the initial concession that had been done to the irrigation system.

It is clear, then, that in two different places there are also, two different problems. So that, making light of a problem from a situation to another place is set out. This is the way to study the viability to use the water that is left from the initial concession of Segarra-Garrigues channel to reinforce the supply that shows a negative balance from the Metropolitan Area of Barcelona and its surroundings. In this sense the option that will be proposed, it will be an interconnection of basins in order to unify our territory’s climatology, the reversible character of the interconnection has to give an added value to the set out option.