

Locating a Well on the Property

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If we want to have a well on our property, we must carefully consider its placement to maintain a sufficient distance from potential sources of possible contamination.

These required distances vary according to the type of potential contamination. Let's say that for less permeable environments, the required distances are given as follows:

1. cesspools, small sewage treatment plants, sewage connections: 12 m;
2. liquid fuel tanks for individual heating located in a residential building or a separate auxiliary building: 7 m;
3. stables, urine pits and manure pits for the small-scale housing of individual livestock: 10 m;
4. public roadways: 12 m;
5. individual washing areas for motor vehicles and drain pipes and ditches leading from them: 15 m.

Exercise. A well needs to be built on the plot P_1 (shown on the plan in the figure). The plan shows where a house (rectangle) and a cesspool (circle) are located on the plot P_1 , and where a house (square), a cesspool (circle) and a car wash area (rectangle) are located on the neighboring plot P_2 . The plan also shows the road passing by both plots. Mark on the plan the area where the well can be placed according to the rules.

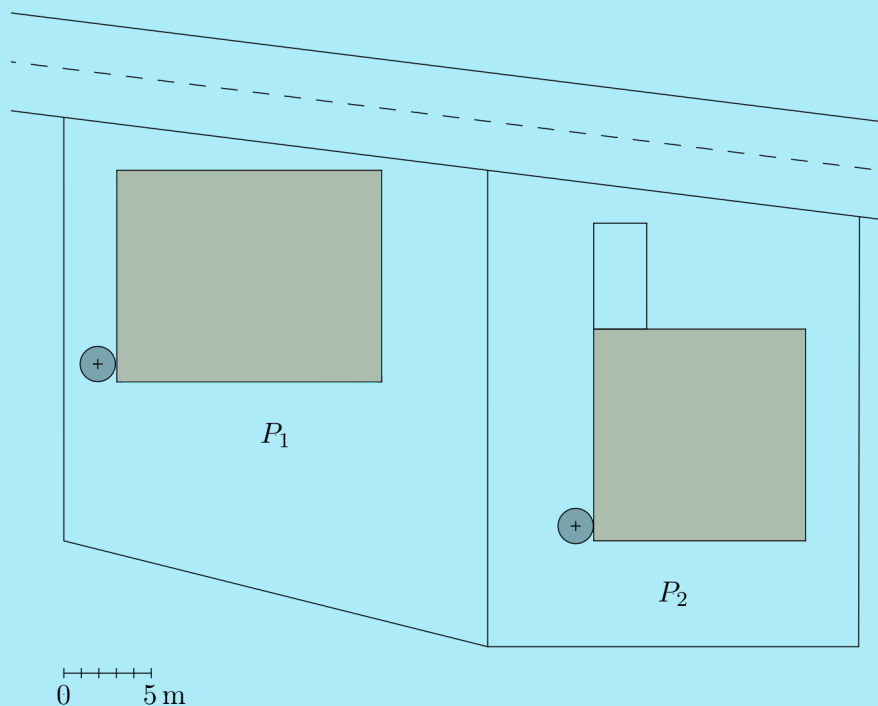


Figure 1: Situation sketch