STUDENT NUMBER: 19 _ _ _ _

SPOT 1

Observations (14 marks)

TIME LIMIT: 40 MINUTES.

Task Guideline

You are currently at SPOT 1 (see Map 1.1 on a separate sheet), the part of it you're looking at is built on the gentle slopes of Northern Bandung.

1. **Identify the current land use** of Bukit Pakar Area based on your observation and the satellite map (Map 1.1), **draw and label** the land use zoning on the blank map provided (Map 1.2 on a separate sheet) [2 marks]

2. **Draw arrows on Map 1.2** indicating where runoff water would flow inside the area bordered by the red line on Map 1.2 [1 mark]

3. Based on your previous analysis, **identify which land use is more likely to have a higher runoff coefficient** i.e., when it rains, higher runoff coefficient means that more water will become runoff compared to being absorbed into the soil [1 mark]

   Highest Runoff Coefficient Land Use : _____

   Lowest Runoff Coefficient Land Use : _____

4. **Point out 4 factors** that you think would be the most dominant in affecting the runoff coefficient in Bukit Pakar and **explain your reasoning** [4 marks]
   1. ……
      ……
   2. ……
      ……
   3. ……
      ……

4. .....

   .....

5. Runoff water from upstream areas can be a blessing or a curse for communities further downstream. **Point out and explain one positive and one negative** impact of Bukit Pakar's runoff water for downstream communities in Bandung [2 marks]

   Positive impact:

   .....

   .....

   .....

   Negative impact:

   .....

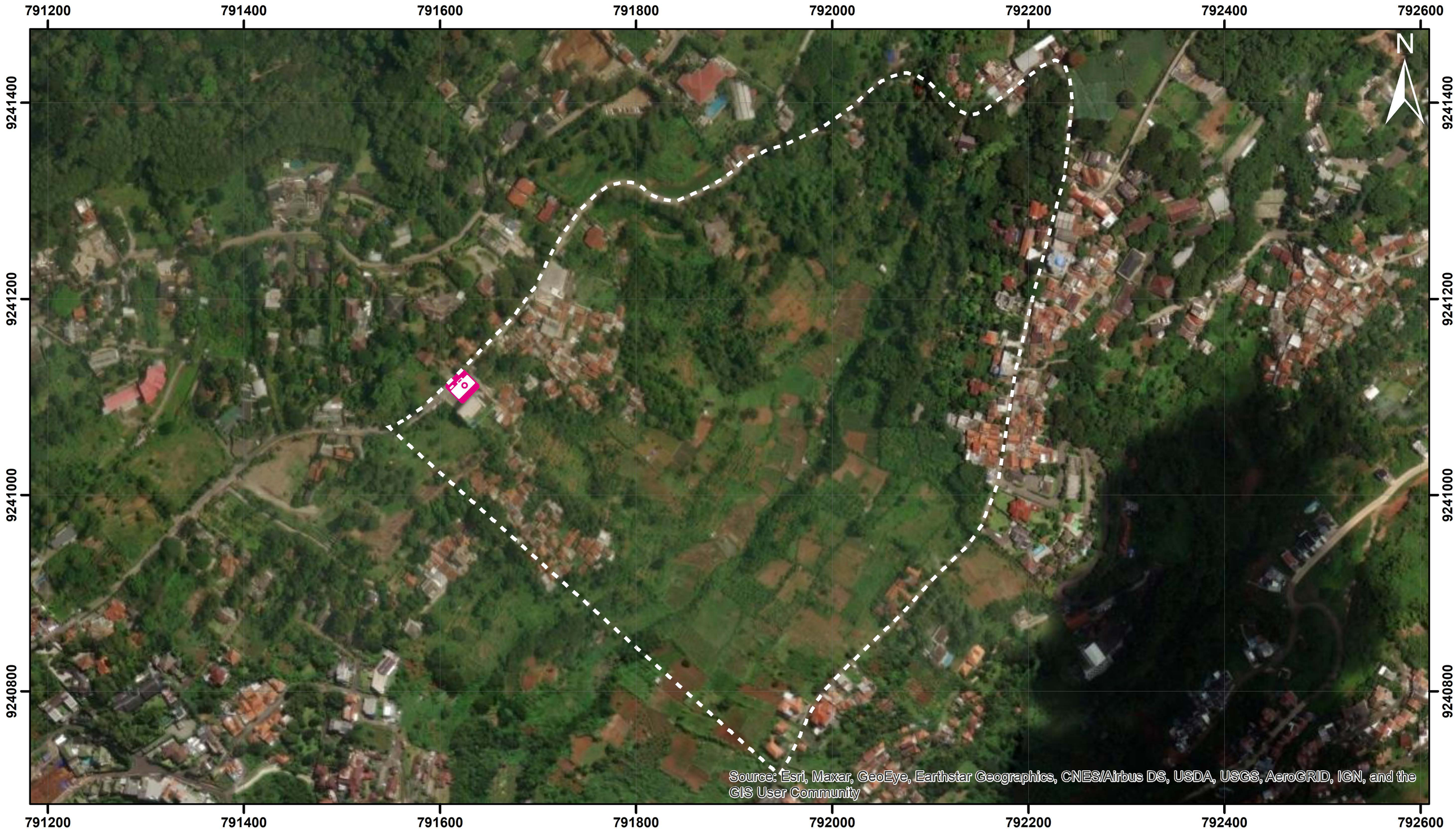
   .....

   .....

6. **Explain vegetative and structural methods** that you think would be most appropriate for reducing the runoff water in Bukit Pakar based on your observations [4 marks]

Method	Explanation

End of Question at Spot 1



MAP 1.1

Observation Spot

Observation Area

STUDENT NUMBER: 19 _ _ _ _