The residents of Rockingham County, served by public water systems (waterworks), depend on both groundwater and surface water for their potable water needs. The majority of these residents get their water from groundwater sources. Both surface water and groundwater are vulnerable to pollution and overuse. In Virginia, the Department of Health’s Office of Drinking Water (VDH-ODW) is the agency that regulates public drinking water. The VDH-ODW developed a Source Water Assessment Program\(^1\) to promote the implementation of source water protection\(^{ii}\) measures by the waterworks community. Once a Source Water Protection Plan is created, the VDH-ODW recommends that the Local Advisory Committee review the plan every three years.\(^{iii}\)

Rockingham County has hired your company to develop the County’s initial three-year Source Water Protection Plan and associated outreach ideas. Your company will present plan details to the Rockingham County Board of Supervisors.

When writing this plan, please address the following:

1. Identify and explain potential threats to Rockingham County’s groundwater and surface water.
2. Develop and describe strategies to protect groundwater and surface water.

**During your presentation ensure you answer the following questions:**

- What Best Management Practices do you recommend and why?
- What are the costs of these Best Management Practices and what are other costs associated with the plan to the County?
- How will these Best Management Practices do the following:
  1. Protect water supply
  2. Help conserve water
  3. Allow for economic growth
  4. Protect human health
  5. Protect wildlife
  6. Provide additional benefits

- How should the County engage the community and handle outreach for the Source Water Protection Plan?
- What other factors should be taken into consideration when making this plan?

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