**Tree Planting Proposal Rubric for Geospatial Skills**

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| --- | --- | --- | --- | --- |
| **Criteria** | **Needs Improvement (5)** | **Adequate (6)** | **Proficient (7)** | **Exemplary (8)** |
| Use GIS to manage, display, query, and analyze geospatial data.  Use geospatial analysis to process geospatial data for the purpose of making calculations, and inferences about space, geospatial patterns, and geospatial relationships.  Use geospatial data analysis in which geospatial relationships such as distance, direction, and topologic relationships (e.g. adjacency, connectivity, and overlap) are particularly relevant. | Some or all the proposed tree plantings are not placed into locations with specificity (“I will put the trees in the parking lot”)**.** | The policy describes the geographic locations of the of the proposed tree plantings (for example: in the main parking lot). | The policy describes the geographic locations of the of the proposed tree plantings (for example: in the main parking lot). | The policy describes the **specific** geographic locations of the proposed tree plantings (for example: on the northeast corner of  the main parking lot). |
| At least one screen shot from the Web GIS are included. | At least two screen shots from the Web GIS are included. | At least three screen shots from the Web GIS are included. | At least three screen shots from the Web GIS are included. Added detail will be present through detailed imagery added, labels, legends, and so forth. |
| Existing trees or other features on the Building 21 property were not considered. | Existing trees or other features on the Building 21 property were not considered. | The proposed tree locations take into account existing trees and /or other features on the Building 21 property. | The proposed tree locations take into account existing trees and /or other features on the Building 21 property (for example, slope of the ground or drainage patterns of water). |
| Use inductive and deductive reasoning to analyze, synthesize, compare, and interpret information.  Use logic and reasoning to identify strengths and weaknesses of alternative solutions, conclusions, or approaches to problems. | No site selections are practical. | One site selections is practical. | At least two site selections are practical. | At least two site selections are practical. |
| A justification is not provided that explains why the two recommended locations are ideal locations. | A justification is provided that explains why the two recommended locations are ideal locations. | A valid justification is provided that explains why the two recommended locations are ideal locations. | A valid justification is provided that clearly explains with **much detail** why the two recommended locations are ideal locations. |
| Does not address alternative locations or species. | Alternative locations **or** species that were not selected are addressed | Alternative locations **and** species that were not selected are addressed. | Alternative locations **and** species that were not selected are addressed with **much detail**. |

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Tree Planting Proposal Rubric 2

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| --- | --- | --- | --- | --- |
|  | The major benefits of | The major benefits of | The major benefits of | The major benefits of |
| planting trees in the | planting trees in the | planting a particular species | planting a particular species |
| locations are not included. | locations are included (for | in all three locations are | in all locations are included |
|  | example: trees are tall and | included (for example: a | (for example: a certain |
|  | will supply shade to that | certain species is quite tall | species is fast growing, quite |
|  | area). | and will supply shade to that | tall and will supply much |
|  |  | area). | shade to the area that |
|  |  |  | currently has no trees) |
| The proposal does not state | The proposal somewhat | The proposal states how the | The proposal clearly states |
| how the tree plantings will | states how the tree plantings | tree plantings will impact or | how the tree plantings will |
| impact or change the | will impact or change the | change the environment. | impact or change the |
| environment. | environment. |  | environment. |