

| A. IMPACTS TO ENVIRONMENTAL RESOURCES  | None/NA | Negligible | Minor | Moderate EA/EIS required | Major EA/EIS required | More Data Needed to Determine |
|--|---------|------------|-------|--------------------------|-----------------------|-------------------------------|
| 1. Geological resources: soils, bedrock, slopes, streambeds, landforms, etc.   |         | X          |       |                          |                       |                               |
| <p><b>Explain:</b> No long-term impacts to soils or geology are expected as a result of the construction of the Athletic Fields and Buildings in Thomas Edison Park. The topography of the proposed Athletic Fields and Buildings in Thomas Edison Park would be similar to that of the existing site; therefore, no substantial impacts to geology and soils would result. Additionally, no blasting or alteration of the underlying geology is anticipated to be required, resulting in no long-term impacts to geology within the study area. Stormwater management systems would be installed to promote the settling of eroded particles, resulting in no long-term impacts to water quality during the operational phase of the Proposed Project.</p> <p>Short-term construction activities associated with excavation for the installation of the Athletic Fields and Buildings in Thomas Edison Park would result in land and soil disturbance. Land disturbance has the potential to result in soil erosion as exposed soil can be washed or blown by water and wind, respectively. Unmitigated soil erosion can impact local waterways by increasing the sediment load and the potential for erosion is greater in areas with soils exhibiting a severe erosion hazard potential. To address this potential effect, Middlesex County would comply with the New Jersey Soil Erosion and Sediment Control Act (N.J.S.A. 4:24-39 <i>et seq.</i>) and apply BMPs to control soils over the long-term. Specifically, temporarily exposed soils would be permanently stabilized at the conclusion of project construction. Given that any potential impact to soils will be successfully mitigated, negligible adverse impacts to soils, bedrock, slopes, streambeds, landforms are anticipated.</p> <p><b>NPS COMMENT:</b> Have impacts to the biology of the soil covered by artificial turf be evaluated?</p> |         |            |       |                          |                       |                               |
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| 2. Air quality.  |         | X          |       |                          |                       |                               |
| <p><b>Explain:</b> An assessment was conducted to evaluate the effects on air quality as a result of the vehicle parking improvements to support the Athletic Fields and Buildings in Thomas Edison Park on both a local and regional level. It was determined that the Project would improve traffic congestion conditions within the project area, resulting in an anticipated reduction of vehicle operational emissions; consequently, both localized and regional air quality conditions are anticipated to benefit from the Proposed Project. Therefore, operation of the Project would be in compliance with the State Implementation Plan and have no negative impacts to air quality.</p> <p>Construction would result in short-term, intermittent air quality impacts around proposed parking areas due to the operation of construction equipment, vehicles, and privately-owned vehicles. Site clearing, grubbing, and grading would result in localized increases in particulate matter. However, by application of dust management best management practices (BMPs) such as regular watering, construction of the Project would have negligible impacts to air quality.</p> <p><b>NPS COMMENT:</b> Please explain if the use of artificial turf over 11 acres will potentially impact the biology of the soil and potential chemicals released into the ground below the turf over several years. Please provide more information on the work that has been done to clean up contaminated soils and any potential effects from installing artificial turf.</p>   |         |            |       |                          |                       |                               |
| A. IMPACTS TO ENVIRONMENTAL RESOURCES  | None/NA | Negligible | Minor | Moderate EA/EIS required | Major EA/EIS required | More Data Needed to Determine |
| 3. Sound (noise impacts)   |         | X          |       |                          |                       |                               |
| <p><b>Explain:</b> As part of the Project's planning process, a traffic noise assessment was conducted in accordance with the guidelines set forth in NJDOT's Traffic Noise Management Policy and Noise Wall Design Guidelines (Noise Policy). This assessment evaluated the effects on noise as a result of the vehicle parking improvements to support the Project on both a local and regional level. Existing conditions were modeled using 2023 traffic counts while future conditions were modeled using 2028 traffic estimates.</p> <p>It was determined that future noise levels are anticipated to increase slightly between the 2023 Existing Condition and the 2028 Future Condition. However, all roadway changes are proposed within the Middlesex College campus away from residences; therefore, noise impacts are anticipated within Middlesex College, yet not within Thomas A. Edison Park or the surrounding residential neighborhoods. As such, noise impacts can be characterized as negligible.</p> <p><b>NPS COMMENT:</b> Please provide the traffic noise assessment report. Will there be any noise or local traffic impact from increased athletic events (i.e. soccer leagues, etc.)?</p>   |         |            |       |                          |                       |                               |