## Please include natural turf management in the alternatives to consider if you approve this bond measure.

- 1. Naturally managed grass fields serve as a **practical and safer alternative** to artificial turf.
  - a. Natural turf management practices can improve the health of soil and grass without the need for synthetic pesticides or fertilizers.
  - b. Well-designed and maintained grass fields absorb rain.
  - c. Grassy areas help to reduce the urban heat island effect. Artificial turf can reach extreme temperatures because they absorb heat on hot summer days. This can be unhealthy for players.
- 2. Natural turf maintenance can be **cost-competitive** with conventional management.
  - a. In general, artificial turf fields have a <u>higher life-cycle cost</u> than natural grass fields.
  - b. If full lifecycle costs, including installation, maintenance, and disposal/replacement are considered, a natural grass soil-based field is the most cost effective.
  - c. One <u>study</u> found that once established, an organic turf management program can cost 25% less than a conventional turf management program.

## The installation of artificial turf sports fields is contradictory to the city's climate goals:

- 1. According to the <u>Citizens Campaign</u>, the manufacturing, installation, service and disposal of a 2-acre artificial turf field is responsible for the generation of 55.6 tons of CO2.
  - a. The infill material migrates off the fields and into the environment, thereby requiring **periodic replacement** and introducing even more plastic and synthetic chemicals.
  - b. Fields require **periodic disinfection** with harmful fungicides, herbicides, and insecticides.
  - c. Degrading plastic pollution is a source of climate change gas emissions, and once it goes into a **landfill**, artificial turf fields release methane and contribute to global warming.
- 2. Artificial turf fields contribute to **microplastics pollution**.
  - a. The black rubber pieces are made from <u>old car tires</u> and <u>contain a variety of</u> <u>hazardous materials</u>. They are known to migrate into nearby bodies of water.
  - b. PFAs<u>leach off artificial turf</u> fields into the water. Numerous studies have shown that the water surrounding these fields quickly becomes contaminated due to stormwater runoff.

3. The **environmental health impacts** posed by plastic carpets and polypropylene shock pads are significant and should be at the forefront of any decision regarding these materials.

## Protect the turtles and other critical wildlife:

- 1. <u>The Western pond turtle is about to be protected under **endangered species** listing.</u>
  - a. "Endangered Species Act protections are a much-needed lifeline for our dwindling native West Coast turtles," said Jeff Miller, a senior conservation advocate at the Center for Biological Diversity. "Pond turtles are crucial to healthy rivers and wetlands, and losing them would impoverish aquatic ecosystems."
  - b. The Western pond turtle population is most threatened by habitat loss and fragmentation from urban development and agriculture, and climate change.
  - c. In Oregon's Willamette Valley, pond turtles appear to have declined by 99%.
- 2. Ecological <u>buffers</u> are protected zones established around sensitive or critical areas to lessen the impacts of human activity and land disturbance.
  - a. The <u>ODFW Native Turtle Best Management Practices</u> calls for a 500 ft. minimum buffer for minor infrastructure like picnic tables, and 1650 ft. for major infrastructure like roads (pg 40).
  - b. The <u>recommendation from Biohabitats</u>, the consultant the City hired for the site, suggested a minimum buffer of 500 ft and extending the buffer to 1700 feet where possible (pg 23-26).
  - c. Generally, wider riparian buffers can support higher species abundance and diversity.
- 3. Despite two separate entities advising nearly identical recommendations, park designs thus far have not incorporated these minimum buffers, instead prioritizing additional sports fields.