

## AIR QUALITY AND GREENHOUSE GASES

## Alternative 4 (Navy's Preferred Alternative)

- Construction activities would occur in four main areas: Pearl Harbor Naval Shipyard, Waipio Peninsula, Pearl City Peninsula, and Ford Island.
- Emissions and dust from construction activities would fluctuate throughout the day, and from day to day.
- Potential pollutant concentration increases would not persist in any single location because of existing wind patterns and variable work locations.
- Air quality impacts at all activity areas are not expected to exceed the ambient air quality standards or increase human health risks from hazardous air pollutants.
- Some greenhouse gas emissions would be generated during the construction of Dry Dock 5 and the waterfront production facility, after which emissions from operations would return to baseline conditions.

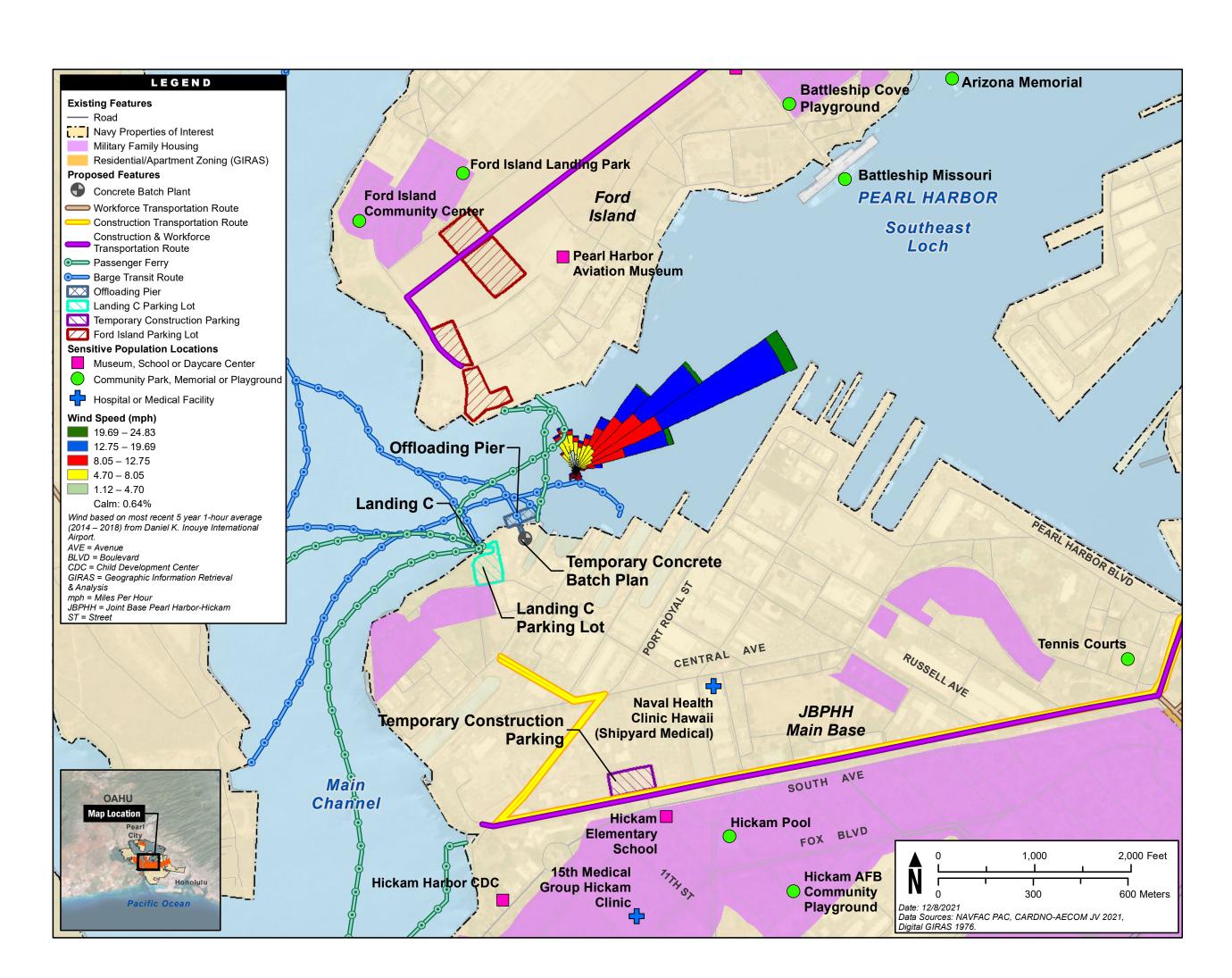
## Air Quality Impacts by Workforce Commuter Route Options

- Non-ferry commuter options (Options 1 and 3) would emit fewer emissions than the ferry options (Options 2, 4, and 5) due to more stringent emission standards for onroad vehicles.
- Option 4: "Waipio Point Route and Ferry Transport" would add commuter and vehicle emissions at the northern portion of the access road where Waipahu High School is located; however, the highly transient nature of the additional commuter traffic would result in very short-term increases in emissions with each shift.
- Option 5: "Ford Island Route and Ferry Transport" would add traffic below 2019 daily traffic volumes; therefore, construction impacts would be below 2019 Honolulu Maximum Design Values and calculated risks for hazardous air pollutants.

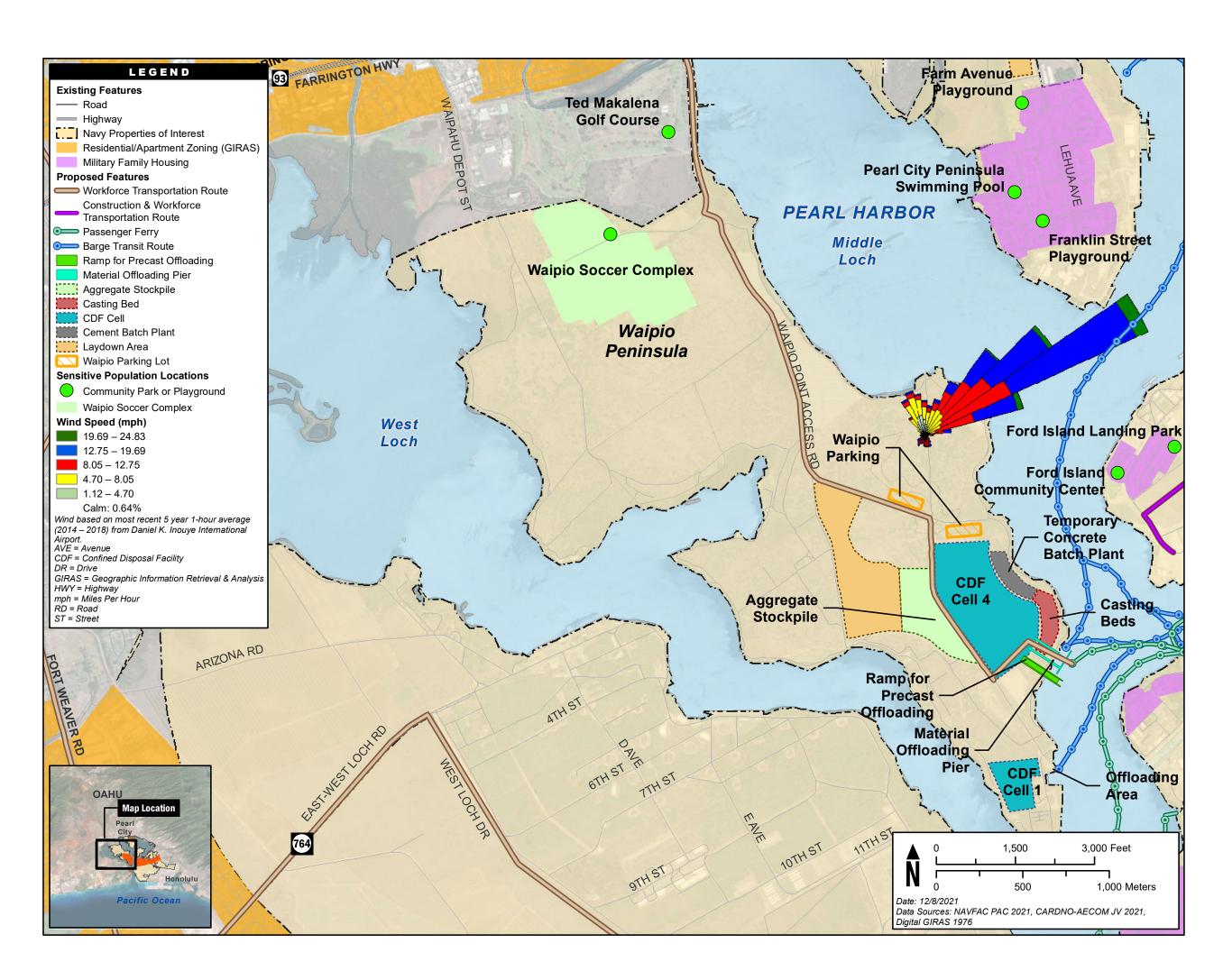
## Comparison to Other Action Alternatives

The nature of impacts would be the same across all action alternatives; however:

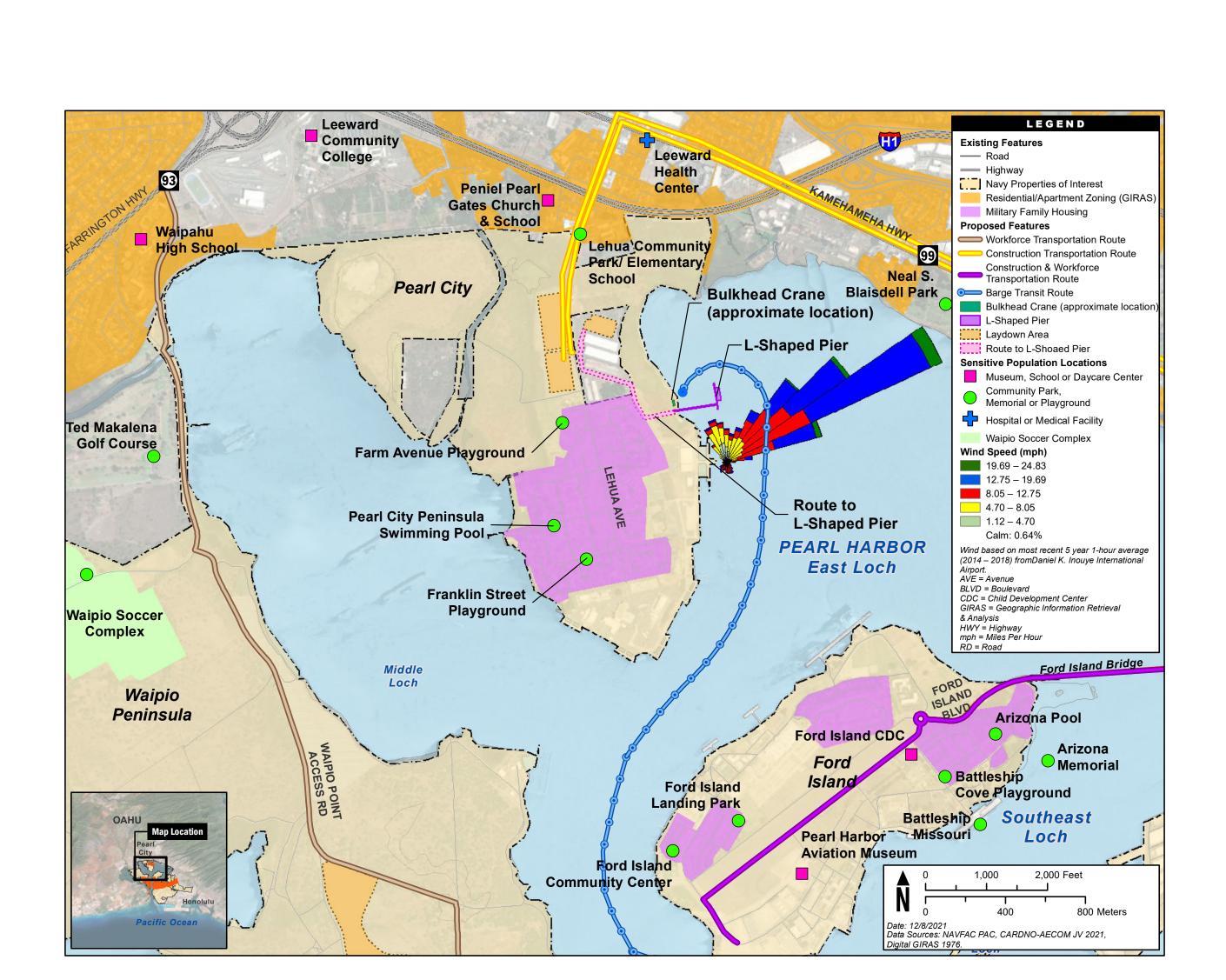
- Alternatives 3 and 5 would have a smaller waterfront production facility footprint, thereby resulting in fewer emissions than Alternative 2 or 4 because there would be less materials and time required for construction.
- Alternative 2 would have a larger footprint for the covered dry dock, thereby resulting in greater emissions than Alternative 4 because there would be more materials and time required for construction.



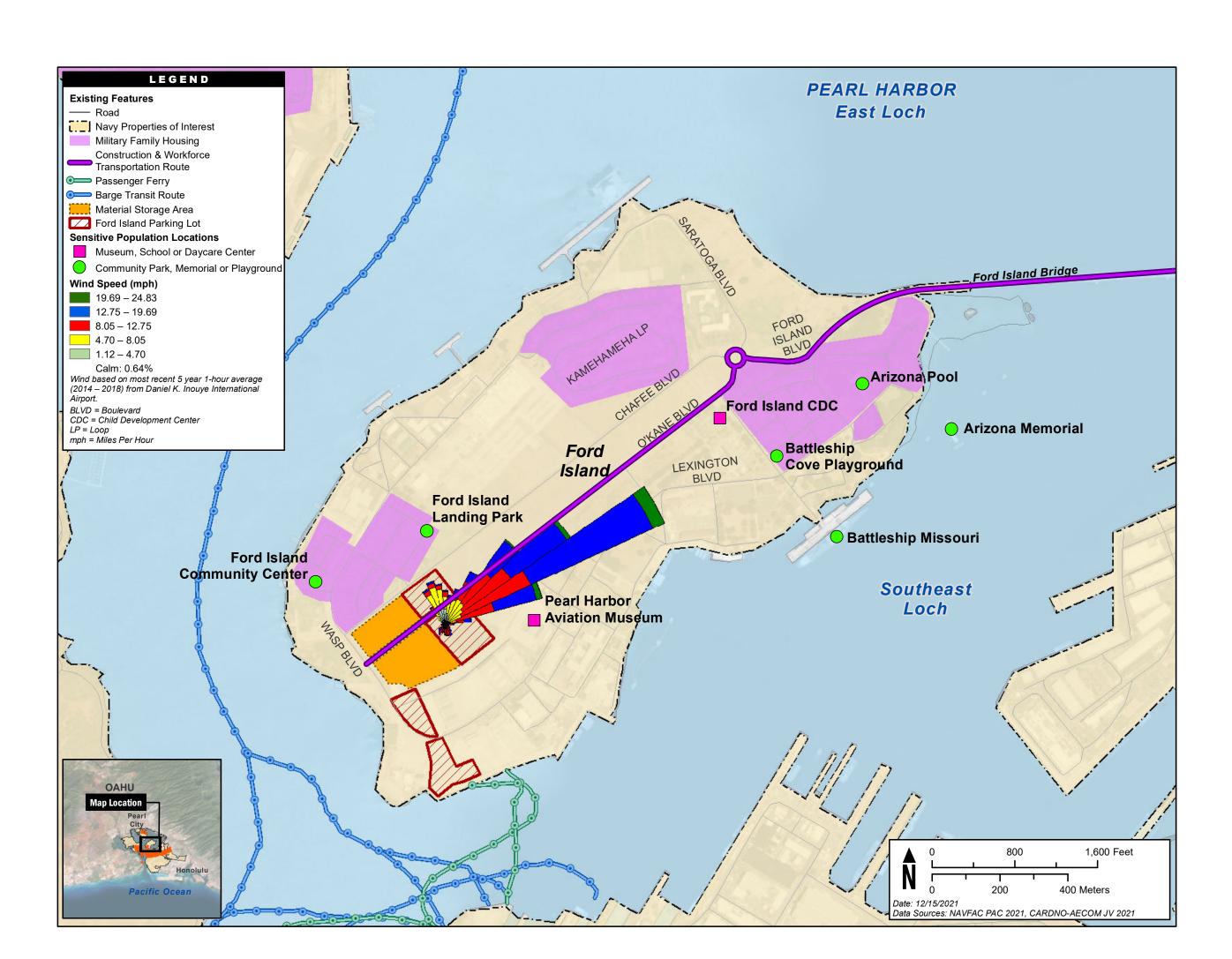
**Pearl Harbor Naval Shipyard** – Nearest sensitive/public receptors are areas within Joint Base Pearl Harbor-Hickam, including military housing.



Waipio Peninsula – Nearest sensitive/public receptor is at the Waipio Soccer Complex.



**Pearl City Peninsula** – Nearest sensitive/public receptors are military housing, a landscaping nursery, and the Lehua Community Park.



**Ford Island** – Nearest sensitive/public receptors are adjacent military housing and the Ford Island Child Development Center.

