

# GREEN PROJECT 34 | VEHICLE STORAGE FACILITY



## Existing vs. Proposed Storage

The project would reduce the one-way trip distance from 9 miles to the existing storage facility (Tuff Shed at 3355 Ventura Road in Ventura) to 1 mile to the project site.

## Associated Transportation Engineers (ATE) Traffic Study Summary

ATE conducted traffic counts and analysis for the project (August 2018). To inform the traffic analysis, traffic counts were performed along the proposed route by National Data & Surveying Services between the Port Gate and the project site on E. Port Hueneme Road to collect peak hour data at intersections and daily trip data along roadways.

### Traffic Analysis Results – Peak Hour Trips

| Number of New Trips Generated by Proposed Storage Facility |    |    |  |
|--|----|----|--|
| Peak Hour  | AM | PM |  |
| Proposed Storage Facility                                  | 24 | 7  |  |

| Existing Plus Project AM Peak Hour Trips |          |         |                |
|--|----------|---------|----------------|
| Intersection                             | Existing | Project | Percent Change |
| Ventura Road and East Port Hueneme Road  | 1,580    | 24      | +1.5%          |
| Market Street and East Port Hueneme Road | 1,584    | 24      | +1.5%          |

Project would generate: 120 total daily trips, including employee trips; 102 vehicle trips from import vehicles and shuttle van trips only

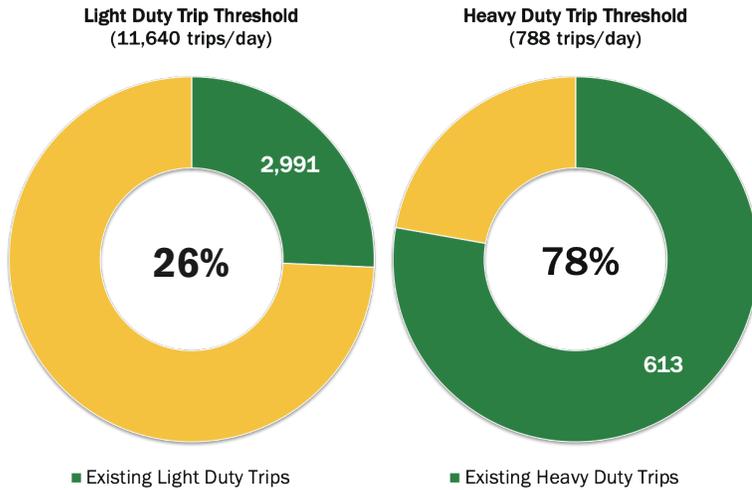
Traffic counts were performed along the proposed travel route from the Port to the proposed project site by National Data & Surveying Services on January 30, 2019 at the intersections of Ventura Road & E. Port Hueneme Road and Market Street & E. Port Hueneme Road. Assuming the project's 120 daily trips are all new trips at these intersections, the project would incrementally increase AM peak hour traffic volumes at both intersections by 1.5% and would increase PM peak hour traffic volumes by 0.4%. As noted in the Draft Mitigated Negative Declaration prepared for the project, none of the intersections along the proposed vehicle route currently operate at a below acceptable level of service (LOS C), and given the low volume of project traffic, the project would not result in an intersection operating below an acceptable LOS.



MORE: [portofh.org/greenproject34](http://portofh.org/greenproject34)

## Port Hueneme Throughput Thresholds

The Port of Hueneme has an established throughput threshold agreement with the City of Port Hueneme (1987).

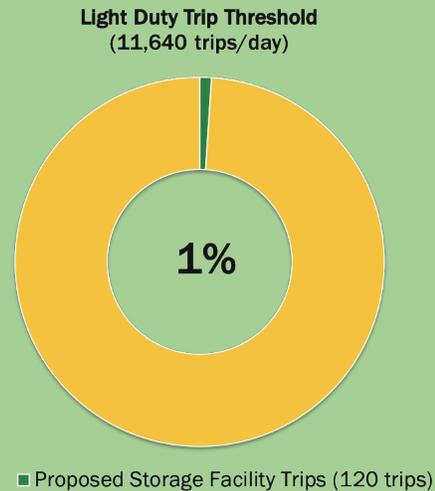


### EXISTING Port Vehicle Daily Trips

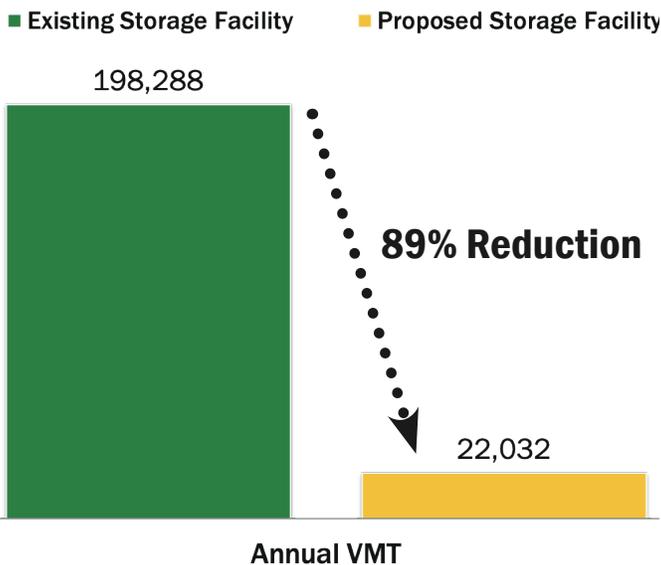
The 1987 Agreement contains a threshold of 11,640 average light duty vehicle trips per day and 788 average heavy duty trucks trips per day for Port activities. Conservatively assuming all light duty vehicle trips (2,991 trips) and heavy duty trucks (613 trips) recorded east of the Port Gate (E. Port Hueneme Road between Market Street & Ventura Road) are associated with the Port, existing daily Port trips total 26% of the average light duty vehicle trips per day allowed and 78% of the average heavy duty truck trips per day allowed under the thresholds. At this scale, the Port would have to at least triple the number of light duty vehicle trips (such as the imported vehicles associated with the proposed project) to exceed the light duty threshold.

### PROPOSED Storage Facility Daily Trips

Conservatively assuming that the project's 120 daily trips (inclusive of all employee, import vehicle, and van shuttle trips) are all new, the project would total 1% of the average light duty vehicle trips per day allowed under the threshold (11,640 light duty vehicle trips per day) established in the 1987 Agreement between City of Port Hueneme and Oxnard Harbor District. The project does not affect the heavy duty truck threshold because it would not involve any heavy duty vehicle trips.

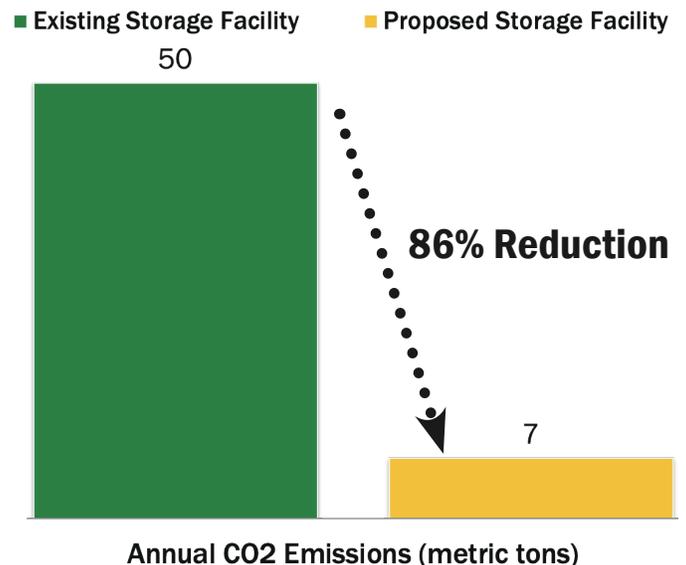


## Vehicle Miles Traveled (VMT)

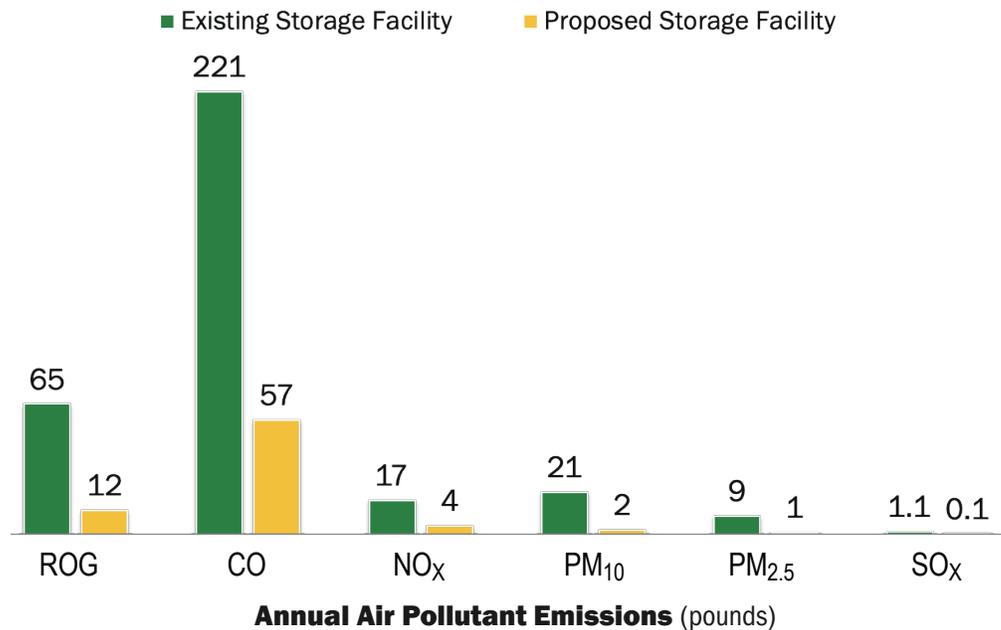


## GHG\* Emission Analysis

\*Greenhouse gas



## Air Pollutant Emissions from Vehicle Trips



**ROG** = reactive organic gases  
**CO** = carbon monoxide  
**NO<sub>x</sub>** = nitrogen oxides  
**PM<sub>10</sub>** = small particulate matter which measures no more than 10 microns in diameter  
**PM<sub>2.5</sub>** = fine particulate matter which measures no more than 2.5 microns in diameter  
**SO<sub>x</sub>** = sulfur oxides

## Ozone Precursor Emissions from Vehicle Trips

While the project would result in a net reduction in air pollutant emissions, project emissions alone would fall below Ventura County Air Pollution Control District (VCAPCD) significance thresholds of 25 pounds/day for ozone precursors (NO<sub>x</sub> and ROG). Project daily ROG emissions would be 0.05 pounds per day and NO<sub>x</sub> emissions would be 0.02 pounds per day of ROG emissions, representing less than 0.2% of the threshold levels.

*Thresholds are from VCAPCD. 2003 Ventura County Air Quality Assessment Guidelines. Available at [www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf](http://www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf)*

| Daily Emissions of Ozone Precursors (pounds/day) |      |                 |
|--|------|-----------------|
|  | ROG  | NO <sub>x</sub> |
| Proposed Storage Facility Vehicle Trips          | 0.05 | 0.02            |
| <i>VCAPCD Threshold</i>                          | 25   | 25              |
| Percent of Threshold                             | 0.2% | 0.1%            |

## Cold Start Vehicle Emissions

Cold start emissions are the extra emissions that occur when a vehicle is starting because the emissions-control equipment has not yet reached its optimal operating temperature.

| Daily Emissions (lb/day)                     |        |        |                 |                  |                   |
|--|--------|--------|-----------------|------------------|-------------------|
|  | ROG    | CO     | NO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Proposed Storage Facility Vehicles           | 0.003  | 0.072  | 0.003           | 0.001            | <0.01             |
| Existing Project Vicinity Vehicles           | 225    | 2,819  | 333             | 3                | 3                 |
| Percent of Cold Start Emissions in Vicinity* | 0.001% | 0.003% | 0.0008%         | 0.02%            | 0.02%             |

\*Project vicinity includes registered vehicles in Port Hueneme and parts of Oxnard (zip codes 93030, 93033, 93035).