

# City of Puyallup Traffic Scoping Worksheet

## PROJECT INFORMATION

Project Title: Coastal Pacific Food Distribution Date: 8/11/2023

Applicant Name: Richard Julien Telephone Number: (541)-506-6300

Project Description: 43,347 s.f. Cold Storage Warehouse Addition Year of Occupancy: N/A

Project Location: Parcel #: 0420215009 Parcel Size: 5.00-acres

Proposed Number of Access Point(s): 1 Existing Number of Access Point(s): 1

Land Use	Quantity (dwelling units/size)	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s):					
Proposed Use(s): 43,347 square foot High-Cube Cold Storage Warehouse					
Cold Storage Warehouse	43.347 ksf	157	91.9	4.8	5.2
<b>Net New Trips</b>			<b>91.9</b>	<b>4.8</b>	<b>5.2</b>
<b>Traffic Impact Fees:</b> Net New PM Peak Hour Trips x \$4,500 = \$23,400					

- \* The project trips shall be rounded to the nearest tenth.
- \* The project trips shall be estimated using the ITE's *Trip Generation*, 11<sup>th</sup> Edition.
- \* Trip generation regression equations shall be used when the R<sup>2</sup> value is 0.70 or greater.
- \* For land uses that do not exist within the ITE's *Trip Generation*, actual field data shall be collected from three local facilities that have similar characteristics to the proposal.
- \* For single-family units and offices and specialty retail smaller than 30,000 SF, use ITE's *Trip Generation*, 11<sup>th</sup> Edition, average rate.

Identify all intersections that will be affected by 25 new project peak hour trips or more:

1. None 4. \_\_\_\_\_

2. \_\_\_\_\_ 5. \_\_\_\_\_

Prepared by: Traffic Engineer: Kyle Young, P.E. Telephone Number: 253-770-1401

Address: 1011 E Main Suite 453, Puyallup, WA 98371 kyoung@heathtraffic.com

**Office Use Only**

TIS  TAS  TAIS  No Further Work Required

*Checklist (Please make sure you have included the following information):*

- Completed Worksheet
- Attach Site Plan
- Attach Trip Assignment
- Attach Trip Distribution
- Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to [broberts@puyallupwa.gov](mailto:broberts@puyallupwa.gov)

Date: August 11, 2023

To: Richard Julien  
The Whiting-Turner Contracting Company  
(541)-506-6300

From: Kyle Young, PE

Subject: Coastal Pacific Food Distribution - Trip Generation Memo

## **Project Summary**

Coastal Pacific Food Distribution is a cold-food distributor that has become the second largest distributor of food for the US Military and other government agencies since 1986. The project proposes to add 43,347 square feet of storage space to their existing 19,873 square foot cold storage warehouse facility within the city of Puyallup. The purpose of the expansion is to provide more storage space. The increased square footage will not include any additional office space. The subject site comprises 5.0-acres within tax parcel #: 0420215009. Access to the site is provided via the existing connection to the southern leg of the signalized intersection on Valley Avenue NW across from the Fred Meyer Distribution Center. Existing access will remain as is. Figure 1 below provides an aerial vicinity of the subject site. Figure 2 depicts a conceptual site plan which shows approximately 87 parking stalls.

**Figure 1: Aerial Vicinity**





## **Trip Generation**

Trip generation is defined as the number of vehicle movements that enter or exit the respective project site during a designated time period such as the PM peak hour or an entire day. The magnitude of the anticipated vehicle trip generation for the proposed project was derived from the Institute of Transportation Engineers (ITE) publication, *Trip Generation*, 11th Edition. The proposed land use code for the site is defined under ITE's Land Use Code (LUC) 157 High-Cube Cold Storage Warehouse.

The ITE description for LUC 157, High-Cube Cold Storage Warehouse, was determined to best describe existing and proposed site operations. The description of this land use includes the following, "A high-cube cold store warehouse has substantial temperature-controlled environments for frozen food and other perishable products." As mentioned, Coastal Pacific Food Distribution is the second largest distributor of food for the US Military and is adding additional cold storage space to serve that purpose.

Square footage was used as the input variable with ITE average rates to determine trip ends. Table 1 below summarizes anticipated vehicular movements for the average weekday daily trips (AWDT) and the AM and PM peak hours.

**Table 1: Project Trip Generation**

Land Use	Square Footage	AWDT	AM Peak-Hour Trips			Peak-Hour Trips		
			In	Out	Total	In	Out	Total
Cold Storage Warehouse (LUC 157)	43.347 ksf	91.9	3.6	1.2	4.8	1.3	3.9	5.2

Based on ITE data, the proposed addition is estimated to generate approximately 92 new daily weekday trips with 5 new trips occurring in the AM peak and 5 new trips in the PM peak hour. As mentioned in the Project Summary, the project is only proposing new cold storage space with no increase in office space. Based on this, the number of new trips is expected to be minor as the ITE data suggests. This is further supported with the proposed addition not adding any new parking stalls.

Figure 3 on the following page depicts estimated PM peak hour trip distribution and assignment to and from the site.



## **Conclusion**

The Coastal Pacific Food Distribution project proposes to add 43,347 square feet of building space to their existing 19,873 square foot cold storage warehouse. The increase in size will add cold storage space with the internal office space remaining the same. The project is located in the city of Puyallup on tax parcel #: 0420215009 and has a site address of 322 Valley Avenue NW. Access will continue unchanged to the existing signal on Valley Avenue NW across from the Fred Meyer Distribution Center. Based on ITE data, the proposed project is estimated to generate 92 new average weekday daily trips with 5 new AM peak hour trips and 5 new PM peak hour trips.

Please call if you require additional information.

Kyle Young, PE

# High-Cube Cold Storage Warehouse (157)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA  
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 5

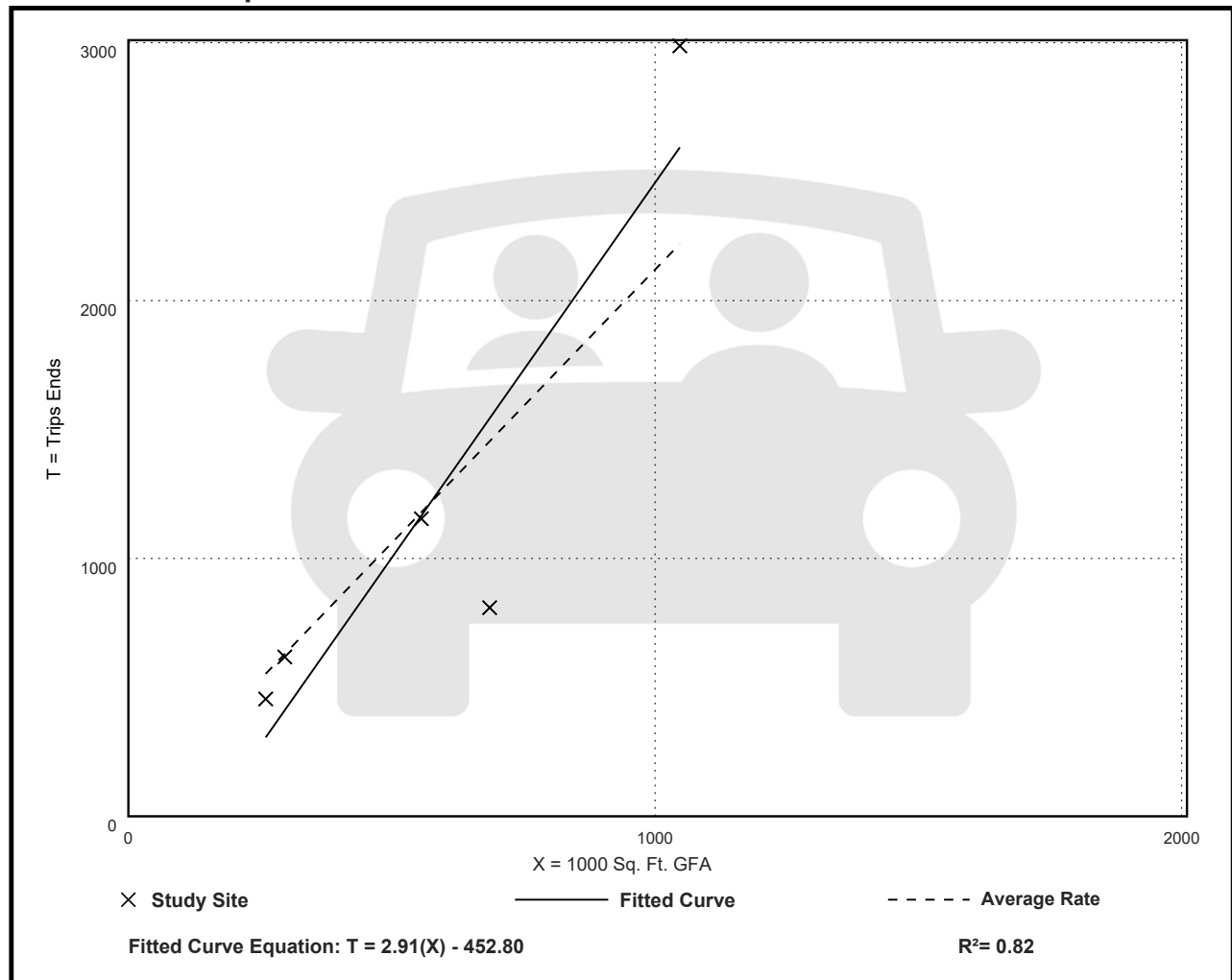
Avg. 1000 Sq. Ft. GFA: 569

Directional Distribution: 50% entering, 50% exiting

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.12	1.18 - 2.85	0.73

## Data Plot and Equation



# High-Cube Cold Storage Warehouse (157)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 5

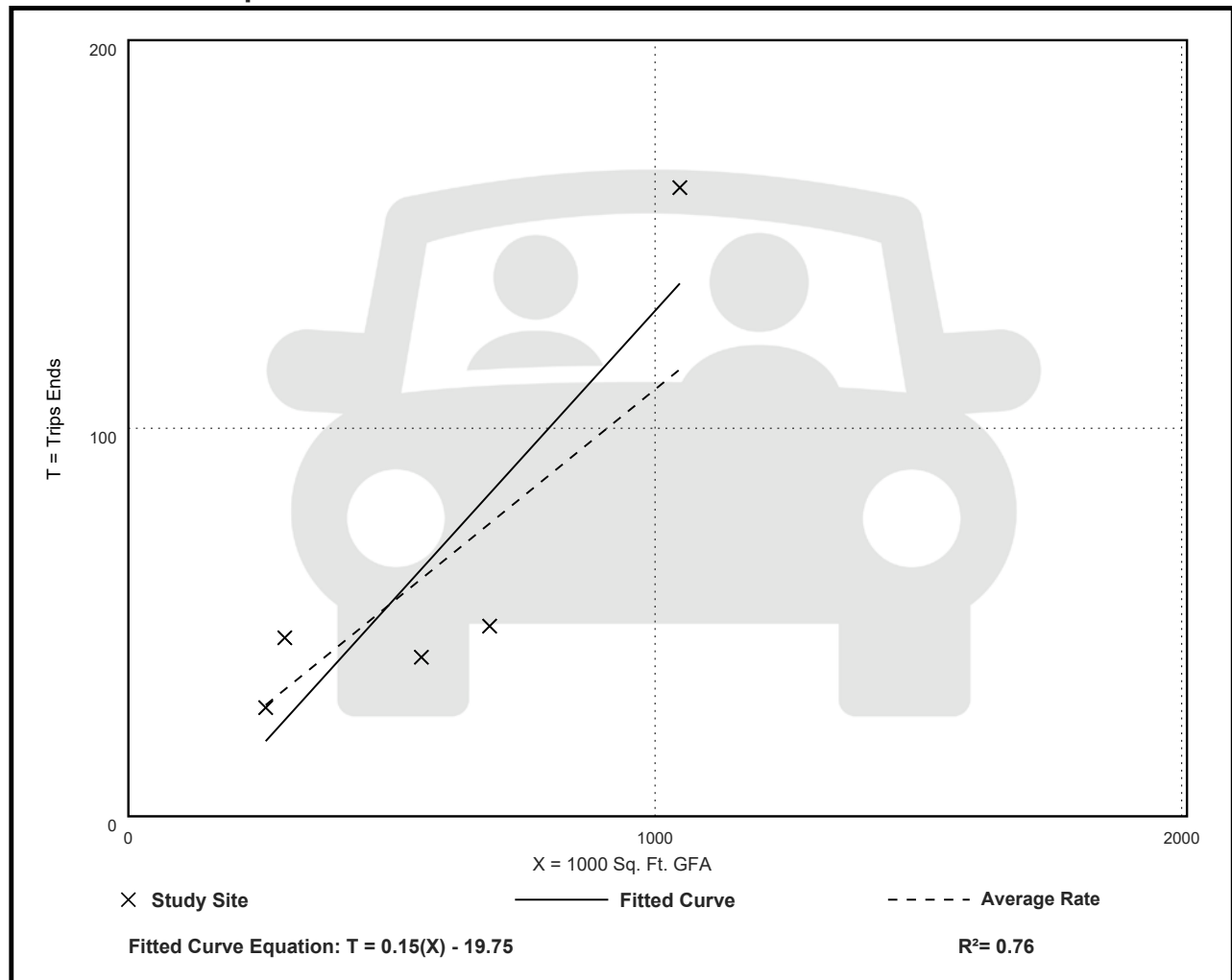
Avg. 1000 Sq. Ft. GFA: 569

Directional Distribution: Not Available

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.11	0.07 - 0.15	0.04

## Data Plot and Equation



# High-Cube Cold Storage Warehouse (157)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 5

Avg. 1000 Sq. Ft. GFA: 569

Directional Distribution: Not Available

## Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.12	0.07 - 0.16	0.04

## Data Plot and Equation

