Draft Report

Nexus-Based Affordable Housing Fee Analysis for Rental Housing





Prepared for:

City of Pleasanton

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EXECUTIVE SUMMARY

Economic & Planning Systems, Inc. (EPS) was retained by the City of Pleasanton to conduct a nexus study analyzing the impact that development of market-rate rental housing has on the demand for below-market-rate housing and, based on the results, to determine the defensible nexus-based fee that could be charged to market-rate development.

The technical approach used herein quantifies the impacts that the introduction of market-rate rental apartments have on the local economy and the demand for additional affordable housing. As new households are added to the community, local employment also will grow to provide the goods and services required by the new households. To the extent that these new jobs do not pay adequate wages for the employees to afford market-rate housing in the community, the new households' spending is creating a need for affordable housing. A nexus-based affordable housing fee is therefore based on the impact of the new market-rate homes on the demand for affordable housing. The fee calculated in this study represents the maximum fee that may be charged to new market-rate housing units to mitigate their impacts on the affordable housing supply. Such fees then may be used by the City to subsidize the production of new affordable units for lower-income households not accommodated by market-rate projects.

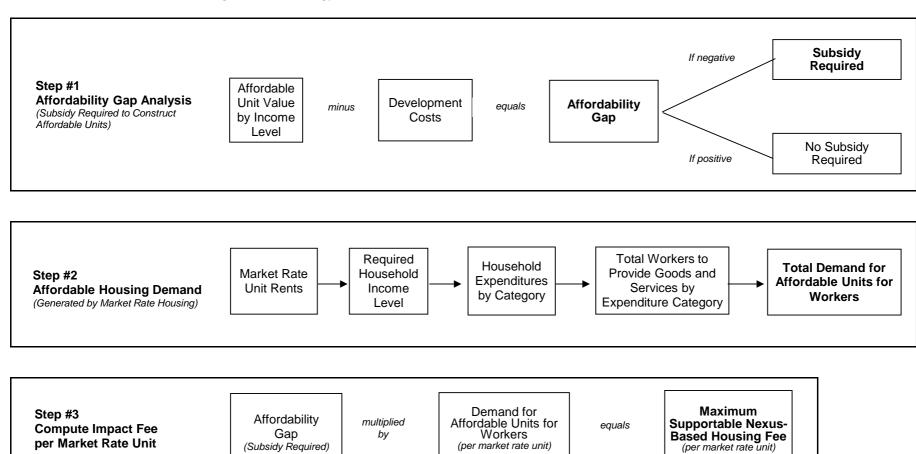
Calculating the impact of market-rate development in the City on affordable housing needs, and the fees needed to mitigate those impacts, involves three main analytical steps:

- **Step #1**. Estimate the typical subsidy required to construct units affordable at various income levels (the "affordability gap").
- **Step #2.** Determine the market-rate households' demand for goods and services, the jobs created by that demand, and the affordable housing needs of workers in those jobs.
- Step #3. Combine the affordability gap with the affordable housing demand projections to compute the maximum supportable nexus-based affordable housing fees per market-rate unit.

These technical steps are illustrated in **Figure 1** and detailed in the body of this Report and the attached Technical Appendices. The findings regarding each of these steps are presented below.

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Figure 1 Illustration of Nexus-Based Housing Fee Methodology



(per market rate unit)

per Market Rate Unit

(Subsidy Required)

1. The costs to construct housing units affordable to many households exceed those units' values based on the rents or prices that the households can afford to pay. The estimated subsidy required to construct affordable housing units in Pleasanton range from roughly \$57,855 for a Low Income household earning up to 80 percent of AMI to \$163,946 for a Very Low Income household earning up to 50 percent of AMI. Households with median and above-median incomes do not appear to require subsidies, as affordable prices for such households can support the costs of construction.

An "affordability gap analysis" evaluates whether or not the costs to construct affordable units exceed the values of units that are affordable to lower- and moderate-income households. For each affordable housing income level – households with incomes at 50, 60, 80, 100, and 120 percent of Area Median Income (AMI) – this analysis estimates the subsidy required to construct affordable housing units.

The affordability gap analysis assumes that the average affordable unit for all income levels will be a 2-bedroom unit in a multifamily development with an average density of 30 dwelling units per acre. The estimated costs to construct the prototypical affordable unit are based on recent Bay Area development projects and transactions, as well as other development cost data sources. The costs of land acquisition are included in these development cost calculations.

A household's ability to pay is estimated based on standard percentages of income available for housing costs at each household income level. Income available for housing costs is then converted into a monthly affordable rent and a capitalized unit value or an affordable mortgage payment and supportable home price. This unit value is then compared to the costs of development to determine the subsidy, if any, required to make the unit affordable to each income level.

2. The demand for affordable housing generated by the expenditures of new households in Pleasanton increases along with the market-rate rent price (and related renter income). For example, a 1-bedroom unit that rents for \$1,650 per month is estimated to create demand for 0.116 affordable housing units, while a 3-bedroom unit that rents for \$2,500 per month creates demand for 0.162 affordable units.

Any justified nexus-based fee is based on the total demand for affordable housing units generated by construction of market-rate units. The link (or nexus) between market-rate housing and increased demand for affordable housing is that residents of market-rate units demand goods and services that rely on wage earners (for example, retail sales clerks) who typically cannot afford market-rate housing and thus require affordable housing.

Because more expensive housing units require renters to have higher incomes, and higher income households create more jobs through their spending, the nexus impacts and thus the justified fees for rental units vary according to the rental price range of the market-rate units. Typically, larger apartments (i.e., more bedrooms) command higher rents, so their occupants are required to have higher household incomes than renters of smaller units. Thus, larger units create more jobs as a result of their occupants' spending. Consequently, nexus impacts and the justified fees for market-rate rental apartments vary by unit size.

This analysis evaluates the demand for affordable housing generated by a range of for-rent unit sizes. For each unit size, the demand-based nexus fee calculation involves the following steps:

- A. Market-Rate Household Income Levels. The expected rental price of the unit is based on market data regarding the actual asking rents of apartments of various sizes. The required income levels of households occupying new market-rate housing are derived based on the rental rate, assuming standard housing cost expenses as a proportion of overall household income. For example, a typical household renting a market-rate two-bedroom unit for around \$2,100 per month would have an income of roughly \$89,000, if they spent 30 percent of their income on housing costs (rent and utilities).
- **B.** Household Expenditures. Based on the household income computed in Step A, Consumer Expenditure Survey data is used to evaluate the typical spending patterns of the household. This analysis provides an estimate of how much the household spends on specific categories of expenditures, such as "Food at Home." As the households' income increases along with the price and size of the market-rate units, the total spending on goods and services also increases. The Consumer Expenditure Survey also indicates that these relationships are not linear (e.g., a household with twice the income does not necessarily spend twice as much on food).
- C. Job Creation and Worker Households. Having estimated the households' spending on various items, that spending is then converted into an estimation of jobs created. For each expenditure category, data regarding average worker wages and the ratio between gross business receipts and wages are used to translate these household expenditures into the total number of private-sector workers. For selected public-sector jobs that typically grow in proportion to the local population size (e.g., teachers), the demand for new workers is estimated by relating current levels of employment in such categories to the current population and applying this ratio to future development. Because each new worker does not represent an independent household (Pleasanton has an average of 1.69 workers per working household), the total number of new households created is somewhat less than the number of new jobs created. EPS has further adjusted the household formation rates to reflect the fact that a certain proportion of workers will not form their own households, particularly those of younger ages.¹
- D. Worker Households by Income Category. Each worker household generated is assigned to an income category—represented as a proportion of AMI ranging from 50 to 120 percent—based on its estimated gross wages. This provides the total number of households generated at each income level by construction of market-rate units at various sizes and price points. The results indicate that residents of smaller, lower-priced units generate fewer worker households requiring affordable housing than do residents of larger, higher-priced units.

¹ BLS data indicates that 10.1% of retail/restaurant workers are age 16-19, but an average of only 3.2% of workers overall (this factor is applied to other industries). EPS has assumed that such young workers do not form their own households.

These steps of the nexus-based fee calculation provide the total number of income-qualified workers required to meet the needs for goods and services generated by market-rate rental housing. The number of workers servicing market-rate housing (at each apartment unit size) is then converted to total income qualified households and each such household is assumed to require one housing unit.

3. This analysis calculates the fees that could be charged to fully mitigate the impact that new market-rate housing has on Pleasanton's affordable housing demand at various representative unit sizes. These fees could range from \$12,639 for studio apartments to \$18,936 for 3-bedroom apartments.

The nexus fee is calculated by applying the number of affordable units needed by income qualified households to the affordability gap for each housing income category. This calculation is made for several different apartment sizes. **Table 1** summarizes the maximum nexus-based fees calculated for representative rental unit sizes. The City may also consider whether to allow developers to provide affordable apartment units within their projects, rather than paying the nexus-based fee. **Table 1** illustrates the proportions of affordable units that correspond to the fee calculation and demands created by the market-rate units. For instance, a project offering two-bedroom units would effectively mitigate the demand being created by the market-rate units if it provided 0.136 affordable units for each market-rate unit.

Table 1
Summary of Housing Impact Fees or Unit Equivalents per Market-Rate Unit
City of Pleasanton Housing Impact Fee, EPS #121115

Market-Rate	Maximum	Max. Fee		Affordable Units G	enerated/100 M	larket-Rate Uni	t <u>s</u>
Unit Size	Impact Fee	per Sq. Ft. [1]	Total	Very Low (50%)	Low (60%)	Low (80%)	Med (100%)
Studio	\$12,639	\$24.07	10.9	4.9	2.7	2.4	1.0
1 Bedroom	\$13,508	\$19.03	11.6	5.3	2.8	2.5	1.0
2 Bedroom	\$15,694	\$15.02	13.6	6.2	3.3	2.9	1.2
3 Bedroom	\$18,936	\$14.97	16.2	7.4	4.0	3.4	1.4

^[1] Assumes unit square footages as shown on Table 4.

Source: Economic & Planning Systems, Inc.

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1. AFFORDABILITY GAP ANALYSIS

For any nexus-based affordable housing fee calculation, it is necessary to estimate the subsidy required to construct affordable housing units. **Table 2** shows the subsidy needed to produce multifamily for-sale housing that is affordable to low- through moderate-income households (60 through 120 percent of AMI), while **Table 3** calculates the subsidies for rental housing affordable to very low- through moderate-income households (50 through 120 percent of AMI).

Product Type

According to City staff, at this time in Pleasanton the housing subsidies available are most efficiently used to develop multifamily affordable units rather than single family units. As a result, the subsidy required to construct affordable units of this multifamily product type is used to determine the impact fee that applies to all types of market-rate apartments. EPS has assumed that these affordable multifamily projects will have an average density of 30 units per acre and will adhere to Pleasanton Code that requires two parking spaces per unit, assumed to be surface parking.

In order to determine the average household size of future affordable housing units, EPS used two estimates from the 2011 US Census American Community Survey. The Census indicates that the average household size is 2.91 people and the average family size in Pleasanton is 3.21 people. Each of these figures rounds to an average of three people per unit, so EPS uses this assumption to determine the applicable income limits for the new units.

California State law (California Health and Safety Code Section 50052.5) assumes that a 2-bedroom unit is occupied by a 3-person household, and this assumption is used in this analysis. Typically, a 2-bedroom unit in the Bay Area has a gross size of about 1,100 square feet (accounting for shared lobbies, hallways, etc.) and a net size of 950 square feet.

This analysis estimates the subsidy that would be required to build for-sale and for-rent housing for the lower-income worker households. The subsequent impact fee analysis would assume that the most cost-efficient tenure type would be used; if for-sale units can be built for less subsidy than units offered for rent, the analysis would assume new affordable units would be for-sale. As shown on **Tables 2 and 3** and discussed below, for-rent units are estimated to require a lower subsidy under present market conditions. In addition to representing cost savings, and thus a minimization of the impact fee, the reliance on rental housing may be more easily implemented and sustained, as many households at lower incomes will not have adequate wealth reserves for down payments on homeownership units, and may have further difficulty absorbing the ongoing costs of homeownership (taxes, repairs, etc.) that they can effectively avoid by renting their homes rather than buying.

Table 2
Financing Gap Analysis -- For-Sale Product Type
City of Pleasanton Housing Impact Fee, EPS #121115

	2-Story Multifamily With Surface Parking					
	Low	Low	Median	Moderate		
	Income	Income	Income	Income		
Item	(60% AMI)	(80% AMI)	(100% AMI)	(120% AMI)		
Development Program Assumptions						
Density/Acre	30	30	30	30		
Average Gross Unit Size	1,100	1,100	1,100	1,100		
Average Net Unit Size	950	950	950	950		
Average Number of Bedrooms	2	2	2	2		
Average Number of Persons per Household	3	3	3	3		
Parking Spaces/Unit [1]	2.00	2.00	2.00	2.00		
Cost Assumptions						
Land/Acre [2]	\$1,270,166	\$1,270,166	\$1,270,166	\$1,270,166		
Land/Unit	\$42,339	\$42,339	\$42,339	\$42,339		
Direct Construction Costs/Gross SF [3]	\$158	\$158	\$158	\$158		
Direct Construction Costs/Unit	\$173,800	\$173,800	\$173,800	\$173,800		
Parking Construction Costs/Space	\$3,000	\$3,000	\$3,000	\$3,000		
Parking Construction Costs/Unit	\$6,000	\$6,000	\$6,000	\$6,000		
Subtotal, Direct Costs/Unit	\$179,800	\$179,800	\$179,800	\$179,800		
Indirect Costs as a % of Direct Costs [4]	33%	33%	33%	33%		
Indirect Costs/Unit	\$59,334	\$59,334	\$59,334	\$59,334		
Developer Profit Margin (% of all costs)	8%	8%	8%	8%		
Developer Profit	\$22,518	\$22,518	\$22,518	\$22,518		
Total Cost/Unit [5]	\$303,991	\$303,991	\$303,991	\$303,991		
Maximum Supported Home Price						
Household Income [6]	\$48,180	\$59,600	\$84,150	\$101,000		
Income Available for Housing Costs/Year [7]	\$14,454	\$17,880	\$25,245	\$30,300		
Less Annual HOA Fees [8]	\$3,571	\$3,571	\$3,571	\$3,571		
Less Property Taxes (1.15%) [9]	\$3,496	\$3,496	\$3,496	\$3,496		
Less Annual Insurance [8]	\$215	\$215	\$215	\$215		
Income Available for Mortgage	\$7,172	\$10,598	\$17,963	\$23,018		
Mortgage Interest Rate [10]	4.5%	4.5%	4.5%	4.5%		
Mortgage Repayment Period (years)	30	30	30	30		
Down Payment [11]	\$6,149	\$9,086	\$15,400	\$19,734		
Total Supportable Home Price	\$122,974	\$181,717	\$307,999	\$394,673		
Financing Gap	\$181,016	\$122,273	\$0	\$0		

^[1] Reflects an average as apartments with up to 2 bedrooms are required to provide a minimum of 2 spaces for the first 4 units and 1.5 spaces for each additional unit. In addition, visitor parking ratio of 1 space for each 7 units is also required.

Sources: Alameda County housing developers; Department of Housing and Urban Development; Economic & Planning Systems, Inc.

^[2] The land costs represented are the average shown in Appendix A.

^[3] Includes costs for labor and materials.

^[4] Includes costs for architecture and engineering; entitlement and fees; project management, marketing, commissions, and general administration; financing and charges; insurance; and

^[5] Direct construction costs based upon EPS findings in Pleasanton. Includes costs for labor and materials. Assumes Direct Construction Costs for rentals are \$10/SF less than for-sale

^[6] Based on HCD 2013 income limits for Alameda County.

^[7] Assumes housing costs to be 30% of gross household income for low-income and moderate-income households.

^[8] Homeowner association fees and insurance costs from Redfin.com based on recent for-sale multifamily units in and around the City of Pleasanton.

^[9] Exceeds basic 1.00% tax rate to include allowance for special assessment districts. Reflective of current tax rates in City of Pleasanton.

^[10] Interest rates slightly exceed current market for 30-year fixed mortgages, but are well below historic averages and reflect blend of first- and second-mortgage rates.

^[11] Assumes a 5% down payment.

Table 3
Financing Gap Analysis -- Rental Product Type
City of Pleasanton Housing Impact Fee, EPS #121115

		2-Story Mult	ifamily With Surface	Parking	
item	Very Low Income (50% AMI)	Low Income (60% AMI)	Low Income (80% AMI)	Median Income (100% AMI)	Moderate Income (120% AMI)
Development Program Assumptions					
Density/Acre Average Gross Unit Size Average Net Unit Size Average Number of Bedrooms Average Number of Persons per Household Parking Spaces/Unit [1]	30 1,100 950 2 3 2.00	30 1,100 950 2 3 2.00	30 1,100 950 2 3 2.00	30 1,100 950 2 3 2.00	30 1,100 950 2 3 2.00
Cost Assumptions					
Land/Acre [2] Land/Unit	\$1,270,166 \$42,339	\$1,270,166 \$42,339	\$1,270,166 \$42,339	\$1,270,166 \$42,339	\$1,270,166 \$42,339
Direct Construction Costs/Gross SF [3] Direct Construction Costs/Unit Parking Construction Costs/Space Parking Construction Costs/Unit Subtotal, Direct Costs/Unit	\$148 \$162,800 \$3,000 \$6,000 \$168,800	\$148 \$162,800 \$3,000 \$6,000 \$168,800	\$148 \$162,800 \$3,000 \$6,000 \$168,800	\$148 \$162,800 \$3,000 \$6,000 \$168,800	\$148 \$162,800 \$3,000 \$6,000 \$168,800
Indirect Costs as a % of Direct Costs [4] Indirect Costs/Unit	35% \$59,080	35% \$59,080	35% \$59,080	35% \$59,080	35% \$59,080
Total Cost/Unit	\$270,219	\$270,219	\$270,219	\$270,219	\$270,219
Maximum Supported Unit Value					
Household Income [5] Income Available for Housing Costs/Year [6] Operating Expenses per Unit/Year [7] Net Operating Income Capitalization Rate [8]	\$40,150 \$12,045 \$6,200 \$5,845 5.5%	\$48,180 \$14,454 \$6,200 \$8,254 5.5%	\$59,600 \$17,880 \$6,200 \$11,680 5.5%	\$84,150 \$25,245 \$9,308 \$15,937 5.5%	\$101,000 \$30,300 \$9,308 \$20,992 5.5%
Total Supportable Unit Value	\$106,273	\$150,073	\$212,364	\$289,772	\$381,682
Financing Gap	\$163,946	\$120,146	\$57,855	\$0	\$0

^[1] Reflects an average as apartments with up to 2 bedrooms are required to provide a minimum of 2 spaces for the first 4 units and 1.5 spaces for each additional unit. In addition, visitor parking ratio of 1 space for each 7 units is also required.

Sources: Alameda County housing developers; Department of Housing and Urban Development; Economic & Planning Systems, Inc.

^[2] The land costs rate based on recent multifamily land transactions in Pleasanton as shown in Appendix A.

^[3] Direct construction costs based upon EPS findings in Pleasanton. Includes costs for labor and materials. Assumes Direct Construction Costs for rentals are \$10/SF less than for-sale

^[4] Includes costs for architecture and engineering; entitlement and fees; project management, marketing, commissions, and general administration; financing and charges; insurance; and

^[5] Based on HCD 2013 income limits for Alameda County.

^[6] Assumes housing costs to be 30% of gross household income.

^[7] Operating expenses based upon previous findings in other Bay Area jurisdictions, and include costs of tenants' utilities. Units for median- and moderate-income households are assumed to be built as for-profit projects and thus subject to property tax.

^[8] Reflects average investor interest for apartment capitalization rates from RealShare/Jones Lang LaSalle's Apartments Outlook 2012 Survey.

Development Cost Assumptions

Affordable housing development costs include land costs, direct costs (e.g., labor and materials), and indirect or "soft" costs (e.g., architecture, entitlement, marketing, etc.). For rental projects, operating costs also must be incorporated into the analysis. Data from recent East Bay developments and recent Pleasanton land transactions have been combined with EPS's information from various market-rate and affordable housing developers to estimate appropriate development cost assumptions for use in Pleasanton. These assumptions are shown on **Tables 2** and **3**.

EPS has investigated the listed prices of multifamily residential land in Pleasanton's boundaries and urban growth limit, as shown on **Appendix Table A-1**. EPS has further estimated the costs of direct and indirect development costs for multifamily housing based on reviews of recent Bay Area project pro formas, with adjustments for location factors. As shown on **Tables 2** and **3**, the total costs for for-sale housing development are slightly higher than for rental apartments due to higher levels of finish and liability insurance required for condominium development.

Revenue Assumptions

To calculate the values of the affordable units, assumptions must be made regarding the applicable income level (moderate, median, and low) and the percentage of income spent on housing costs. In addition, translating these assumptions into unit prices and values requires estimates of operating expenses, capital reserves, and capitalization rates. The following assumptions were used in these calculations:

- Income Levels— This analysis estimates the subsidy required to produce units for households earning 50, 60, 80, 100, and 120 percent of Area Median Income for a three-person household. In 2013, AMI in Alameda County for these households was \$84,150, as shown in the California Department of Housing and Community Development's (HCD's) income limits chart.
- Percentage of Gross Household Income Available for Housing Costs—HCD standards on
 overpaying for rent indicate that households earning less than 80 percent of AMI should pay
 no more than 30 percent of their gross income on housing costs. For this analysis, EPS has
 assumed that all households shall spend 30 percent of their gross income on housing costs,
 including rent in rental projects or mortgage payments, homeowner association fees,
 insurance, and property taxes for for-sale units. A sample of homeowner association fees in
 the Pleasanton area is shown on Appendix Table A-2, and the average fee is incorporated
 into these calculations.
- Operating Costs for Rental Units—The analysis assumes that apartment operators incur annual operating costs of \$6,200 per unit, which include the cost of utilities, for units affordable at 80 percent of AMI or below. EPS has assumed the units for median income households and above would have similar operating costs but would be built by for-profit builders and thus also subject to property taxes.

Affordability Gap Results

Table 2 shows the estimated subsidies for construction of affordable for-sale units for low and moderate-income households. As shown, a unit for a household at 60 percent of AMI is expected to require a subsidy of roughly \$180,000, and units for higher-income households require lower subsidies (or none, for units at 100 and 120 percent of AMI). **Table 3** shows the subsidies for construction of for-rent apartments for households at various income levels. For any equivalent income level (e.g., 60 percent of AMI), a comparison of **Tables 2** and **3** indicates the affordability gap for low-income rental units is estimated to be less than if the same unit were offered for-sale. This is generally due to slightly higher development costs for for-sale units, including the need for immediate rather than longer-term profit returns.

These affordability gaps then were used to calculate the justified nexus-based fees by multiplying this required subsidy by the number of units required to house workers providing goods and services to new market-rate housing development. This methodology is discussed in more detail in the following section.

2. Demand-Based Nexus Fee Calculation

The maximum supportable nexus-based fees are based on both the affordability gap, calculated in the previous section, and the estimated impact that new market-rate rental units have on the need for affordable units, as reflected in the number of income-qualified local workers required to support the residents of market-rate apartments and the total subsidy required to construct housing for those workers. This approach is based on the following logic: (a) residents of market-rate housing have disposable incomes and require a variety of goods and services (including private sector goods and services and government services); (b) the provision of those goods and services will require some workers who make moderate or lower incomes and cannot afford market-rate housing; and (c) fees charged to market-rate projects can mitigate the impact of those projects on the increased need for affordable housing.

Market-Rate Household Income Levels

Households with larger incomes typically spend more on goods and services, therefore creating additional lower income jobs, which in turn generate a greater demand for affordable housing. To assess the impact that market-rate rental units have on the need for affordable housing, EPS estimated the minimum income required to rent a market-rate apartment at various bedroom sizes, as shown in **Table 4**.

Average rents for various apartment sizes (studio, and 1, 2, and 3 bedrooms) are based on a survey of rental rates for five market-rate multifamily projects recently developed in Pleasanton. New apartment rents are significantly higher, on average, than rental rates for existing rental housing stock, both because the newer units are of better-than-average quality and because the higher rents are required to cover the costs of construction. The rents for the most recent apartment projects were used, rather than average rents for all apartments, because these newer apartments best represent the rents that can be expected with new market-rate apartment development. Assuming utility costs for each unit size based on the City of Pleasanton Housing and Redevelopment Department Allowances for Tenant Furnished Utilities and Other Services, the minimum household income needed to rent each unit is then computed, predicated on the assumption that a household will spend 30 percent of their income on housing costs (rent and utility payments). As shown, required household incomes range from approximately \$64,000 for a studio apartment to roughly \$106,000 for a 3-bedroom apartment.

Household Expenditures and Job Creation by Income Level

Having established the income requirements for renting apartments of various sizes, the fee calculation then requires an analysis of the household spending patterns at those required income levels. Consistent with nexus fee calculations and impact analysis for schools, parks, roads, etc., this analysis also assumes that all households renting new market-rate units in Pleasanton are "net new" households to the City. To assume otherwise—for instance,

Table 4
Required Income by Unit Type- Market-Rate Rental Apartments
City of Pleasanton Housing Impact Fee, EPS #121115

				Required In	come by Unit Typ	е
Apartment Size	Avg. Sq. Ft. [1]	Average Rent [1]	Utility Allowance [2]	Subtotal Rent and Utilities	Annual Rent and Utility Expenditures	Minimum Annual Household Income Required [3]
Formula		А	В	C = A + B	D = C * 12	E = D / 30%
Studio	525	\$1,500	\$93	\$1,593	\$19,116	\$63,720
1-Bedroom	710	\$1,650	\$111	\$1,761	\$21,132	\$70,440
2-Bedroom	1,045	\$2,100	\$126	\$2,226	\$26,712	\$89,040
3-Bedroom	1,265	\$2,500	\$161	\$2,661	\$31,932	\$106,440

^[1] Based on average rents and sizes for new rental project in each unit size category as determined by a survey of the City's most recently developed multifamily projects - Archstone Hacienda, The Promonade, Springhouse Apartments, Stoneridge Apartments and The Kensington.

Sources: City of Pleasanton; Real Facts; Trulia; Housing Authority of the County of Alameda; Economic & Planning Systems, Inc.

^[2] Based on 2012 Housing Authority of the County of Alameda Utility Allowance Table assuming a low-rise garden apartment and natural gas for heating and cooking.

^[3] Assumes that a maximum of 30% of annual household income is dedicated to utility and rent expenditures.

that only those buyers or renters of new housing units relocating from outside Pleasanton should be counted in the impact analysis—would require assuming that the homes left by those households relocating *within* Pleasanton would be demolished or left vacant in perpetuity. This would only be the case were the City experiencing a significant loss of population and housing inventory, as has occurred, for instance, in Detroit. Pleasanton has not experienced such declines.

The Consumer Expenditure Survey from the United States Bureau of Labor Statistics provides data for households at a variety of income levels, detailing the amounts that typical households spend on things like "Food at Home," "Apparel and Services," and "Vehicle Maintenance and Repairs." Interestingly, household expenditures by category are not uniformly proportional to household income levels. For example, households earning around \$64,000 (adequate to rent a studio apartment) spend roughly 11.9 percent of their income on food and drink (at home and eating out), while households earning \$106,000 who can afford to rent a three-bedroom apartment spend only about 9.8 percent of their income on food and drink. Because of these and other differences in proportionate spending, the expenditure profile varies at different income levels.

The renter household's typical expenditures were converted to the number of jobs created by their spending. The first step in this process is to determine how much of an industry's gross receipts are used to pay wages and employee compensation. EPS relied on data from the Economic Census, ² which provides employment, gross sales, and payroll data by industry for Alameda County. In certain instances, Alameda County data was not available for every Economic Census industry—in those cases, EPS relied on statewide Economic Census data for that industry.

To link the Economic Census data and the Consumer Expenditure Survey data, EPS made determinations as to the industries involved with expenditures in various categories. For example, purchases in the Consumer Expenditure Survey's "Food at Home" category would likely involve the Economic Census's "Food & Beverage Stores" industry, where gross receipts were more than eight times the employees' wages. By contrast, purchases in the Consumer Expenditure Survey's "Entertainment Fees and Admissions" category were attributed to the Economic Census' "Arts, Entertainment, and Recreation" industry, where gross receipts are only about three times the employees' wages. Where more than one Economic Census category was attributable to a Consumer Expenditure Survey category, EPS estimated the proportion of expenditures associated with each Economic Census category.

After determining the amount of the household's expenditures that were used for employee wages, EPS estimated the number of employees those aggregate wages represent. EPS calculated the number of workers supported by that spending using the average wage per worker (also from the 2007 Economic Census). These wages ranged from a low of roughly

² Note that the Consumer Expenditure Survey data is based on information current as of 2011. The latest data available for the Economic Census was published in 2007. Because the data sources were from different years, EPS converted the 2011 expenditures to 2007 dollars using the Consumer Price Index (CPI) for the San Francisco Metropolitan Statistical Area (MSA) from the Bureau of Labor Statistics.

\$14,500 per year for workers in the food services industry to a high of more than \$86,000 average salary for legal services.

This methodology recognizes that a range of occupations and incomes exist in a given industry sector. For instance, the methodology used to generate Tables B-1 to B-4 in Appendix B distinguishes between the typical incomes of workers in different types of retail stores (e.g., "food and beverage stores" versus "general merchandise stores"), rather than assuming all retail sector workers earn the same income. However, the average wage is used for each subcategory of industry employment and represents a reasonable proxy for the range of incomes in that group: while some employees will have higher wages and require lower subsidies, others will have lower incomes and require higher subsidies. Using the average approximates the total housing subsidy needed by workers in that industry.

To calculate the number of households supported by the expenditures of market-rate housing units, EPS estimated the employees' household formation rates. Importantly, employees generated from the increase in housing units do not all form households; some employees, in the retail and food services industries in particular, are young workers and do not form households. Data from the Bureau of Labor Statistics indicates that 10.1 percent of retail/restaurant workers are age 16 to 19, but an average of only 3.2 percent of workers in the workforce overall. EPS applied these discounts to household formation by type of business to get a more accurate calculation of households formed by the employees and the average total incomes of those households.

To get the overall households' income rather than the individual workers', the wages of workers forming households were multiplied by the average of approximately 1.69 workers per working household in Pleasanton.^{3,4} This assumption implies the workers in a given household will have roughly equivalent pay per hour. While certainly there will often be some variation in wages per employee within a household, on average this assumption is reasonable because it implies comparable levels of education and training among all workers in a household. The average household incomes then are allocated to various income categories to estimate the number of affordable housing units demanded in each income category (50 through 120 percent of AMI).

A simplified example of these calculations follows:

A.	Number of Households (prototype project)	1,000
В.	Average Household Income (in the project)	\$125,000
C.	Aggregate Household Income (A x B)	\$125 million
D.	Average Income Spent on Retail (Consumer Expenditure Survey)	\$40,000
E.	Aggregate Retail Spending (A x D)	\$40 million
F.	Retail Gross Receipts: Payroll Ratio (Economic Census)	8:1

³ Workers per working household based on American Community Survey (ACS) Census data current as of August 2011. Although ACS data reported is based on historical figures, these figures can vary somewhat based on ongoing revisions to the ACS data.

⁴ The average workers per working household estimate is calculated by taking the total number of employed residents age 18 to 64 and dividing it by the number of households with earnings. This methodology seeks to provide a conservative estimate of household formation by excluding households without workers or earnings (such as those with retired persons).

G.	Estimated Retail Payroll (E ÷ F)	\$5 million
Н.	Average Retail Wage (Economic Census)	\$25,000
I.	Estimated Total Retail Jobs (G ÷ H)	200
J.	Percent Age 20+ (Bureau of Labor Statistics)	89.9%
K.	Total Retail Workers Forming Households	180
J.	Average Workers/Household (Census Data)	1.69
K.	Estimated Households Created (K ÷ J)	107
L.	Average Household Income (H x J)	\$40,750
Μ.	Income Category	Low-Income (up to 60% of AMI)

In this simplified example, 1,000 new market-rate apartments rented to households earning \$125,000 per year would create demand for 107 housing units for retail workers with household incomes below 60 percent of AMI. Actual calculations and impact distinctions by type of household expenditure for various rental unit sizes are shown in the series of tables presented in **Appendix B**.

Demand for Public-Sector Workers

In addition to the jobs created by the spending of the new market-rate households, this analysis also aims to evaluate the number of public-sector employees generated by the public service demands of new market-rate households. Rather than a comprehensive computation of public-sector employment, the analysis aims to be conservative by sampling only certain public-sector jobs (e.g., teachers and transportation providers) that are expected to grow in proportionate measure to household growth.

Data from the 2012 Occupational Employment Survey for the Oakland-Fremont-Hayward MSA was used to determine the number of these public-sector employees needed to serve new market-rate development. This data was generated by the California Employment Development Department (EDD) and provides employment and wage information for a variety of occupational categories. EPS reviewed the data and sampled occupations that were public sector-related, as shown in **Table B-5** in **Appendix B**.

Based on the ratio of the selected public-sector jobs to the total households in the MSA, EPS estimates that approximately 57 government jobs or 35 households with a government employee are required per 1,000 total households. These figures are conservative (i.e., low) because numerous types of public-sector jobs are *not* included in this analysis (such as federal postal workers, County health and human services workers, etc.). Also, please note that EPS has no basis to distinguish differences in the number of public-sector workers demanded by households based on different income levels or in different sizes of units, so the same numbers of public-sector jobs are assumed to be generated by units of all sizes and prices.

Combined Demand for Income-Qualified Workers

The total number of income-qualified households required to support the expenditure and public-sector service needs of new market-rate units were determined based on the affordable housing income limits from HCD for a 3-person household. **Table 5** summarizes the HCD income limits

Table 5
HUD Income Limits*
City of Pleasanton Housing Impact Fee, EPS #121115

Affordability Category	Percentage of County Median	2007 Max Income Threshold 3-person household	2012 Max Income Threshold 3-person household	2013 Max Income Threshold 3-person household
Very Low Income (LI) - 50%	31% - 50%	\$37,700	\$42,100	\$40,150
Low Income (LI) - 60%	51% - 60%	\$45,240	\$50,520	\$48,180
Low Income (LI) - 80%	61% - 80%	\$59,600	\$58,850	\$59,600
Median Income (Med)	81% - 100%	\$75,400	\$84,150	\$84,150
Moderate Income (Mod)	101% - 120%	\$90,480	\$101,000	\$101,000

^{*}Note: Data for Alameda County.

Sources: California Department of Housing and Community Development; Economic & Planning Systems, Inc.

used to compute the total number of income-qualified households generated by construction of market-rate units.⁵ The number of income-qualified households required to provide goods and services to new housing units is summarized on **Tables 6** through **9** and detailed in **Appendix C**.

The nexus methodology used herein computes the total number of income-qualified households generated by market-rate units and calculates the impact fee based on the estimated cost to subsidize the production of units to meet that affordable housing demand. This methodology does not suggest that all lower income service workers serving City residents will reside in the City, but it does assume that new development should mitigate for the new affordable housing demand it creates, even if some of those lower income households reside outside the City.

Fee Calculation

The affordability gap analysis quantifies the subsidy required to construct affordable housing at various income levels. Analysis of consumer expenditures that rely on lower wage workers provides an estimate of the total number of income-qualified households generated by new forrent units. Then for each category of market-rate rental units, the nexus-based fee is calculated by applying the total number of income-qualified households generated to the affordability gap computed for each affordable household income level. The analysis provides the maximum supportable nexus-based fees for new rental housing development in Pleasanton.

Tables 6 through **9** show the impact fee calculation by number of bedrooms for rental units. The total impact fees required for a representative project of 100 units is calculated by multiplying the number of affordable units required per income level by the cost of subsidizing such housing. All income-qualified households are assumed to be housed in multifamily units and the subsidies needed are calculated as the affordability gaps shown in **Table 3**. The resulting maximum impact fee for market-rate rental units ranges from \$12,639 for a studio apartment to \$18,936 for a 3-bedroom apartment.

-

⁵ To correspond to the available data regarding employee wages, the 2007 Alameda County affordable housing income limits from HCD were used to determine the number of income-qualified households based on household expenditures, while 2012 income limits were used for public-sector employment.

Table 6
Maximum Impact Fee Calculations -- Studio
City of Pleasanton Housing Impact Fee, EPS #121115

			Total In-Lieu Fee Required		
Item	Affordable Units Required Per 100 Market-Rate Units	Financing Gap per Affordable Unit [1]	Per 100 Market-Rate Units	Per Market Rate Unit	
	(A)	(B)	(C = A * B)	(D = C / 100)	
Affordable Units - Very Low Income (50%)	4.9	\$163,946	\$807,232		
Affordable Units - Low Income (60%)	2.7	\$120,146	\$319,424		
Affordable Units - Low Income (80%) Affordable Units - Median Income	2.4	\$57,855	\$137,207		
Total	<u>1.0</u> 10.9	\$0	<u>\$0</u> \$1,263,864	\$12,639	

Table 7
Maximum Impact Fee Calculations -- 1 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

			Total In-Lieu Fee Required		
Item	Affordable Units Required Per 100 Market-Rate Units	Financing Gap per Affordable Unit [1]	Per 100 Market-Rate Units	Per Market Rate Unit	
	(A)	(B)	(C = A * B)	(D = C / 100)	
Affordable Units - Very Low Income (50%)	5.3	\$163,946	\$865,441		
Affordable Units - Low Income (60%)	2.8	\$120,146	\$338,123		
Affordable Units - Low Income (80%)	2.5	\$57,855	\$147,254		
Affordable Units - Median Income	<u>1.0</u>	\$0	<u>\$0</u>		
Total	11.6		\$1,350,817	\$13,508	

Table 8
Maximum Impact Fee Calculations -- 2 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

			Total In-Lieu	Fee Required
Item	Affordable Units Required Per 100 Market-Rate Units	Financing Gap per Affordable Unit [1]	Per 100 Market-Rate Units	Per Market Rate Unit
	(A)	(B)	(C = A * B)	(D = C / 100)
Affordable Units - Very Low Income (50%)	6.2	\$163,946	\$1,009,214	
Affordable Units - Low Income (60%)	3.3	\$120,146	\$394,347	
Affordable Units - Low Income (80%)	2.9	\$57,855	\$165,880	
Affordable Units - Median Income	<u>1.2</u>	\$0	<u>\$0</u>	
Total	13.6		\$1,569,440	\$15,694

Table 9
Maximum Impact Fee Calculations -- 3 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

			Total In-Lieu Fee Required							
Item	Affordable Units Required Per 100 Market-Rate Units	Financing Gap per Affordable Unit [1]	Per 100 Market-Rate Units	Per Market Rate Unit						
	(A)	(B)	(C = A * B)	(D = C / 100)						
Affordable Units - Very Low Income (50%)	7.4	\$163,946	\$1,220,305							
Affordable Units - Low Income (60%)	4.0	\$120,146	\$478,987							
Affordable Units - Low Income (80%)	3.4	\$57,855	\$194,301							
Affordable Units - Median Income	<u>1.4</u>	\$0	<u>\$0</u>							
Total	16.2		\$1,893,594	\$18,936						

APPENDICES:

Appendix A: Development Cost Assumptions

Appendix B: Household Expenditures and

Employment Generation

Appendix C: Income Levels for Worker Households



APPENDIX A:

Development Cost Assumptions

Table A-1	Pleasanton Residential Land Sales
Table A-2	Survey of Home Ownership Association Fees
	in Pleasanton and Adjacent CitiesA-2



Table A-1
Pleasanton Residential Land Sales
City of Pleasanton Housing Impact Fee, EPS #121115

Property ID	Acres	Sale Price/ Land Value	Max Units/ Units	\$/Acre	\$/Unit	Source	Sale Date
BRE	8.2	\$9,800,000	300	\$1,199,510	\$32,667	CoStar	2007
Archstone Hacienda	22.9	\$32,092,610	540	\$1,398,980	\$59,431	Trulia (AV)	2007
Springhouse	14.7	\$21,067,440	354	\$1,431,796	\$59,513	Parcel Quest (AV)	2012
Gatewood	10.9	\$11,319,200	200	\$1,035,608	\$56,596	Redfin/Trulia (AV)	2003
Plaza De La Vista	2.9	\$1,710,000	55	\$589,655	\$31,091	Parcel Quest (AV)	2011
Pleasanton Place	2.0	\$2,300,000	51	\$1,159,859	\$45,098	Parcel Quest (AV)	2008
Average Weighted Average				\$1,135,901 \$1,270,166	\$47,399 \$52,193		

Table A-2 Survey of Home Ownership Association Fees Near the City of Pleasanton City of Pleasanton Housing Impact Fee, EPS #121115

Property Name	Year Built	Monthly HOA	Unit List Price	City
Smoketree Commons	1998	\$327	\$279,000	Pleasanton
Foothill Rd	1972	\$256	\$299,988	Pleasanton
Clarinbridge	2004	\$190	\$405,500	Pleasanton
Canyon Meadow	1991	\$401	\$329,950	Pleasanton
Finnian Way	2007	\$341	\$469,000	Dublin
Heligan	2008	\$225	\$435,000	Dublin
Reflections	1988	\$235	\$300,000	San Ramon
Fostoria	2009	\$324	\$445,000	San Ramon
Eagle Lake	1989	\$346	\$699,000	San Ramon
Crow Canyon	1988	\$292	\$307,000	San Ramon
Depot	2006	\$243	\$419,750	Livermore
El Dorado	1972	\$391	\$268,000	Danville
Average	1994	\$298	\$388,099	

Sources: Redfin.com; Economic & Planning Systems, Inc

APPENDIX B:

Household Expenditures and Employment Generation

Table B-1

Table B-5

	Associated Employment Generation—Studio (3 pages)B-1
Table B-2	Estimated Average Annual Household Expenditures and Associated Employment Generation—1-Bedroom (3 pages) B-4
Table B-3	Estimated Average Annual Household Expenditures and Associated Employment Generation—2-Bedroom (3 pages) B-7
Table B-4	Estimated Average Annual Household Expenditures and Associated Employment Generation—3-Bedroom (3 pages) B-10

Representative Public Sector Employment and Wages...... B-13

Estimated Average Annual Household Expenditures and



Table B-1
Estimated Average Annual Household Expenditures and Associated Employment Generation - Studio
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wages	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Food at Home	6.9%	100%	\$4,384	\$4,058									
Food & Beverage Stores		100%	\$4,384	\$4,058	\$4,057,969	8.07	\$503,101	\$26,541	19	89.9%	1.69	10.1	\$44,923
Food Away From Home	4.4%	100%	\$2,799	\$2,591									
Food Services and Drinking Places		100%	\$2,799	\$2,591	\$2,591,209	3.49	\$743,116	\$14,455	51	89.9%	1.69	27.3	\$24,466
Alcoholic Beverages	0.7%	100%	\$421	\$390									
Food & Beverage Stores		50%	\$211	\$195	\$210,681	8.07	\$26,120	\$26,541	1	89.9%	1.69	0.6	\$44,923
Food Services and Drinking Places		50%	\$211	\$195	\$210,681	3.49	\$60,420	\$14,455	4	89.9%	1.69	2.5	\$24,466
Housing Maintenance, Repairs, Insurance, Other expenses	1.8%	100%	\$1,173	\$1,086									
Personal and Household Goods Repair and Maintenance [7]		45%	\$528	\$489	\$488,632	3.72	\$131,386	\$26,783	5	96.8%	1.69	2.8	\$45,332
Building Material and Garden Equipment and Supplies Dealer		45%	\$528	\$489	\$488,632	7.52	\$64,995	\$35,469	2	89.9%	1.69	1.0	\$60,033
Real Estate and Rental and Leasing		10%	\$117	\$109	\$108,585	5.29	\$20,530	\$35,283	1	96.8%	1.69	0.3	\$59,719
Fuel Oil and Other Fuels [6]	0.3%	100%	\$173	\$160									
Nonstore Retailers		100%	\$173	\$160	\$160,490	6.95	\$23,097	\$37,028	1	89.9%	1.69	0.3	\$62,673
Water and Other Public Services [6]	0.9%	100%	\$575										
Waste Management and Remediation Services		100%	\$575	\$532	\$532,259	4.79	\$111,088	\$40,694	3	96.8%	1.69	1.6	\$68,878
Household Operations Personal Services	0.5%	100%	\$295	\$273									
Nursing and Residential Care Facilities		40%	\$118	\$109	\$109,296	2.49	\$43,840	\$28,988	2	96.8%	1.69	0.9	\$49,064
Social Assistance [7]		60%	\$177	\$164	\$163,944	2.98	\$54,950	\$23,861	2	96.8%	1.69	1.3	\$40,386
Household Operations Other Household Expenses	1.1%	100%	\$730	\$675									
Services to Buildings and Dwellings [7]		100%	\$730	\$675	\$675,482	2.64	\$255,450	\$25,071	10	96.8%	1.69	5.8	\$42,434
Housekeeping Supplies	1.1%	100%	\$687	\$636									
Building Materials and Garden Equipment and Supplies Dealers		10%	\$69	\$64	\$63,587	7.52	\$8,458	\$35,469	0	89.9%	1.69	0.1	\$60,033
Food & Beverage Stores		35%	\$240	\$223	\$222,553	8.07	\$27,592	\$26,541	1	89.9%	1.69	0.6	\$44,923
General Merchandise		35%	\$240	\$223	\$222,553	12.13	\$18,343	\$21,273	1	89.9%	1.69	0.5	\$36,007
Miscellaneous Store Retailers		20%	\$137	\$127	\$127,173	6.46	\$19,697	\$20,030	1	89.9%	1.69	0.5	\$33,903
Household Furnishings and Equipment	2.9%	100%	\$1,867										
Furniture and Home Furnishings Stores		40%	\$747	*	\$691,124		\$112,330		4	89.9%	1.69	2.0	
Electronics and Appliance Stores		40%	\$747	\$691	\$691,124	9.53	\$72,557	\$26,708	3	89.9%	1.69	1.4	
General Merchandise Stores		10%	\$187	\$173	\$172,781	12.13	\$14,241	\$21,273	1	89.9%	1.69	0.4	
Miscellaneous Store Retailers		10%	\$187	\$173	\$172,781	6.46	\$26,760	\$20,030	1	89.9%	1.69	0.7	\$33,903

Table B-1
Estimated Average Annual Household Expenditures and Associated Employment Generation - Studio
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wages	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Apparel and Services	3.0%	100%	\$1,939	\$1,795									
Clothing and Clothing Accessories Stores		40%	\$776	\$718	\$717,941	7.80	\$92,021	\$16,289	6	89.9%	1.69	3.0	\$27,571
General Merchandise		40%	\$776	\$718	\$717,941	12.13	\$59,174	\$21,273	3	89.9%	1.69	1.5	\$36,007
Miscellaneous Store Retailers		10%	\$194	\$179	\$179,485	6.46	\$27,799	\$20,030	1	89.9%	1.69	0.7	\$33,903
Personal and Household Goods Repair and Maintenance [7]		5%	\$97	\$90	\$89,743	3.72	\$24,130	\$26,783	1	96.8%	1.69	0.5	\$45,332
Dry Cleaning and Laundry Services [7]		5%	\$97	\$90	\$89,743	3.17	\$28,346	\$25,028	1	89.9%	1.69	0.6	\$42,361
Vehicle Purchases (net outlay)	5.0%	100%	\$3,159	\$2,924									
Motor Vehicle and Parts Dealers		100%	\$3,159	\$2,924	\$2,924,379	8.79	\$332,831	\$42,196	8	96.8%	1.69	4.5	\$71,420
Gasoline and motor oil	5.1%	100%	\$3,249	\$3,008									
Gasoline Stations		100%	\$3,249	\$3,008	\$3,007,671	38.48	\$78,159	\$18,946	4	89.9%	1.69	2.2	\$32,067
Vehicle Maintenance and Repairs	1.6%	100%	\$991	\$917									
Repair and Maintenance [7]		100%	\$991	\$917	\$917,233	3.55	\$258,609	\$29,204	9	96.8%	1.69	5.1	\$49,430
Medical Services	1.5%	100%	\$966	\$894									
Ambulatory Health Care Services		40%	\$386	\$358	\$357,548	2.55	\$140,135	\$54,753	3	96.8%	1.69	1.5	
General Medical and Surgical Hospitals [7]		30%	\$290	\$268	\$268,161	2.63	\$101,958	\$58,054	2	96.8%	1.69	1.0	\$98,260
Nursing and Residential Care Facilities		30%	\$290	\$268	\$268,161	2.49	\$107,563	\$28,988	4	96.8%	1.69	2.1	\$49,064
Drugs	0.9%	100%	\$587	\$543									
Health and Personal Care Stores		100%	\$587	\$543	\$543,433	7.51	\$72,381	\$29,774	2	89.9%	1.69	1.3	\$50,394
Medical Supplies	0.2%	100%	\$128	\$119									
Health and Personal Care Stores		100%	\$128	\$119	\$118,844	7.51	\$15,829	\$29,774	1	89.9%	1.69	0.3	\$50,394
Entertainment Fees and Admissions	0.8%	100%	\$514	\$475									
Arts, Entertainment, & Recreation		100%	\$514	\$475	\$475,377	3.34	\$142,346	\$28,077	5	89.9%	1.69	2.7	\$47,523
Audio and Visual Equipment and Services	1.8%	100%	\$1,164	\$1,078									
Electronics and Appliance Stores		100%	\$1,164	\$1,078	\$1,077,723	9.53	\$113,144	\$26,708	4	89.9%	1.69	2.3	\$45,205
Pets, Toys, Hobbies, and Playground Equip.	1.2%		\$793	\$734									
Sporting Goods, Hobby, and Musical Instrument Stores		40%	\$317	\$294	\$293,758	7.66	\$38,347	\$16,640	2	89.9%	1.69	1.2	
Miscellaneous Store Retailers		40%	\$317	\$294	\$293,758	6.46	\$45,497	\$20,030	2	89.9%	1.69	1.2	\$33,903
Veterinary Services [7]		20%	\$159	\$147	\$146,879	2.81	\$52,204	\$34,148	2	96.8%	1.69	0.9	\$57,797

Table B-1
Estimated Average Annual Household Expenditures and Associated Employment Generation - Studio
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wages	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a *	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Other Entertainment Supplies, Equipment, and Services	1.0%	100%	\$634	\$587									
Sporting Goods, Hobby, and Musical Instrument Stores		85%	\$539	\$499	\$499,044	7.66	\$65,146	\$16,640	4	89.9%	1.69	2.1	\$28,164
Photographic Services [7]		15%	\$95	\$88	\$88,067	4.55	\$19,337	\$22,554	1	96.8%	1.69	0.5	\$38,174
Personal Care Products and Services	1.1%	100%	\$680	\$630									
Unspecified Retail		50%	\$340	\$315	\$314,886	6.46	\$48,769	\$20,030	2	89.9%	1.69	1.3	\$33,903
Personal Care Services [7]		50%	\$340	\$315	\$314,886	2.99	\$105,170	\$16,484	6	96.8%	1.69	3.6	\$27,901
Reading	0.2%	100%	\$145	\$134									
Sporting Goods, Hobby, and Musical Instrument Stores		100%	\$145	\$134	\$134,081	7.66	\$17,503	\$16,640	1	89.9%	1.69	0.6	\$28,164
Education	1.1%	100%	\$691	\$640									
Educational Services		100%	\$691	\$640	\$639,930	4.34	\$147,488	\$24,412	6	96.8%	1.69	3.5	\$41,319
Miscellaneous	1.2%	100%	\$748	\$693									
Accounting [7]		20%	\$150	\$139	\$138,550	1.98	\$69,913	\$33,564	2	96.8%	1.69	1.2	\$56,810
Architectural, Engineering, and Related [7,8]		20%	\$150	\$139	\$138,550	2.80	\$49,411	\$74,995	1	96.8%	1.69	0.4	\$126,934
Specialized Design Services [7]		20%	\$150	\$139	\$138,550	3.72	\$37,291	\$53,888	1	96.8%	1.69	0.4	\$91,209
Death Care Services [7]		20%	\$150	\$139	\$138,550	3.47	\$39,874	\$36,983	1	96.8%	1.69	0.6	\$62,596
Legal Services [7]		20%	\$150	\$139	\$138,550	2.76	\$50,172	\$85,734	1	96.8%	1.69	0.3	\$145,110
Total per 1,000 Market Rate Households									196			107.6	

Per Table 4, the rental of a Studio apartment requires a household income of

\$63,720

Sources: 2010 Consumer Expenditure Survey, U.S. Bureau of Labor Statistics; 2007 Economic Census, U.S. Census Bureau; Census 2010; Economic & Planning Systems, Inc.

^[1] Percent of income spent per category is based on the 2010 Consumer Expenditure Survey data for households at this income level. Note that the sum of the categories included in this analysis is well below the total expenditures of households at this income level, and thus represents a conservative estimation of job creation and housing impacts. Expenditure categories not incorporated due to data constraints include taxes, housing and lodging, most utilities, tobacco, health insurance, personal/life insurance, cash contributions, and financing charges.

^[2] Where multiple business types are likely to provide goods and services in the expenditure category, EPS has estimated the proportion accruing to each business type.

^{[3] 2010} expenditures converted to 2007 dollars using the Consumer Price Index for the San Francisco Metropolitan Statistical Area from the Bureau of Labor Statistics.

^[4] BLS data indicates that 10.1% of retail/restaurant workers are age 16-19, but an average of only 3.2% of workers overall (applied to non-retail/restaurant industries). EPS has assumed that such young workers do not form their own households.

^[5] Based on 2011 ACS Census data for the City of Pleasanton.

^[6] Part of the Utilities, Fuels, and Public Services category, which also includes natural gas, electricity, and telephone services. Natural gas, electricity, and telephone services not estimated because data was not available in the 2007 Economic Census.

^[7] Alameda County data not available from 2007 Economic Census. Gross receipts to wages and 2007 average wage thus based on statewide data.

^[8] Note that average salary reported for architecture, engineering and related industries reflects the full range of employees within the industry, not solely professional and technical staff.

Table B-2
Estimated Average Annual Household Expenditures and Associated Employment Generation - 1 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Food at Home	6.1%	100%	\$4,323	\$4,002									
Food & Beverage Stores		100%	\$4,323	\$4,002	\$4,002,078	8.07	\$496,172	\$26,541	19	89.9%	1.69	9.9	\$44,923
Food Away From Home	4.4%	100%	\$3,097	\$2,867									
Food Services and Drinking Places		100%	\$3,097	\$2,867	\$2,866,934	3.49	\$822,189	\$14,455	57	89.9%	1.69	30.2	\$24,466
Alcoholic Beverages	0.8%	100%	\$544	\$504									
Food & Beverage Stores		50%	\$272	\$252	\$272,019	8.07	\$33,725	\$26,541	1	89.9%	1.69	0.8	\$44,923
Food Services and Drinking Places		50%	\$272	\$252	\$272,019	3.49	\$78,011	\$14,455	5	89.9%	1.69	3.2	\$24,466
Housing Maintenance, Repairs, Insurance, Other expenses	1.7%	100%	\$1,190	\$1,101									
Personal and Household Goods Repair and Maintenance [7]		45%	\$535	\$496	\$495,519	3.72	\$133,237	\$26,783	5	96.8%	1.69	2.8	\$45,332
Building Material and Garden Equipment and Supplies Dealer		45%	\$535	\$496	\$495,519	7.52	\$65,911	\$35,469	2	89.9%	1.69	1.0	\$60,033
Real Estate and Rental and Leasing		10%	\$119	\$110	\$110,115	5.29	\$20,819	\$35,283	1	96.8%	1.69	0.3	\$59,719
Fuel Oil and Other Fuels [6]	0.2%	100%	\$163	\$151									
Nonstore Retailers		100%	\$163	\$151	\$151,174	6.95	\$21,756	\$37,028	1	89.9%	1.69	0.3	\$62,673
Water and Other Public Services [6]	0.8%	100%	\$571	\$529									
Waste Management and Remediation Services		100%	\$571	\$529	\$528,661	4.79	\$110,337	\$40,694	3	96.8%	1.69	1.6	\$68,878
Household Operations Personal Services	0.8%	100%	\$549	\$508									
Nursing and Residential Care Facilities		40%	\$220	\$203	\$203,235	2.49	\$81,520	\$28,988	3	96.8%	1.69	1.6	\$49,064
Social Assistance [7]		60%	\$329	\$305	\$304,852	2.98	\$102,180	\$23,861	4	96.8%	1.69	2.4	\$40,386
Household Operations Other Household Expenses	1.1%	100%	\$785	\$726									
Services to Buildings and Dwellings [7]		100%	\$785	\$726	\$726,350	2.64	\$274,686	\$25,071	11	96.8%	1.69	6.3	\$42,434
Housekeeping Supplies	0.9%	100%	\$657	\$608									
Building Materials and Garden Equipment and Supplies Dealers		10%	\$66	\$61	\$60,827	7.52	\$8,091	\$35,469	0	89.9%	1.69	0.1	\$60,033
Food & Beverage Stores		35%	\$230	\$213	\$212,896	8.07	\$26,394	\$26,541	1	89.9%	1.69	0.5	
General Merchandise		35%	\$230	\$213	\$212,896	12.13	\$17,547	\$21,273	1	89.9%	1.69	0.4	\$36,007
Miscellaneous Store Retailers		20%	\$131	\$122	\$121,655	6.46	\$18,842	\$20,030	1	89.9%	1.69	0.5	\$33,903
Household Furnishings and Equipment	2.7%	100%	\$1,893	\$1,752									
Furniture and Home Furnishings Stores		40%	\$757	\$701	\$700,945		\$113,926		4		1.69	2.0	\$50,016
Electronics and Appliance Stores		40%	\$757	\$701	\$700,945		\$73,588		3		1.69		
General Merchandise Stores		10%	\$189	\$175	\$175,236	12.13	\$14,443		1	89.9%	1.69		
Miscellaneous Store Retailers		10%	\$189	\$175	\$175,236	6.46	\$27,141	\$20,030	1	89.9%	1.69	0.7	\$33,903

Table B-2
Estimated Average Annual Household Expenditures and Associated Employment Generation - 1 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Apparel and Services	2.7%	100%	\$1,917	\$1,775									
Clothing and Clothing Accessories Stores		40%	\$767	\$710	\$709,890	7.80	\$90,989	\$16,289	6	89.9%	1.69	3.0	\$27,571
General Merchandise		40%	\$767	\$710	\$709,890	12.13	\$58,510	\$21,273	3	89.9%	1.69	1.5	\$36,007
Miscellaneous Store Retailers		10%	\$192	\$177	\$177,473	6.46	\$27,487	\$20,030	1	89.9%	1.69	0.7	\$33,903
Personal and Household Goods Repair and Maintenance [7]		5%	\$96	\$89	\$88,736	3.72	\$23,860	\$26,783	1	96.8%	1.69	0.5	\$45,332
Dry Cleaning and Laundry Services [7]		5%	\$96	\$89	\$88,736	3.17	\$28,029	\$25,028	1	89.9%	1.69	0.6	\$42,361
Vehicle Purchases (net outlay)	4.2%	100%	\$2,991	\$2,769									
Motor Vehicle and Parts Dealers		100%	\$2,991	\$2,769	\$2,768,537	8.79	\$315,095	\$42,196	7	96.8%	1.69	4.3	\$71,420
Gasoline and motor oil	4.6%	100%	\$3,232	\$2,992									
Gasoline Stations		100%	\$3,232	\$2,992	\$2,992,166	38.48	\$77,756	\$18,946	4	89.9%	1.69	2.2	\$32,067
Vehicle Maintenance and Repairs	1.4%	100%	\$958	\$886									
Repair and Maintenance [7]		100%	\$958	\$886	\$886,468	3.55	\$249,935	\$29,204	9	96.8%	1.69	4.9	\$49,430
Medical Services	1.5%	100%	\$1,024	\$948									
Ambulatory Health Care Services		40%	\$410	\$379	\$379,276	2.55	\$148,651	\$54,753	3	96.8%	1.69	1.6	\$92,673
General Medical and Surgical Hospitals [7]		30%	\$307	\$284	\$284,457	2.63	\$108,154	\$58,054	2	96.8%	1.69	1.1	\$98,260
Nursing and Residential Care Facilities		30%	\$307	\$284 \$0	\$284,457	2.49	\$114,100	\$28,988	4	96.8%	1.69	2.3	\$49,064
Drugs	0.6%	100%	\$451	\$418									
Health and Personal Care Stores		100%	\$451	\$418 \$0	\$417,740	7.51	\$55,640	\$29,774	2	89.9%	1.69	1.0	\$50,394
Medical Supplies	0.3%	100%	\$204	\$189									
Health and Personal Care Stores		100%	\$204	\$189	\$188,744	7.51	\$25,139	\$29,774	1	89.9%	1.69	0.4	\$50,394
Entertainment Fees and Admissions	1.0%	100%	\$674	\$623									
Arts, Entertainment, & Recreation		100%	\$674	\$623	\$623,480	3.34	\$186,694	\$28,077	7	89.9%	1.69	3.5	\$47,523
Audio and Visual Equipment and Services	1.6%	100%	\$1,134	\$1,050									
Electronics and Appliance Stores		100%	\$1,134	\$1,050	\$1,050,165	9.53	\$110,251	\$26,708	4	89.9%	1.69	2.2	\$45,205
Pets, Toys, Hobbies, and Playground Equip.	1.1%	100%	\$788	\$729									
Sporting Goods, Hobby, and Musical Instrument Stores		40%	\$315	\$292	\$291,613	7.66	\$38,067	\$16,640	2	89.9%	1.69	1.2	\$28,164
Miscellaneous Store Retailers		40%	\$315	\$292	\$291,613	6.46	\$45,165	\$20,030	2	89.9%	1.69	1.2	\$33,903
Veterinary Services [7]		20%	\$158	\$146	\$145,807	2.81	\$51,822	\$34,148	2	96.8%	1.69	0.9	\$57,797

Table B-2
Estimated Average Annual Household Expenditures and Associated Employment Generation - 1 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Other Entertainment Supplies, Equipment, and Services	0.6%	100%	\$410	\$379									
Sporting Goods, Hobby, and Musical Instrument Stores		85%	\$348	\$322	\$322,385	7.66	\$42,084	\$16,640	3	89.9%	1.69	1.3	\$28,164
Photographic Services [7]		15%	\$61	\$57	\$56,891	4.55	\$12,492	\$22,554	1	96.8%	1.69	0.3	\$38,174
Personal Care Products and Services	1.1%	100%	\$801	\$742									
Unspecified Retail		50%	\$401	\$371	\$370,778	6.46	\$57,426	\$20,030	3	89.9%	1.69	1.5	\$33,903
Personal Care Services [7]		50%	\$401	\$371	\$370,778	2.99	\$123,838	\$16,484	8	96.8%	1.69	4.3	\$27,901
Reading	0.2%	100%	\$119	\$110									
Sporting Goods, Hobby, and Musical Instrument Stores		100%	\$119	\$110	\$110,026	7.66	\$14,363	\$16,640	1	89.9%	1.69	0.5	\$28,164
Education	1.0%	100%	\$731	\$676									
Educational Services		100%	\$731	\$676	\$676,256	4.34	\$155,861	\$24,412	6	96.8%	1.69	3.7	\$41,319
Miscellaneous	1.3%	100%	\$919	\$851									
Accounting [7]		20%	\$184	\$170	\$170,138	1.98	\$85,852	\$33,564	3	96.8%	1.69	1.5	\$56,810
Architectural, Engineering, and Related [7,8]		20%	\$184	\$170	\$170,138	2.80	\$60,676	\$74,995	1	96.8%	1.69	0.5	\$126,934
Specialized Design Services [7]		20%	\$184	\$170	\$170,138	3.72	\$45,793	\$53,888	1	96.8%	1.69	0.5	\$91,209
Death Care Services [7]		20%	\$184	\$170	\$170,138	3.47	\$48,965	\$36,983	1	96.8%	1.69	0.8	\$62,596
Legal Services [7]		20%	\$184	\$170	\$170,138	2.76	\$61,610	\$85,734	<u>1</u>	96.8%	1.69	0.4	\$145,110
Total per 1,000 Market Rate Households									209			114.3	

Per Table 4, the rental of a 1 Bedroom apartment requires a household income of

\$70,440

Sources: 2010 Consumer Expenditure Survey, U.S. Bureau of Labor Statistics; 2007 Economic Census, U.S. Census Bureau; Census 2010; Economic & Planning Systems, Inc.

^[1] Percent of income spent per category is based on the 2010 Consumer Expenditure Survey data for households at this income level. Note that the sum of the categories included in this analysis is well below the total expenditures of households at this income level, and thus represents a conservative estimation of job creation and housing impacts. Expenditure categories not incorporated due to data constraints include taxes, housing and lodging, most utilities, tobacco, health insurance, personal/life insurance, cash contributions, and financing charges.

^[2] Where multiple business types are likely to provide goods and services in the expenditure category, EPS has estimated the proportion accruing to each business type.

^{[3] 2010} expenditures converted to 2007 dollars using the Consumer Price Index for the San Francisco Metropolitan Statistical Area from the Bureau of Labor Statistics.

^[4] BLS data indicates that 10.1% of retail/restaurant workers are age 16-19, but an average of only 3.2% of workers overall (applied to non-retail/restaurant industries). EPS has assumed that such young workers do not form their own households.

^[5] Based on 2011 ACS Census data for Pleasanton.

^[6] Part of the Utilities, Fuels, and Public Services category, which also includes natural gas, electricity, and telephone services. Natural gas, electricity, and telephone services not estimated because data was not available in the 2007 Economic Census.

^[7] Alameda County data not available from 2007 Economic Census. Gross receipts to wages and 2007 average wage thus based on statewide data.

^[8] Note that average salary reported for architecture, engineering and related industries reflects the full range of employees within the industry, not solely professional and technical staff.

Table B-3
Estimated Average Annual Household Expenditures and Associated Employment Generation - 2 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e /f	h	i = g/h	j	k	l=i*j/k	m = h * j
Food at Home	5.4%	100%	\$4,767	\$4,413									
Food & Beverage Stores		100%	\$4,767	\$4,413	\$4,413,199	8.07	\$547,142	\$26,541	21	89.9%	1.69	10.9	\$44,923
Food Away From Home	4.1%	100%	\$3,619	\$3,350									
Food Services and Drinking Places		100%	\$3,619	\$3,350	\$3,349,720	3.49	\$960,644	\$14,455	66	89.9%	1.69	35.3	\$24,466
Alcoholic Beverages	0.8%	100%	\$690	\$639									
Food & Beverage Stores		50%	\$345	\$320	\$345,168	8.07	\$42,793	\$26,541	2	89.9%	1.69	1.0	\$44,923
Food Services and Drinking Places		50%	\$345	\$320	\$345,168	3.49	\$98,989	\$14,455	7	89.9%	1.69	4.0	\$24,466
Housing Maintenance, Repairs, Insurance, Other expenses	1.7%	100%	\$1,556	\$1,440									
Personal and Household Goods Repair and Maintenance [7]		45%	\$700	\$648	\$648,102	3.72	\$174,265	\$26,783	7	96.8%	1.69	3.7	45,332
Building Material and Garden Equipment and Supplies Dealer		45%	\$700	\$648	\$648,102	7.52	\$86,206	\$35,469	2	89.9%	1.69	1.3	\$60,033
Real Estate and Rental and Leasing		10%	\$156	\$144	\$144,023	5.29	\$27,230	\$35,283	1	96.8%	1.69	0.4	\$59,719
Fuel Oil and Other Fuels [6]	0.2%	100%	\$193	\$178									
Nonstore Retailers		100%	\$193	\$178	\$178,359	6.95	\$25,668	\$37,028	1	89.9%	1.69	0.4	\$62,673
Water and Other Public Services [6]	0.7%	100%	\$635	\$588									
Waste Management and Remediation Services		100%	\$635	\$588	\$587,536	4.79	\$122,625	\$40,694	3	96.8%	1.69	1.7	\$68,878
Household Operations Personal Services	0.6%	100%	\$563	\$521									
Nursing and Residential Care Facilities		40%	\$225	\$208	\$208,308	2.49	\$83,555	\$28,988	3	96.8%	1.69	1.6	\$49,064
Social Assistance [7]		60%	\$338	\$312	\$312,462	2.98	\$104,731	\$23,861	4	96.8%	1.69	2.5	\$40,386
Household Operations Other Household Expenses	1.0%	100%	\$860	\$796									
Services to Buildings and Dwellings [7]		100%	\$860	\$796	\$796,417	2.64	\$301,184	\$25,071	12	96.8%	1.69	6.9	\$42,434
Housekeeping Supplies	0.9%	100%	\$778	\$720									
Building Materials and Garden Equipment and Supplies Dealers		10%	\$78	\$72	\$72,011	7.52	\$9,578	\$35,469	0	89.9%	1.69	0.1	\$60,033
Food & Beverage Stores		35%	\$272	\$252	\$252,040	8.07	\$31,247	\$26,541	1	89.9%	1.69	0.6	\$44,923
General Merchandise		35%	\$272		\$252,040	12.13	\$20,773			89.9%	1.69	0.5	
Miscellaneous Store Retailers		20%	\$156	\$144	\$144,023	6.46	\$22,306	\$20,030	1	89.9%	1.69	0.6	\$33,903
Household Furnishings and Equipment	2.3%	100%	\$2,066										
Furniture and Home Furnishings Stores		40%	\$826	\$765	\$764,942	6.15	\$124,327	\$29,550		89.9%	1.69	2.2	
Electronics and Appliance Stores		40%	\$826		\$764,942	9.53	\$80,307				1.69	1.6	
General Merchandise Stores		10%	\$207	\$191	\$191,235	12.13	\$15,762		1	89.9%	1.69	0.4	
Miscellaneous Store Retailers		10%	\$207	\$191	\$191,235	6.46	\$29,618	\$20,030	1	89.9%	1.69	8.0	3 \$33,903

Table B-3
Estimated Average Annual Household Expenditures and Associated Employment Generation - 2 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Apparel and Services	2.6%	100%	\$2,287	\$2,117									
Clothing and Clothing Accessories Stores		40%	\$915	\$847	\$846,968	7.80	\$108,559	\$16,289	7	89.9%	1.69	3.5	\$27,571
General Merchandise		40%	\$915	\$847	\$846,968	12.13	\$69,808	\$21,273	3	89.9%	1.69	1.7	\$36,007
Miscellaneous Store Retailers		10%	\$229	\$212	\$211,742	6.46	\$32,795	\$20,030	2	89.9%	1.69	0.9	\$33,903
Personal and Household Goods Repair and Maintenance [7]		5%	\$114	\$106	\$105,871	3.72	\$28,467	\$26,783	1	96.8%	1.69	0.6	\$45,332
Dry Cleaning and Laundry Services [7]		5%	\$114	\$106	\$105,871	3.17	\$33,441	\$25,028	1	89.9%	1.69	0.7	\$42,361
Vehicle Purchases (net outlay)	5.2%	100%	\$4,590	\$4,249									
Motor Vehicle and Parts Dealers		100%	\$4,590	\$4,249	\$4,249,146	8.79	\$483,607	\$42,196	11	96.8%	1.69	6.6	\$71,420
Gasoline and motor oil	4.2%	100%	\$3,722	\$3,445									
Gasoline Stations		100%	\$3,722	\$3,445	\$3,445,099	38.48	\$89,527	\$18,946	5	89.9%	1.69	2.5	\$32,067
Vehicle Maintenance and Repairs	1.3%	100%	\$1,184	\$1,096									
Repair and Maintenance [7]		100%	\$1,184	\$1,096	\$1,095,908	3.55	\$308,986	\$29,204	11	96.8%	1.69	6.1	\$49,430
Medical Services	1.1%	100%	\$1,003	\$928									
Ambulatory Health Care Services		40%	\$401		\$371,216	2.55	\$145,492		3		1.69	1.5	
General Medical and Surgical Hospitals [7]		30%	\$301	\$278	\$278,412	2.63	\$105,856	\$58,054	2	96.8%	1.69	1.0	\$98,260
Nursing and Residential Care Facilities		30%	\$301	\$278 \$0	\$278,412	2.49	\$111,675	\$28,988	4	96.8%	1.69	2.2	\$49,064
Drugs	0.7%	100%	\$597	\$552									
Health and Personal Care Stores		100%	\$597	\$552 \$0	\$552,246	7.51	\$73,555	\$29,774	2	89.9%	1.69	1.3	\$50,394
Medical Supplies	0.2%	100%	\$171	\$158									
Health and Personal Care Stores		100%	\$171	\$158	\$158,330	7.51	\$21,088	\$29,774	1	89.9%	1.69	0.4	\$50,394
Entertainment Fees and Admissions	0.9%	100%	\$763	\$707									
Arts, Entertainment, & Recreation		100%	\$763	\$707	\$706,760	3.34	\$211,631	\$28,077	8	89.9%	1.69	4.0	\$47,523
Audio and Visual Equipment and Services	1.4%	100%	\$1,288	\$1,192									
Electronics and Appliance Stores		100%	\$1,288	\$1,192	\$1,192,241	9.53	\$125,166	\$26,708	5	89.9%	1.69	2.5	\$45,205
Pets, Toys, Hobbies, and Playground Equip.	1.1%	100%	\$951	\$880									
Sporting Goods, Hobby, and Musical Instrument Stores		40%	\$380	\$352	\$352,140	7.66	\$45,969	\$16,640	3	89.9%	1.69	1.5	\$28,164
Miscellaneous Store Retailers		40%	\$380	\$352	\$352,140	6.46	\$54,539	\$20,030	3	89.9%	1.69	1.4	\$33,903
Veterinary Services [7]		20%	\$190	\$176	\$176,070	2.81	\$62,579	\$34,148	2	96.8%	1.69	1.0	\$57,797

Table B-3
Estimated Average Annual Household Expenditures and Associated Employment Generation - 2 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Other Entertainment Supplies, Equipment, and Services	0.5%	100%	\$473	\$438									
Sporting Goods, Hobby, and Musical Instrument Stores		85%	\$402	\$372	\$372,122	7.66	\$48,577	\$16,640	3	89.9%	1.69	1.6	\$28,164
Photographic Services [7]		15%	\$71	\$66	\$65,669	4.55	\$14,419	\$22,554	1	96.8%	1.69	0.4	\$38,174
Personal Care Products and Services	1.0%	100%	\$853	\$790									
Unspecified Retail		50%	\$427	\$395	\$394,870	6.46	\$61,157	\$20,030	3	89.9%	1.69	1.6	\$33,903
Personal Care Services [7]		50%	\$427	\$395	\$394,870	2.99	\$131,884	\$16,484	8	96.8%	1.69	4.6	\$27,901
Reading	0.2%	100%	\$156	\$144									
Sporting Goods, Hobby, and Musical Instrument Stores		100%	\$156	\$144	\$144,023	7.66	\$18,801	\$16,640	1	89.9%	1.69	0.6	\$28,164
Education	1.3%	100%	\$1,151	\$1,065									
Educational Services		100%	\$1,151	\$1,065	\$1,065,386	4.34	\$245,546	\$24,412	10	96.8%	1.69	5.8	\$41,319
Miscellaneous	1.0%	100%	\$925	\$857									
Accounting [7]		20%	\$185	\$171	\$171,301	1.98	\$86,440	\$33,564	3	96.8%	1.69	1.5	\$56,810
Architectural, Engineering, and Related [7,8]		20%	\$185	\$171	\$171,301	2.80	\$61,091	\$74,995	1	96.8%	1.69	0.5	\$126,934
Specialized Design Services [7]		20%	\$185	\$171	\$171,301	3.72	\$46,106	\$53,888	1	96.8%	1.69	0.5	\$91,209
Death Care Services [7]		20%	\$185	\$171	\$171,301	3.47	\$49,300	\$36,983	1	96.8%	1.69	0.8	\$62,596
Legal Services [7]		20%	\$185	\$171	\$171,301	2.76	\$62,032	\$85,734	1	96.8%	1.69	0.4	\$145,110
Total per 1,000 Market Rate Households									244			133.9	

Per Table 4, the rental of a 2 Bedroom apartment requires a household income of

\$89,040

- [2] Where multiple business types are likely to provide goods and services in the expenditure category, EPS has estimated the proportion accruing to each business type.
- [3] 2010 expenditures converted to 2007 dollars using the Consumer Price Index for the San Francisco Metropolitan Statistical Area from the Bureau of Labor Statistics.
- [4] BLS data indicates that 10.1% of retail/restaurant workers are age 16-19, but an average of only 3.2% of workers overall (applied to non-retail/restaurant industries). EPS has assumed that such young workers do not form their own households.
- [5] Based on 2011 ACS Census data for the City of Pleasanton.
- [6] Part of the Utilities, Fuels, and Public Services category, which also includes natural gas, electricity, and telephone services. Natural gas, electricity, and telephone services not estimated because data was not available in the 2007 Economic Census.
- [7] Alameda County data not available from 2007 Economic Census. Gross receipts to wages and 2007 average wage thus based on statewide data.
- [8] Note that average salary reported for architecture, engineering and related industries reflects the full range of employees within the industry, not solely professional and technical staff.

Sources: 2010 Consumer Expenditure Survey, U.S. Bureau of Labor Statistics; 2007 Economic Census, U.S. Census Bureau; Census 2010; Economic & Planning Systems, Inc.

^[1] Percent of income spent per category is based on the 2010 Consumer Expenditure Survey data for households at this income level. Note that the sum of the categories included in this analysis is well below the total expenditures of households at this income level, and thus represents a conservative estimation of job creation and housing impacts. Expenditure categories not incorporated due to data constraints include taxes, housing and lodging, most utilities, tobacco, health insurance, personal/life insurance, cash contributions, and financing charges.

Table B-4
Estimated Average Annual Household Expenditures and Associated Employment Generation - 3 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a * b	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	$m = h^* j$
Food at Home	4.9%		\$5,249	\$4,859									
Food & Beverage Stores		100%	\$5,249	\$4,859	\$4,858,832	8.07	\$602,391	\$26,541	23	89.9%	1.69	12.1	\$44,923
Food Away From Home	4.2%	100%	\$4,440	\$4,110									
Food Services and Drinking Places		100%	\$4,440	\$4,110	\$4,109,949	3.49	\$1,178,666	\$14,455	82	89.9%	1.69	43.3	\$24,466
Alcoholic Beverages	0.7%	100%	\$754	\$698									
Food & Beverage Stores		50%	\$377	\$349	\$377,160	8.07	\$46,760	\$26,541	2	89.9%	1.69	1.0	\$44,923
Food Services and Drinking Places		50%	\$377	\$349	\$377,160	3.49	\$108,163	\$14,455	7	89.9%	1.69	4.4	\$24,466
Housing Maintenance, Repairs, Insurance, Other expenses	1.6%	100%	\$1,687	\$1,561									
Personal and Household Goods Repair and Maintenance [7]		45%	\$759	\$703	\$702,675	3.72	\$188,938	\$26,783	7	96.8%	1.69	4.0	\$45,332
Building Material and Garden Equipment and Supplies Dealer		45%	\$759	\$703	\$702,675	7.52	\$93,465	\$35,469	3	89.9%	1.69	1.4	\$60,033
Real Estate and Rental and Leasing		10%	\$169	\$156	\$156,150	5.29	\$29,523	\$35,283	1	96.8%	1.69	0.5	\$59,719
Fuel Oil and Other Fuels [6]	0.2%	100%	\$231	\$214									
Nonstore Retailers		100%	\$231	\$214	\$213,699	6.95	\$30,754	\$37,028	1	89.9%	1.69	0.4	\$62,673
Water and Other Public Services [6]	0.7%	100%	\$699	\$647									
Waste Management and Remediation Services		100%	\$699	\$647	\$646,719	4.79	\$134,977	\$40,694	3	96.8%	1.69	1.9	\$68,878
Household Operations Personal Services	0.7%	100%	\$760	\$704									
Nursing and Residential Care Facilities		40%	\$304	\$282	\$281,557	2.49	\$112,937	\$28,988	4	96.8%	1.69	2.2	\$49,064
Social Assistance [7]		60%	\$456	\$422	\$422,336	2.98	\$141,558	\$23,861	6	96.8%	1.69	3.4	\$40,386
Household Operations Other Household Expenses	0.9%	100%	\$993	\$919									
Services to Buildings and Dwellings [7]		100%	\$993	\$919	\$919,466	2.64	\$347,718	\$25,071	14	96.8%	1.69	7.9	\$42,434
Housekeeping Supplies	1.0%	100%	\$1,078	\$998									
Building Materials and Garden Equipment and Supplies Dealers		10%	\$108	\$100	\$99,820	7.52	\$13,277	\$35,469	0	89.9%	1.69	0.2	\$60,033
Food & Beverage Stores		35%	\$377	\$349	\$349,369	8.07	\$43,314	\$26,541	2	89.9%	1.69	0.9	\$44,923
General Merchandise		35%	\$377	\$349	\$349,369		\$28,795				1.69	0.7	
Miscellaneous Store Retailers		20%	\$216	\$200	\$199,639	6.46	\$30,920	\$20,030	2	89.9%	1.69	0.8	3 \$33,903
Household Furnishings and Equipment	2.3%		\$2,444	\$2,263									
Furniture and Home Furnishings Stores		40%	\$978		\$905,032		\$147,096				1.69	2.6	
Electronics and Appliance Stores		40%	\$978		\$905,032		\$95,014				1.69	1.9	
General Merchandise Stores		10%	\$244	\$226	\$226,258		\$18,648		1		1.69	0.5	
Miscellaneous Store Retailers		10%	\$244	\$226	\$226,258	6.46	\$35,043	\$20,030	2	89.9%	1.69	0.9	\$33,903

Table B-4
Estimated Average Annual Household Expenditures and Associated Employment Generation - 3 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	а	b	c = Income * a *	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Apparel and Services	2.7%	100%	\$2,868	\$2,655									
Clothing and Clothing Accessories Stores		40%	\$1,147	\$1,062	\$1,062,120	7.80	\$136,135	\$16,289	8	89.9%	1.69	4.4	\$27,571
General Merchandise		40%	\$1,147	\$1,062	\$1,062,120	12.13	\$87,541	\$21,273	4	89.9%	1.69	2.2	\$36,007
Miscellaneous Store Retailers		10%	\$287	\$266	\$265,530	6.46	\$41,125	\$20,030	2	89.9%	1.69	1.1	\$33,903
Personal and Household Goods Repair and Maintenance [7]		5%	\$143	\$133	\$132,765	3.72	\$35,698	\$26,783	1	96.8%	1.69	0.8	\$45,332
Dry Cleaning and Laundry Services [7]		5%	\$143	\$133	\$132,765	3.17	\$41,936	\$25,028	2	89.9%	1.69	0.9	\$42,361
Vehicle Purchases (net outlay)	4.7%	100%	\$5,028	\$4,655									
Motor Vehicle and Parts Dealers		100%	\$5,028	\$4,655	\$4,654,506	8.79	\$529,742	\$42,196	13	96.8%	1.69	7.2	\$71,420
Gasoline and motor oil	3.7%	100%	\$3,970	\$3,675									
Gasoline Stations		100%	\$3,970	\$3,675	\$3,675,054	38.48	\$95,502	\$18,946	5	89.9%	1.69	2.7	\$32,067
Vehicle Maintenance and Repairs	1.2%	100%	\$1,324	\$1,226									
Repair and Maintenance [7]		100%	\$1,324	\$1,226	\$1,225,955	3.55	\$345,652	\$29,204	12	96.8%	1.69	6.8	\$49,430
Medical Services	1.1%	100%	\$1,192	\$1,103									
Ambulatory Health Care Services		40%	\$477	\$441	\$441,269	2.55	\$172,948	\$54,753	3	96.8%	1.69		
General Medical and Surgical Hospitals [7]		30%	\$358	\$331	\$330,952	2.63	\$125,832	\$58,054	2		1.69		
Nursing and Residential Care Facilities		30%	\$358	\$331 \$0	\$330,952	2.49	\$132,749	\$28,988	5	96.8%	1.69	2.6	\$49,064
Drugs	0.6%	100%	\$660	\$611									
Health and Personal Care Stores		100%	\$660	\$611 \$0	\$611,103	7.51	\$81,395	\$29,774	3	89.9%	1.69	1.5	\$50,394
Medical Supplies	0.2%	100%	\$200	\$186									
Health and Personal Care Stores		100%	\$200	\$186	\$185,580	7.51	\$24,718	\$29,774	1	89.9%	1.69	0.4	\$50,394
Entertainment Fees and Admissions	1.0%	100%	\$1,074	\$994									
Arts, Entertainment, & Recreation		100%	\$1,074	\$994	\$994,448	3.34	\$297,776	\$28,077	11	89.9%	1.69	5.6	\$47,523
Audio and Visual Equipment and Services	1.3%	100%	\$1,351	\$1,250									
Electronics and Appliance Stores		100%	\$1,351	\$1,250	\$1,250,324	9.53	\$131,264	\$26,708	5	89.9%	1.69	2.6	\$45,205
Pets, Toys, Hobbies, and Playground Equip.	1.1%	100%	\$1,149	\$1,064									
Sporting Goods, Hobby, and Musical Instrument Stores		40%	\$460	\$426	\$425,523	7.66	\$55,548	\$16,640	3	89.9%	1.69	1.8	\$28,164
Miscellaneous Store Retailers		40%	\$460	\$426	\$425,523	6.46	\$65,905	\$20,030	3	89.9%	1.69	1.7	\$33,903
Veterinary Services [7]		20%	\$230	\$213	\$212,761	2.81	\$75,619	\$34,148	2	96.8%	1.69	1.3	\$57,797

Table B-4
Estimated Average Annual Household Expenditures and Associated Employment Generation - 3 Bedroom
City of Pleasanton Housing Impact Fee, EPS #121115

Expenditure Category/ Business Type	% of Household Income Spent per Category [1]	% of Category Expenditure per Type of Business [2]	2011 Expenditures	2007 Expenditures [3]	2007 Expenditures per 1000 Households	Gross Receipts to Wages	2007 Total Wages	2007 Avg. Wage	# of Workers	% Forming HH [4]	Workers/ HH [5]	Total Worker HH	2007 Avg. HH Income
Calculation	a	ь	c = Income * a *	d = c * (inflation adjustment)	e = d * 1000	f	g = e/f	h	i = g/h	j	k	l=i*j/k	m = h * j
Other Entertainment Supplies, Equipment, and Services	0.5%	100%	\$568										
Sporting Goods, Hobby, and Musical Instrument Stores		85%	\$483	\$447	\$446,939	7.66	\$58,344	\$16,640	4	89.9%	1.69	1.9	\$28,164
Photographic Services [7]		15%	\$85	\$79	\$78,872	4.55	\$17,318	\$22,554	1	96.8%	1.69	0.4	\$38,174
Personal Care Products and Services	0.9%	100%	\$1,009	\$934									
Unspecified Retail		50%	\$505	\$467	\$467,231	6.46	\$72,365	\$20,030	4	89.9%	1.69	1.9	\$33,903
Personal Care Services [7]		50%	\$505	\$467	\$467,231	2.99	\$156,052	\$16,484	9	96.8%	1.69	5.4	\$27,901
Reading	0.2%	100%	\$171	\$158									
Sporting Goods, Hobby, and Musical Instrument Stores		100%	\$171	\$158	\$158,399	7.66	\$20,678	\$16,640	1	89.9%	1.69	0.7	\$28,164
Education	1.6%	100%	\$1,751	\$1,621									
Educational Services		100%	\$1,751	\$1,621	\$1,620,548	4.34	\$373,497	\$24,412	15	96.8%	1.69	8.8	\$41,319
Miscellaneous	1.0%	100%	\$1,095	\$1,013									
Accounting [7]		20%	\$219	\$203	\$202,639	1.98	\$102,253	\$33,564	3	96.8%	1.69	1.7	\$56,810
Architectural, Engineering, and Related [7,8]		20%	\$219	\$203	\$202,639	2.80	\$72,267	\$74,995	1	96.8%	1.69	0.6	\$126,934
Specialized Design Services [7]		20%	\$219	\$203	\$202,639	3.72	\$54,541	\$53,888	1	96.8%	1.69	0.6	\$91,209
Death Care Services [7]		20%	\$219	\$203	\$202,639	3.47	\$58,319	\$36,983	2	96.8%	1.69	0.9	\$62,596
Legal Services [7]		20%	\$219	\$203	\$202,639	2.76	\$73,380	\$85,734	<u>1</u>	96.8%	1.69	0.5	\$145,110
Total per 1,000 Market Rate Households									293			160.6	i

Per Table 4, the rental of a 3 Bedroom apartment requires a household income of

\$106,440

Source: 2010 Consumer Expenditure Survey, U.S. Bureau of Labor Statistics; 2007 Economic Census, U.S. Census Bureau; Census 2010; Economic & Planning Systems, Inc.

^[1] Percent of income spent per category is based on the 2010 Consumer Expenditure Survey data for households at this income level. Note that the sum of the categories included in this analysis is well below the total expenditures of households at this income level, and thus represents a conservative estimation of job creation and housing impacts. Expenditure categories not incorporated due to data constraints include taxes, housing and lodging, most utilities, tobacco, health insurance, personal/life insurance, cash contributions, and financing charges.

^[2] Where multiple business types are likely to provide goods and services in the expenditure category, EPS has estimated the proportion accruing to each business type.

^{[3] 2010} expenditures converted to 2007 dollars using the Consumer Price Index for the San Francisco Metropolitan Statistical Area from the Bureau of Labor Statistics.

^[4] BLS data indicates that 10.1% of retail/restaurant workers are age 16-19, but an average of only 3.2% of workers overall (applied to non-retail/restaurant industries). EPS has assumed that such young workers do not form their own households.

^[5] Based on 2011 ACS Census data for the City of Pleasanton.

^[6] Part of the Utilities, Fuels, and Public Services category, which also includes natural gas, electricity, and telephone services. Natural gas, electricity, and telephone services not estimated because data was not available in the 2007 Economic Census.

^[7] Alameda County data not available from 2007 Economic Census. Gross receipts to wages and 2007 average wage thus based on statewide data.

^[8] Note that average salary reported for architecture, engineering and related industries reflects the full range of employees within the industry, not solely professional and technical staff.

Table B-5
Representative Public Sector Employment and Wages [1]
City of Pleasanton Housing Impact Fee, EPS #121115

Occupation	2010 Estimated Govt. Empl.	2010 MSA Total HH [4]	Govt. Empl/ 1,000 MSA HH	Govt. Employee HH [2]	2012 Avg. Wage	Govt. Employee HH Income [2]	Income Category [3]
Protective Service Occupations	19,310	920,502	21	12.4	\$56,003	\$94,789	Above Med
Preschool Teachers, Except Special Education	4,910	920,502	5	3.2	\$33,650	\$56,955	Low (80%)
Kindergarten Teachers, Except Special Education	1,090	920,502	1	0.7	\$60,562	\$102,506	Above Med
Elementary School Teachers, Except Special Education	9,040	920,502	10	5.8	\$67,658	\$114,516	Above Med
Middle School Teachers, Except Special and Vocational Education	3,130	920,502	3	2.0	\$67,086	\$113,548	Above Med
Secondary School Teachers, Except Special and Vocational Education	7,990	920,502	9	5.1	\$67,226	\$113,785	Above Med
Special Education Teachers, Preschool, Kindergarten, and Elementary School Special Education Teachers, Middle	850	920,502	1	0.5	\$66,255	,	Above Med
School	210	920,502	0	0.1	\$67,933	\$114,981	Above Med
Special Education Teachers, Secondary School	530	920,502	1	0.3	\$74,836	\$126,665	Above Med
Teachers and Instructors, All Other	2,470	920,502	3	1.6	\$50,014	\$84,652	Above Med
Bus Drivers, Transit and Intercity	1,830	920,502	2	1.2	\$45,900	\$77,689	Med
Bus Drivers, School	1,310	920,502	<u>1</u>	0.8	\$32,304	\$54,677	Low (80%)
Total			57	33.8			

^[1] Not a comprehensive list of government employment. Rather a sampling of government jobs for which employment and wage data was available for the Alameda-Contra Costa County MSA from the Employment Development Department (EDD).

Sources: 2012 Occupational Employment Statistics, CA Employment Development Department; Economic & Planning Systems, Inc.

^[2] Assumes 1.69 workers per worker household based on the 2011 ACS Census, and that none of the occupations shown would be available to workers age 16-19.

^[3] See **Table 5**.

^[4] Includes household totals for both Alameda and Contra Costa County.

APPENDIX C:

Income Levels for Worker Households



Table C-1	Income Levels for Worker Households—Worker Household Generation per 1,000 Market-Rate Units— For-Rent Studio Apartment
Table C-2	Income Levels for Worker Households—Worker Household Generation per 1,000 Market-Rate Units— For-Rent 1-Bedroom Apartment
Table C-3	Income Levels for Worker Households—Worker Household Generation per 1,000 Market-Rate Units— For-Rent 2-Bedroom Apartment
Table C-4	Income Levels for Worker Households—Worker Household Generation per 1,000 Market-Rate Units— For-Rent 3-Bedroom Apartment

Table C-1 Household Generation per 1,000 Market Rate Units - Studio City of Pleasanton Housing Impact Fee, EPS #121115

Industry	Total Employees	HH [1]	Very Low (50%)	Low (60%)	Low (80%)	Med	Above Med
Retail							
Unspecified Retail	2	1	1	0	0	0	0
Food & Beverage Stores	21	11	0	11	0	0	0
Food Services and Drinking Places	56	30	30	0	0	0	0
Health and Personal Care Stores	3	2	0	0	2	0	0
General Merchandise	4	2	2	0	0	0	-
Furniture and Home Furnishings Stores	4	2	0	0	2	0	-
Building Material and Garden Equipment and Supplies Dealer		1	0	0	0	1	0
Electronics and Appliance Stores	7	4	0	4	0	0	
Clothing and Clothing Accessories Stores	6	3	3	0	0	0	
Motor Vehicle and Parts Dealers	8	5	0	0	0	5	
Gasoline Stations	4	2	2	0	0	0	
Sporting Goods, Hobby, and Musical Instrument Stores	7	4	4	0	0	0	-
Miscellaneous Store Retailers	6	3	3	0	0	0	
Nonstore Retailers	1	0	0	0	0	0	0
Arts, Entertainment, & Recreation	5	3	0	0	3	0	0
Medical/Health							
Ambulatory Health Care Services	3	1	0	0	0	0	
General Medical and Surgical Hospitals	2	1	0	0	0	0	1
Nursing and Residential Care Facilities	5	3	0	0	3	0	0
Social Assistance	2	1	0	1	0	0	0
Services							
Personal and Household Goods Repair and Maintenance	6	3	0	0	3	0	
Services to Buildings and Dwellings	10	6	0	6	0	0	-
Waste Management and Remediation Services	3	2	0	0	0	2	
Real Estate and Rental and Leasing	1	0	0	0	0	0	
Personal Care Services	6	4	4	0	0	0	
Dry Cleaning and Laundry Services	1	1	0	1	0	0	
Auto Repair and Maintenance	9	5	0	0	5	0	
Veterinary Services	2	1	0	0	1	0	-
Photographic Services	1	0	0	0	0	0	
Educational Services	6 2	3 1	0	3	0 1	0	
Accounting	1	0	0	0	0	0	
Architectural, Engineering, and Related Specialized Design Services	1	0	0	0	0	0	-
Death Care Services	1	1	0	0	0	1	-
Legal Services	1	0	0	0	0	0	
Government	<u>57</u>	<u>34</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>29</u>
Total HH Generated Per 1,000 Market-Rate Units	254	141	49	27	24	10	32
Total Income-Qualified HH Generated Per 100 Market-Rate U		10.9	4.9	2.7	2.4	1.0	0.0

^[1] Assumes 1.69 workers per worker household based on the 2011 ACS Census. Includes a 10.1% discount for retail and 3.2% discount for other industries to account for workers under age 20.
[2] Excludes above moderate-income households because these incomes are adequate to acquire market-rate housing.

Table C-2 Household Generation per 1,000 Market Rate Units - 1 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Industry	Total Employees	HH [1]	Very Low (50%)	Low (60%)	Low (80%)	Med	Above Med
Retail							
Unspecified Retail	3	2	2	0	0	0	0
Food & Beverage Stores	21	11	0	11	0	0	0
Food Services and Drinking Places	62	33	33	0	0	0	0
Health and Personal Care Stores	3	1	0	0	1	0	0
General Merchandise	4	2	2	0	0	0	0
Furniture and Home Furnishings Stores	4	2	0	0	2	0	0
Building Material and Garden Equipment and Supplies Dealer	2	1	0	0	0	1	0
Electronics and Appliance Stores	7	4	0	4	0	0	0
Clothing and Clothing Accessories Stores	6	3	3	0	0	0	0
Motor Vehicle and Parts Dealers	7	4	0	0	0	4	
Gasoline Stations	4	2	2	0	0	0	
Sporting Goods, Hobby, and Musical Instrument Stores	6	3	3	0	0	0	-
Miscellaneous Store Retailers	6	3	3	0	0	0	0
Nonstore Retailers	1	0	0	0	0	0	0
Arts, Entertainment, & Recreation	7	4	0	0	4	0	0
Medical/Health							
Ambulatory Health Care Services	3	2	0	0	0	0	
General Medical and Surgical Hospitals	2	1	0	0	0	0	0
Nursing and Residential Care Facilities	7	4	0	0	4	0	0
Social Assistance	4	2	0	2	0	0	0
Services							
Personal and Household Goods Repair and Maintenance	6	3	0	0	3	0	
Services to Buildings and Dwellings	11	6	0	6	0	0	
Waste Management and Remediation Services	3	2	0	0	0	2	
Real Estate and Rental and Leasing	1	0	0	0	0	0	
Personal Care Services	8	4	4	0	0	0	
Dry Cleaning and Laundry Services	1	1	0	1	0	0	
Auto Repair and Maintenance	9	5	0	0	5	0	
Veterinary Services	2	1	0	0	1	0	-
Photographic Services	1	0	0	0	0	0	
Educational Services	6	4	0	4	0	0	
Accounting	3	1	0	0	1	0	
Architectural, Engineering, and Related	1	0	0	0	0	0	-
Specialized Design Services	1	0	0	0	0	0	-
Death Care Services Legal Services	1 1	1 0	0	0	0	1	0
Government	<u>57</u>	<u>34</u>	<u>0</u>	<u>0</u>	<u>4</u>	1	<u>29</u>
Total HH Generated Per 1,000 Market-Rate Units	267	149	53	28	25	10	29
Total Income-Qualified HH Generated Per 100 Market-Rate U		11.6	5.3	2.8	2.5	1.0	0.0

^[1] Assumes 1.69 workers per worker household based on the 2011 ACS Census. Includes a 10.1% discount for retail and 3.2% discount for other industries to account for workers under age 20.
[2] Excludes above moderate-income households because these incomes are adequate to acquire market-rate housing.

Table C-3 Household Generation per 1,000 Market Rate Units - 2 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Industry	Total Employees	HH [1]	Very Low (50%)	Low (60%)	Low (80%)	Med	Above Med
Retail							
Unspecified Retail	3	2	2	0	0	0	0
Food & Beverage Stores	23	13	0	13	0	0	0
Food Services and Drinking Places	73	39	39	0	0	0	-
Health and Personal Care Stores	3	2	0	0	2	0	0
General Merchandise	5	3	3	0	0	0	
Furniture and Home Furnishings Stores	4	2	0	0	2	0	0
Building Material and Garden Equipment and Supplies Dealer	3	1	0	0	0	1	0
Electronics and Appliance Stores	8	4	0	4	0	0	-
Clothing and Clothing Accessories Stores	7	4	4	0	0	0	0
Motor Vehicle and Parts Dealers	11	7	0	0	0	7	
Gasoline Stations	5	3	3	0	0	0	0
Sporting Goods, Hobby, and Musical Instrument Stores	7	4	4	0	0	0	0
Miscellaneous Store Retailers	7	4	4	0	0	0	0
Nonstore Retailers	1	0	0	0	0	0	0
Arts, Entertainment, & Recreation	8	4	0	0	4	0	0
Medical/Health							
Ambulatory Health Care Services	3	2	0	0	0	0	0
General Medical and Surgical Hospitals	2	1	0	0	0	0	0
Nursing and Residential Care Facilities	7	4	0	0	4	0	0
Social Assistance	4	3	0	3	0	0	0
Services							
Personal and Household Goods Repair and Maintenance	8	4	0	0	4	0	0
Services to Buildings and Dwellings	12	7	0	7	0	0	0
Waste Management and Remediation Services	3	2	0	0	0	2	
Real Estate and Rental and Leasing	1	0	0	0	0	0	-
Personal Care Services	8	5	5	0	0	0	
Dry Cleaning and Laundry Services	1	1	0	1	0	0	
Auto Repair and Maintenance	11	6	0	0	6	0	-
Veterinary Services	2	1	0	0	1	0	-
Photographic Services	1	0	0	0	0	0	
Educational Services	10	6	0	6	0	0	-
Accounting	3	1	0	0	1	0	-
Architectural, Engineering, and Related	1	0	0	0	0	0	
Specialized Design Services	1	0	0	0	0	0	-
Death Care Services	1	1	0	0	0	1	-
Legal Services	1	0	0	0	0	0	0
Government	<u>57</u>	<u>34</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>29</u>
Total HH Generated Per 1,000 Market-Rate Units	302	168	62	33	29	12	29
Total Income-Qualified HH Generated Per 100 Market-Rate Units	[2]	13.6	6.2	3.3	2.9	1.2	0.0

^[1] Assumes 1.69 workers per worker household based on the 2011 ACS Census. Includes a 10.1% discount for retail and 3.2% discount for other industries to account for workers under age 20.
[2] Excludes above moderate-income households because these incomes are adequate to acquire market-rate housing.

Table C-4 Household Generation per 1,000 Market Rate Units - 3 Bedroom City of Pleasanton Housing Impact Fee, EPS #121115

Industry	Total Employees	HH [1]	Very Low (50%)	Low (60%)	Low (80%)	Med	Above Med
Retail							
Unspecified Retail	4	2	2	0	0	0	0
Food & Beverage Stores	26	14	0	14	0	0	0
Food Services and Drinking Places	89	48	48	0	0	0	0
Health and Personal Care Stores	4	2	0	0	2	0	0
General Merchandise	6	3	3	0	0	0	-
Furniture and Home Furnishings Stores	5	3	0	0	3	0	-
Building Material and Garden Equipment and Supplies Dealer	3	2	0	0	0	2	0
Electronics and Appliance Stores	8	4	0	4	0	0	
Clothing and Clothing Accessories Stores	8	4	4	0	0	0	-
Motor Vehicle and Parts Dealers	13	7	0	0	0	7	-
Gasoline Stations	5	3	3	0	0	0	
Sporting Goods, Hobby, and Musical Instrument Stores	8	4	4	0	0	0	-
Miscellaneous Store Retailers	9	5	5	0	0	0	
Nonstore Retailers	1	0	0	0	0	0	0
Arts, Entertainment, & Recreation	11	6	0	0	6	0	0
Medical/Health							
Ambulatory Health Care Services	3	2	0	0	0	0	0
General Medical and Surgical Hospitals	2	1	0	0	0	0	0
Nursing and Residential Care Facilities	8	5	0	0	5	0	0
Social Assistance	6	3	0	3	0	0	0
Services							
Personal and Household Goods Repair and Maintenance	8	5	0	0	5	0	
Services to Buildings and Dwellings	14	8	0	8	0	0	-
Waste Management and Remediation Services	3	2	0	0	0	2	
Real Estate and Rental and Leasing	1	0	0	0	0	0	
Personal Care Services	9	5	5	0	0	0	
Dry Cleaning and Laundry Services	2	1	0	1	0	0	
Auto Repair and Maintenance	12	7	0	0	7	0	
Veterinary Services	2	1	0	0	1	0	-
Photographic Services	1	0	0	0	0	0	
Educational Services	15	9	0	9	0	0	
Accounting	3	2	0	0	2	0	
Architectural, Engineering, and Related	1 1	1	0	0	0	0	-
Specialized Design Services	1 2	-	0	-	-	-	-
Death Care Services Legal Services	1	1 0	0	0	0	1	
Government	<u>57</u>	<u>34</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>29</u>
Total HH Generated Per 1,000 Market-Rate Units	351	195	74	40	34	14	29
Total Income-Qualified HH Generated Per 100 Market-Rate U		16.2	7.4	4.0	3.4	1.4	0.0

^[1] Assumes 1.69 workers per worker household based on the 2011 ACS Census. Includes a 10.1% discount for retail and 3.2% discount for other industries to account for workers under age 20.
[2] Excludes above moderate-income households because these incomes are adequate to acquire market-rate housing.