7. Public Health

The Public Health chapter of the Existing Conditions Report reviews a subset of community-level indicators from the Healthy Development Measurement Tool (HDMT; www.TheHDMT.org) that are known to influence individual and population-level health. Over thirty indicators in six overarching domains (environmental stewardship, sustainable and safe transportation, access to goods and services, adequate and healthy housing, health economy and social cohesion) are reviewed in that analysis.

The following tables provide a qualitative assessment of the performance of the three Plan Alternatives in relation to the HDMT indicators included in the Existing Conditions Report. Many of the indicators (or parallel indicators) are assessed elsewhere in the Alternatives analysis. They are summarized here in an effort to provide a composite picture of the health-related social and environmental impacts within the Plan Area. Overall, the vast majority of impacts are dependent on the extent to which mitigations are implemented. Suggestions for mitigations are provided below.

Health-related Element	Alternative I	Alternative 2	Alternative 3
Environment	 Commingling of industrial and residential uses will lead to additional conflicts (e.g., noise, trucks, air quality). Significant number of new mobile and stationary sources of air pollution and noise exposures throughout the Area. Good-to-excellent shoreline and open space access. 	 Reduced land use conflicts between new/existing residents and industrial uses due to more distinct separation of uses. Fewer new environmental exposures because of more limited increase in residential uses. Good shoreline and open space access. 	 Phasing out of industrial uses and existing residential/industrial conflicts. Over time, fewer exposures for existing and new residents. Lowest per-capita project VMT of the alternatives, but potential VMT increases regionally because businesses have further to go to meet their needs. Good-to-excellent shoreline and open space access.
Sustainable and Safe Transportation	 New residents will generate additional automobile traffic. Majority of Plan Area requires extensive ped/bike and transit improvements to accommodate new population. Increased intensity of uses with co-mingling of industrial/residential will increase collision frequencies unless countermeasures are instituted. Unlikely that density increase will bring transit improvements. 	 New residents will generate additional automobile traffic. More limited ped/bike and transit improvements necessary as new housing is focused primarily where it already exists. Reduced risk of injuries with more clear separation of land uses. Unlikely that density increase will bring transit improvements. 	 New residential/retail uses and substantial increase in densities necessitate significant improvements in transportation and street infrastructure. With greatest increase in density, will see significant increase in automobile traffic, though greatest reduction in truck traffic. Density and intensity of use will increase collision frequencies unless countermeasures are instituted.

Table 7.1: Summary of Health-related Impacts of Each Alternative

Health-related	Alternative I	Alternative 2	Alternative 3
Element			
Sustainable and Safe Transportation (continued)	- Uneven access across the	- Locating new housing	 Improvements and phasing out of industrial uses will do the most to improve ped/bike and transit conditions, decrease the overall proportion of auto trips (assuming transit improvements) and reduce the risk for injuries. Increased density and demand more likely to bring increase in transit service provision. Alternative may do the
Goods and Services	 Plan Area. Locating housing in Central West takes advantage of existing services. East subarea has fewest retail/public services for new residents (where greatest increase is expected). New regional-serving retail in the East may help fill gaps. 	 in the Central West subarea takes advantage of existing conditions and supports businesses in the subarea that will serve new residents. Some new retail in West may support new residents in that subarea. 	 most to improve baseline access for residents. Increase in densities will necessitate improvements in transportation and street infrastructure that enhance access to goods and services both within the Plan Area and to areas north of the Plan Area. With density increases, more likely that new neighborhood-serving businesses will locate in the area.
Adequate and Healthy Housing	 Significant increases in residential densities, especially in Central East and East. New development is likely to induce some increases in the value of adjacent housing units, much of which is renter-occupied, potentially resulting in a moderate potential for displacement of existing residents. Unclear whether housing contribution will contribute to below market needs of wider Oakland community. 	 Very moderate increases in residential densities in West and Central West. New development is likely to induce moderate increases in the value of adjacent housing units, much of which is renter- occupied. Smaller potential for displacement. Unclear whether housing contribution will contribute to below market needs of wider Oakland community. 	 Most significant increases in densities. New development is likely to induce strongest increases in the value of adjacent housing units, a vast majority of which is renter-occupied in both the West and Central West subareas. Highest risk for displacement of existing residents. Greater opportunities for affordable housing though unclear whether housing contribution will contribute to below market needs of wider Oakland community.

Health-related Element	Alternative I	Alternative 2	Alternative 3
Jobs and Livelihood	 Significant elimination of jobs paying at/above self-sufficiency wages. Replacement of existing jobs with lower-paying retail jobs. Plan Area resident income levels to diversify though will skew more towards moderate-higher levels. 	 Least elimination of existing jobs paying at/above self- sufficiency wages. Distribution of housing creates the most income diversification. 	 Greatest elimination of jobs paying wages at/above self- sufficiency. Some provision of office uses that likely pay higher wages. Plan Area resident income levels to diversify though will skew more towards moderate-higher levels.
Social Cohesion	 Ped/bike and streetscape improvements and increased densities will bring more "eyes on the street." Commingling of uses throughout the Area and limited buffering of those uses may inhibit reductions in crime. 	 Location of new housing alongside existing housing creates a more cohesive community. More focused ped/bike and streetscape improvements and increased densities will bring more "eyes on the street." Phasing out of industrial uses in the West subarea contribute to a greater buffering of uses that could help reduce crime. 	 Alternative goes the farthest to reduce risk factors for crime, including by increasing densities significantly and likely bringing the types of streetscape improvements that bring more people onto the streets. Phasing out and conversion of industrial uses in the West and East subareas helps eliminate some of the uses that are often associated with higher crime areas because streets are deserted at night.

Health-Related Element	West	Central-West	Central-East	East
Environment		uses throughout the subare	as in this Alternative does little to mitigate the	
(Proximity to busy roadways, truck routes, stationary sources of air pollution, environmental contamination, noise, shoreline access and open space)	There is no provision for additional housing in this subarea. As such no new exposures in this subarea are identifiable. Impacts for existing residents remain. Open space and shoreline access will remain good in the subarea under this Alternative.	 will face environmental by pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well air pollution and noise stemmand freight traffic, as well and the stemmand freight traffic, as well and traffic, as well and the stemmand freight traffic, a	Il be located in this subarea, new residents burdens particularly from traffic-related air ning from the I-880 freeway, arterial streets, I as from proximity to stationary sources of emming from industrial uses in the Area. It in this area will be within 1,000 feet or less 500 feet of truck routes, within close burces of air pollution, and fully within a high important to note that part of the Central hich helps mitigate air quality emissions. s remain. Placing an industrial business park treas increases potential land use conflicts hitigation technologies exist to assess and use for new residents. These technologies ent feasible, to accommodate new residential te include limiting or re-routing trucks away restrictions or traffic calming), incorporating th filtration) systems, incorporating sound using away from the freeway. horeline remains public, shoreline and open e for existing and new residents and workers of a streetscape improvements.	This Alternative calls for a considerable expansion of housing in this area, thereby creating a more sizable impact than in the preceding subareas. In addition to the impacts described for the Central sub- areas, the East subarea is also known to have significant soil contamination. Until it is fully mitigated, such contamination will pose significant health risks for new residents. New residents and workers in this area will have excellent shoreline and open space access.

Table 7.2: Impacts of Alternative I on Health-related Indicators

Health-Related Element	West	Central-West	Central-East	East
Sustainable and Safe Transportation (Vehicle ownership, commute mode share, proximity to transit, pedestrian and bicycle networks, traffic-related collisions)	Since no changes of use are anticipated in this subarea, few indicators of transportation are likely to change. Vehicle ownership levels, mode share, and proximity to transit are likely to remain the same, though new traffic generated in/by adjacent subareas may spillover into the West subarea.	households and commercial/off number of ped, bike and transit extent to which the current mod improvements implemented. A very poor, significant transporta Overall, there is little detail on the Estuary. Almost all housing built in the G of AC transit (note that this doe housing will be within ½-mile G Given the significant increase in and ped/bike amenities will be the most extensive amount of ped/c transportation. With few house support pedestrians and cyclists With respect to ped/bike injuries Increased density will also increase improvements to the pedestrian Management (TDM), or a street throughout the Central West, Co given new office and retail uses Placing new housing close to ex- ped/bike improvements in a wa Improvement Financing (DIF), to generate these improvements	ice uses will generate additional trips in the area (though overall le split changes is dependent on s the current ped/bike network tition improvements will be nec- the level of ped/bike improvem Central West and Central East s s not reflect level or quality of of BART. The East subarea has n residential and retail uses in the nost acutely felt by residents an ike and transit improvements to holds currently residing in the a s, the commingling of residenti than if residential and industria ease collision frequency withou and bike network, including tra- tscape improvement plan, ped/be entral East and East subareas, p adjacent to housing. tisting housing (as in the Centra y that supports existing as well the greater the amount of devel . Without significant increases	he East subarea, the lack of transit service nd workers. This area also requires the

Health-Related Element	West	Central-West	Central-East	East
Access to Goods and Services (Schools, child care, parks, libraries, grocery stores, banks/ credits unions)	The West subarea has the worst access to all forms of public/retail goods and services when compared to other subareas. As there are no provisions for additional housing in this subarea, there are no new impacts stemming from a lack of services. Poor access remains however for existing residents.	Central West subarea households have the best proximity-based access to all forms of retail/public goods and services. As this Alternative locates new housing in this subarea, proximity to these services will remain good for these new residents (though quality and density of services is to be determined). Locating new housing in this subarea both helps to take advantage of existing conditions and support businesses	Proximity to retail/goods and services subareas are currently comparable in both areas (especially the East access is more limited in the Central As far fewer residents currently li East Subarea), there is currently li capacity that can support future. Veregional serving retail in the East and services will increase for new However, it is unknown what typ spaces, and whether new retail with Schools access will continue to be	e. Proximity to schools is limited subarea), and grocery store tral East. we in these areas (especially the imited retail/public services With a significant increase in subarea, access to retail goods and existing residents. es of retail will locate in these ill serve daily needs.
Adequate and Healthy Housing (Density, cost burden, overcrowding, tenure)	There is no provision for additional housing in this subarea. Housing cost burden, overcrowding and tenure breakdown are unlikely to shift.	in the subarea that are serving new residents. The additional supply of housing in this subarea under this Alternative will increase current densities. However, new development (particularly if it is ownership housing) is likely to induce some increases in the value of adjacent housing units, much of which is renter-occupied. Notably, this subarea has the greatest number of existing residents throughout the Plan Area. The new housing stock will do little to alleviate existing overcrowding and may negatively impact housing cost burden in the subarea.	areas. The additional supply of housing in this subarea under this Alternative will increase current densities. Given that the majority of housing in this subarea is owner-occupied, new development may not create significant risks for existing residents. However, growth in this subarea may create displacement risks for renter households in the adjacent Central West subarea. Notably, there is a high degree of overcrowding in this subarea (overcrowding is often strongly correlated with ownership- housing).	Under this Alternative, the East subarea would experience the greatest increase in residential units (and densities) when compared to other subareas. Given the few existing residents in the subarea, there would be a small impact on those subarea households. Increased housing in this subarea may compound development pressures associated with new housing development in the Central East and Central West. Collectively, these pressures may increase housing cost burden and displacement risk among existing households in those subareas.

Health-Related Element	West	Central-West	Central-East	East
Adequate and Healthy Housing (continued) (Density, cost burden, overcrowding, tenure)		Households in this subarea are currently the most cost-burdened when compared to other subareas. As a result, there is some potential for rent increases and displacement risk among existing residents. It is also unclear whether new housing will contribute to below market needs of the wider Oakland community. Requiring the development of affordable housing, especially with diverse unit-size mix may help alleviate both overcrowding and housing cost burden.		It is also unclear whether new housing will contribute to below market needs of the wider Oakland community.
Jobs and Livelihood (Income diversity, self- sufficiency)	Under this Alternative, jobs in the subarea will not be eliminated. Given that jobs in the area provide a high degree of income self- sufficiency for workers, the preservation of these jobs will help maintain higher paying jobs for Oakland. The income diversity of residents will likely be unaffected as no new housing is intended in the subarea.	The Alternative calls for the elimination of a limited number of employment-generating retail uses in the Park Street Triangle. Generally speaking, retail uses provide wages below self- sufficiency levels. New development in the area will help to diversify the income distribution of current residents in the Central West subarea.	Replacement of a large, low- density industrial uses in this subarea with a higher density industrial business park is likely to generate a net gain in medium-to-low skilled industrial jobs that typically provide jobs at or above self- sufficiency wages. New waterfront development is also likely to diversify income levels within the subarea, which is currently comprised of almost entirely low to moderate income households.	Under this Alternative, there will be a dramatic reduction of industrial uses and accompanying employment, and especially of low to moderately skilled jobs that typically provide wages at or above self-sufficiency levels. In contrast, the proposed retail uses and accompanying jobs will likely bring wages far below current levels. With very few households currently residing in the subarea, the introduction of new waterfront housing will not diversify income levels, but create a higher income area within the area overall.

Health-Related Element	West	Central-West	Central-East	East
Social Cohesion (Violent and property crime)	how developmen Known risk facto volume roadways increasing popula	t under this Alternative is structured, and t rs for crime in the Planning Area include s and noise levels, and a relatively low por ation densities throughout the Plan area, th reduced crime. However, the current con	he types of mitigations that will be poor pedestrian and bicycle environ pulation density. By applying ped/ ere will be greater "eyes on the stru-	nments, freeway on- and off-ramps, high bike and streetscape improvements, and eet", which helps create more cohesive

Table 7.3: Impacts of Alternative 2 on Health-related Indicators

Health-Related Element	West	Central-West	Central-East	East
Environment (Proximity to busy roadways, truck routes, stationary sources of air pollution, environmental contamination, noise, shoreline access and open space)	A distinct separation of uses betw minimize the potential for future of Limited amounts of new housing will be located here. New residents will face environmental burdens particularly from traffic-related air pollution and noise stemming from the I-880 freeways, arterial streets, and freight traffic, as well as from proximity to stationary sources of air pollution and noise stemming from intense industrial uses in the Area. In contrast to the other subareas, a smaller portion of the West subarea is within close proximity to environmental hazards, making certain areas more suitable for housing.	reen industrial and residential uses in conflicts between neighbors. Impacts in this subarea are comparable to Alternative 1. As some new housing will be located in this subarea, new residents will face environmental burdens particularly from traffic- related air pollution and noise stemming from the I-880 freeways, arterial streets, and freight traffic, as well as from proximity to stationary sources of air pollution and noise stemming from intense industrial uses in the Area.	There is no provision for additio such no new residential exposure Impacts for existing residents re- residential area north of the R&I side of Elmwood Avenue. Mitig impacts generated by the R&D i protect a population that would b highway and light industrial uses area will have less exposure to h However, mitigations can be app and the green industry cluster to conditions for workers, as well a residential uses. Environmental described above in the analysis of Unless focused improvements an	nal housing in this subarea. As es in this subarea are identifiable. main, particularly in the D incubator space on the south gations alleviating the new ncubator space are essential to become wedged between a s. Workers commuting into the azards than residents would. blied to the R&D incubator space improve air quality and noise s to buffer from adjacent mitigation technologies are of Alternative 1. re made, open space and shoreline or be impeded by the build out of

Health-Related Element	West	Central-West	Central-East	East
Environment (continued) (Proximity to busy roadways, truck routes, stationary sources of air pollution, environmental contamination, noise, shoreline access and open space)	It is important to note that part of the Central Estuary area is upwind which helps mitigate air quality emissions; however noise emissions remain. Assuming access to the shoreline remains public, shoreline and open space access will improve for existing and new residents through a new park as well as development impact fees that may contribute to park and streetscape improvements.	Any new housing located in this area will be within 1,000 feet or less of busy roadways, within 500 feet of truck routes, within close proximity to stationary sources of air pollution, and within a high noise environment. It is important to note that part of the Central Estuary area is upwind which helps mitigate air quality emissions; however noise emissions remain. Assuming access to the shoreline remains public, shoreline and open space access will improve for existing and new residents through a new park as well as development impact fees that may contribute to park and streetscape improvements.		
Sustainable and Safe Transportation (Vehicle ownership, mode share, proximity to transit, pedestrian and bicycle networks, traffic-related collisions)	is likely that there will be addition well as a greater number of ped/b (though overall mode share may b which the current mode split char ped/bike and transit improvement ped/bike network and connectivit poor, significant transportation in increase walking and biking. Over	ike and transit trips in the area be unchanged). The extent to ages is dependent on the extent of is implemented. As the current y to surrounding areas is very aprovements will be necessary to erall, there is little detail on the hat would result from development in the West area are within close asit. The Central West area has	While no new housing is propose industrial and R&D businesses la increased number of employees. Without significant transit and pe commute trips may be made prime new uses may help generate imp infrastructure, or could implement mitigate impacts on existing and With respect to ped/bike injuries residential and industrial uses in safer conditions for walking and	bocating in these subareas, an will be commuting into the area. ed/bike improvements, these narily by car. However, these rovements in transportation nt TDM measures in an effort to new residents. , the more distinct separation of this Alternative helps to create

Health-Related Element	West	Central-West	Central-East	East
Sustainable and Safe Transportation (continued)	Focusing new housing where it al housing (as in the West and Centr focus ped/bike improvements as y supports existing as well as new r increase collision frequency with the greater the amount of develop available to generate these improv increases in density, it is unlikely substantially enough to alter the m	al West subarea) would help to well as transit service in a way that esidents. Increased density will but countermeasures. With DIFs, ment, the more money there is vements; but without significant that transit services will increase node share of commuters.		
Access to Goods and Services (Schools, child care, parks, libraries, grocery stores, banks/ credits unions)	The West subarea currently has the worst access to all forms of goods and services when compared to other subareas. With addition of significant residential uses, access may continue to be limited for residents. However, expected increase in retail uses in the area could improve access to daily needs. Furthermore, the part of the West subarea where increases in residential uses are planned is adjacent to the Central West subarea, where retail/goods proximity is much better. The density of residents in the same area may help to bring retail uses into the area. Proximity to public schools in this subarea will remain limited for new residents. Depending on the demand, increased transit and ped/bike improvements may help enhance access to existing schools.	Central West subarea households currently have the best proximity-based access to all forms of retail/public goods and services. As this Alternative locates new housing in this subarea, proximity to these services will remain good for these new residents (though quality and density of services is unknown). Locating new housing in this subarea both helps to take advantage of existing conditions and support businesses in the subarea that will serve new residents. Proximity to local public schools access remains excellent in the subarea.	subareas are currently co limited in both areas (esp store access is more limited As there are no provision	ns for additional housing in this subarea, s stemming from a lack of services. Poor

Health-Related Element	West	Central-West	Central-East	East
Adequate and Healthy Housing (Density, cost burden, overcrowding, tenure)	The additional supply of housing in these two subareas under this Alternative will increase current densities. However, new development (particularly if it is ownership housing) is likely to induce some increases in the value of adjacent housing units, a vast majority of which is renter-occupied. Notably, the Central West subarea has the greatest number of existing residents throughout the Plan Area. The new housing stock will do little to alleviate existing overcrowding and may negatively impact housing cost burden in these subareas. Households in these subareas are currently the most cost-burdened when compared to other subareas. As a result, there is some potential for rent increases and displacement risk among existing residents. It is also unclear whether new housing will contribute to below market needs of wider Oakland community. Requiring the development of affordable housing, especially with diverse unit-size mix may help alleviate both overcrowding and		There is no provision for additional housing in these subareas. Housing cost burden, overcrowding and tenure breakdown are unlikely to shift under this Alternative.	
Jobs and Livelihood (Income diversity, self- sufficiency)	 housing cost burden. There will be a significant reduction of employment, and of the viability of a strong cluster of "green" food industries in this subarea. One approach to mitigating the loss of these businesses is to somehow incentivize their moving into the new green industry cluster in the East subarea. New development in the area will help to diversify the income distribution in the West subarea. 	The Alternative calls for the elimination of a limited amount of employment-generating retail uses in the Park Street Triangle. Generally speaking, retail uses provide wages below self- sufficiency levels. New development in the area will help to diversify the income distribution in the Central West subarea.	This Alternative calls for the replacement of jobs paying wages at/above self- sufficiency with jobs that also pay wages at/above self- sufficiency (from industrial to R&D incubator). However, it is likely that blue-collar jobs will be replaced by a mix job types that may not serve a displaced worker population in the short-term. Income diversity of residents will be unaffected as no new residential development is planned.	This Alternative goes the farthest to support the retention of jobs paying at/above self- sufficiency wages. Income diversity of residents will be unaffected as no new residential development is planned.

Health-Related Element	West	Central-West	Central-East	East	
Social Cohesion (Violent and property crime)	how development Known risk factor volume roadways the area in compa community. Simi may contribute to	nning Area as a whole has high violent crime under this Alternative is structured, and the t rs for crime in the Planning Area include poor and noise levels, and a relatively low popula rison to Alternatives 1 and 3, the location of n larly, ped/bike and streetscape improvements more "eyes on the street". Finally, the phasi that could promote a more cohesive commun	ypes of mitigations that will be r pedestrian and bicycle environ tion density. Though there is si new housing alongside existing s could be applied in a more foc ng out of industrial uses in the V	applied throughout the Planning A ments, freeway on and off-ramps gnificantly less residential develo housing may help create a strongo used way. Collectively, these cha	Area. , high pment in er nges

Table 7.4: Impacts of Alternative 3 on Health-related Indicators

Health-Related Element	West	Central-West	Central-East	East
Environment (Proximity to busy roadways, truck routes, stationary sources of air pollution, environmental contamination, noise, shoreline access and open space)	residents will face environment stemming from the I-880 free stationary sources of air pollu Almost all new housing locate or less of busy roadways, with of air pollution, and within a H With the phasing out of indust traffic and noise generated fro note that part of the Central Es however noise emissions rema Feasible environmental mitigat hazards for new residents. Th new residential growth in the uses (via restrictions or traffic incorporating sound barriers, a Assuming access to the shored	ntal burdens particularly from tra ways, arterial streets, and freight tion and noise stemming from in ed in this area (slightly less for W nin 500 feet of truck routes, within high noise environment. trial uses in this Alternative, exis m industrial activities may be eli- stuary area is upwind which help ain. ttion technologies also exist to as ese technologies should be used, Area. These include limiting or calming), incorporating indoor a and orienting housing away from line remains public, shoreline and d workers through a new park as	Vest subarea) will be within 1,000 feet n close proximity to stationary sources ting conflicts stemming from the truck minated over time. It is important to s mitigate air quality emissions; sess and mitigate freeway-related to the extent feasible, to accommodate re-routing trucks away from residential ir ventilation (with filtration) systems,	This Alternative calls for a considerable expansion of housing in this area, thereby creating a more sizable impact than in the preceding subareas. In addition to the impacts described for the other subareas, the East Planning area is also known to have significant soil contamination. Until it is fully phased out and mitigated, such contamination will be pose significant health risks for new residents. New residents and workers in this area will have excellent shoreline and open space access.

Health-Related Element	West	Central-West	Central-East	East		
Sustainable and Safe Transportation (Vehicle ownership, mode share, proximity to transit, pedestrian and bicycle networks, traffic-related collisions)	The new residential and retail uses and the substantial increase in densities in the Planning Area under this Alternative are likely to necessitate significant improvements in transportation and street infrastructure. These improvements as well as the gradual phasing out of industrial uses under this Alternative are likely to do the most (in contrast to the other Alternatives) to improve ped/bike and transit conditions and to decrease the overall proportion of auto trips in the area. With this level of density, there will be the greatest number of new cars in the subarea; however, there is also the greatest amount of funding available via DIFs that can be used for transportation and streetscape improvements. There are varied levels of proximity to transit throughout the area, but in the West and East, where proximity is worst, the increased population density and demand may lead to a need to increase in service provision that compensates for poor proximity. Additionally, the phasing out of industrial uses in the area will remove many of the pedestrian and bike hazards that currently exist in the Planning Area. Some potential conflicts still remain, particularly around retail and incubator spaces in the Central East and East subareas, but these could be mitigated through traffic calming and TDM strategies. Increased density, however, even with no industrial uses, will increase collision frequency without countermeasures.					
Access to Goods and Services (Schools, child care, parks, libraries, grocery stores, banks/ credits unions)	Current proximity to goods and services is most limited in both the West subarea, and somewhat better in the Central East subarea, and best in the Central West subarea. While the Alternative indicates the placement of additional households in areas that currently have reasonable to limited access to goods and services, this Alternative may do the most to improve baseline access for existing and new residents. First, moderate increases in retail are anticipated in the East Subarea, which (depending on the types of service provided) will help support all residents of the Plan Area. More importantly, however, while provision of goods and services may not increase within the Plan Area substantially, the substantial increase in densities in the Plan Area under this Alternative are likely to necessitate significant improvements in transportation and street infrastructure that will enhance access to goods and services both within the Plan Area and to areas north of the Plan Area. These improvements as well as the gradual phasing out of industrial uses under this Alternative are likely to do the most (in contrast to the other Alternatives) to improve ped/bike and transit conditions that support safer access to daily needs. With this level of density, there is the greatest amount of funding available via DIFs that can be used for transportation and streetscape improvements. Finally, with such a large increase in population, it is likely that neighborhood serving retail may be more likely to locate into the area.					

Health-Related Element	West	Central-West	Central-East	East	
Adequate and Healthy Housing	The additional supply of housing in throughout the Plan Area under this Alternative will increase current densities significantly. However, new development (particularly if it is ownership housing) is likely to induce some increases in the value of adjacent housing units, a vast majority of which is renter-occupied in both the West and Central West subareas. Notably, the Central West subarea has the greatest number of existing residents throughout the Plan Area.				
(Density, cost burden, overcrowding, tenure)	The new housing stock will do little to alleviate existing overcrowding and may negatively impact housing cost burden in the West and Central West subareas. Households in these subareas are currently the most cost-burdened when compared to other subareas. As a result, there is some potential for rent increases and displacement risk among existing residents. It is also unclear whether new housing will contribute to below market needs of wider Oakland community.				
	Importantly, available parcel sizes and the level of allowable density throughout the Plan Area may allow for a significant expansion including affordable housing, particularly in the Central East subarea. Requiring the development of affordable housing, especially with diverse unit-size mix may help alleviate both overcrowding and housing cost burden.				
Jobs and Livelihood (Income	subarea will likely provide would be suited for these ne	jobs that pay self-sufficiency wag	es; however, it is unknown wheth	f-sufficiency. Office uses in the East er these displaced industrial workers additional jobs, though retail jobs often	
diversity, self- sufficiency)	Given, the significant amou though skew more towards		ghout the Plan area, it is likely the	at resident income levels may diversify,	
Social Cohesion (Violent and property crime)	how development under this Known risk factors for crim	s Alternative is structured, and the	e types of mitigations that will be or pedestrian and bicycle environ	extent to which crime decreases relates to applied throughout the Planning Area. ments, freeway on and off-ramps, high	
	types of streetscape improve	ements that bring more people on on to Alternatives 1 and 2) helps effective	to the streets. Finally, the phasing	ities significantly and likely bringing the g out of industrial uses in the West and often associated with higher crime areas	