

**Appendix 4.10A Compliance Checklist Greenhouse Gas  
Analysis. SF Planning Department. May  
9, 2012. Case No. 2010.0515E.**

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# SAN FRANCISCO PLANNING DEPARTMENT

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## Compliance Checklist Greenhouse Gas Analysis

### A. GENERAL PROJECT INFORMATION:

Instructions: Complete Sections A and B, below. Generally, only projects within the City and County of San Francisco can apply for a determination of consistency with the GHG Reduction Strategy.

Date: May 9, 2012

Project name: Potrero HOPE SF Master Plan EIR Case No: 2010.0515E

Project address and block and lot: 1095 Connecticut Street, Cross Street 25<sup>th</sup> Street, San Francisco.  
Block/Lot: 4167/004, 004A, 4220A, 4222A, 4285B, 4223/001

MEA planner: Nannie Turrell

**Brief Project description:** The San Francisco HOPE SF Program, a partnership between the Mayor's Office of Housing and the San Francisco Housing Authority (SFHA), proposes to redevelop the Potrero Terrace and Annex (Potrero) housing developments as a part of its program to revitalize distressed public housing developments in San Francisco. The proposed project would replace all 620 existing housing units; incorporate additional affordable housing and market-rate homes into the community; and add amenities such as open space, retail opportunities, and neighborhood services. Including the 620 public housing units, the proposed project would build up to 1,700 units.

Two build alternatives have been identified for the proposed project. Alternative 1: Reduced Development Alternative, would result in development of the same land uses as the proposed project, but would only include up to 1,280 total housing units. Alternative 2: Housing Replacement Alternative would simply replace the existing housing at the project site using the same building pattern and site plan that currently exists. This alternative would reconstruct 620 affordable housing units.

### B. COMPLIANCE CHECKLIST TABLE

Complete and attach to this form the appropriate compliance table by determining project compliance with the identified regulations and providing project-level details in the discussion column. Please note that Table 1 applies to Private Development Projects, Table 2 applies to Municipal Projects, and Table 3 is for plan-level analysis. Projects that do not comply with an ordinance/regulation may be determined to be inconsistent with San Francisco's qualified GHG reduction strategy.

Compliance Checklist Table attached:  Table 1. Private Development

Table 2. Municipal Project (for transportation improvements under the Community Plan)

Table 3. Area Plan for \_\_\_\_\_  
(specify area)

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**C. DETERMINATION OF COMPLIANCE WITH CITY'S GHG REDUCTION STRATEGY**

Project Complies with San Francisco's *Strategies to Address Greenhouse Gas Emissions*

Project Notes:

The proposed project and its alternatives would comply with all applicable requirements identified in the City's *Strategies to Address Greenhouse Gas Emissions* Compliance Checklist.

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Project Does Not Comply

If Project does not comply, provide discussion of non-compliant features:

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Planner Name: \_\_\_\_\_ Date of Determination: \_\_\_\_\_

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# SAN FRANCISCO **PLANNING DEPARTMENT**

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## **Compliance Checklist Table for Greenhouse Gas Analysis: Table 1. Private Development Projects**

### **A. GENERAL PROJECT INFORMATION:**

**Date:** October 10, 2012

**Project name:** Potrero HOPE SF Master Plan EIR

**Case No:** 2010.0515E

**Project address and block and lot:** 1095 Connecticut Street, Cross Street 25<sup>th</sup> Street, San Francisco.  
Block/Lot: 4167/004, 004A, 4220A, 4222A, 4285B, 4223/001

**Compliance Checklist Prepared By:** Matthew Berke, Atkins

**Date:** October 10, 2012

### **B. COMPLIANCE CHECKLIST TABLE**

Projects that do not comply with an ordinance/regulation may be determined to be inconsistent with San Francisco's Greenhouse Gas Reduction Strategy.



# SAN FRANCISCO PLANNING DEPARTMENT

**Table 1. Regulations Applicable to Private Development Projects**

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<b>Transportation Sector</b>					
Commuter Benefits Ordinance (San Francisco Environment Code, Section 421)	<p>All employers of 20 or more employees must provide at least one of the following benefit programs:</p> <p>1. A Pre-Tax Election consistent with 26 U.S.C. § 132(f), allowing employees to elect to exclude from taxable wages and compensation, employee commuting costs incurred for transit passes or vanpool charges, or</p> <p>(2) Employer Paid Benefit whereby the employer supplies a transit pass for the public transit system requested by each Covered Employee or reimbursement for equivalent vanpool charges at least equal in value to the purchase price of the appropriate benefit, or</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>Due to the programmatic nature of the project at this stage, it is not known which types of commercial uses might occupy the non-residential land uses proposed. However, if the future uses would employ more than 20 people, the project would comply with relevant commuter benefit programs.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	(3) Employer Provided Transit furnished by the employer at no cost to the employee in a vanpool or bus, or similar multi-passenger vehicle operated by or for the employer.				
Emergency Ride Home Program	All persons employed in San Francisco are eligible for the emergency ride home program.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	People employed at the project site would be eligible for the Emergency Ride Home Program.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Transportation Management Programs (San Francisco Planning Code, Section 163)	Requires new buildings or additions over a specified size (buildings >25,000 sf or 100,000 sf depending on the use and zoning district) within certain zoning districts (including downtown and mixed-use districts in the City's eastern neighborhoods and south of market) to implement a Transportation Management Program and provide on-site transportation management brokerage services for the life of the building.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Development of proposed retail should not exceed 25,000 square feet. The Transportation Management Programs would not apply.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Transit Impact Development Fee (San Francisco Planning Code, Section 411)	<p>Establishes the following fees for all commercial developments. Fees are paid to DBI and provided to SFMTA to improve local transit services.</p> <p>Review Planning Code Section 411.3(a) for applicability.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would include up to 15,000 sf of commercial space. At this time the Transit Impact Development (TIDF) Fee has not been calculated; however, the TIDF does apply to the proposed project.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Jobs-Housing Linkage Program (San Francisco Planning Code Section 413)	<p>The Jobs-Housing Program found that new large scale developments attract new employees to the City who require housing. The program is designed to provide housing for those new uses within San Francisco, thereby allowing employees to live close to their place of employment.</p> <p>The program requires a developer to pay a fee or contribute land suitable for housing to a housing developer or pay an in-lieu fee.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The project does not propose large scale development which would attract new employees to the City. The Jobs-Housing Linkage Program would not apply.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply



		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Bicycle Parking in New and Renovated Commercial Buildings (San Francisco Planning Code, Section 155.4)	<p>Professional Services:</p> <p>(A) Where the gross square footage of the floor area is between 10,000-20,000 feet, 3 bicycle spaces are required.</p> <p>(B) Where the gross square footage of the floor area is between 20,000-50,000 feet, 6 bicycle spaces are required.</p> <p>(3)Where the gross square footage of the floor area exceeds 50,000 square feet, 12 bicycle spaces are required.</p> <p>Retail Services:</p> <p>(A) Where the gross square footage of the floor area is between 25,000 square feet - 50,000 feet, 3 bicycle spaces are required.</p> <p>(2) Where the gross square footage of the floor area is between 50,000 square feet-100,000 feet, 6 bicycle spaces are required.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would not include professional services. Retail services included as part of the proposed project would be up to 15,000 sf and, therefore, bicycle parking would not be required per Planning Code Section 155.4. However, the proposed project would include bicycle parking at the project site.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	(3) Where the gross square footage of the floor area exceeds 100,000 square feet, 12 bicycle spaces are required.				
Bicycle parking in parking garages (San Francisco Planning Code, Section 155.2)	(C) Garages with more than 500 automobile spaces shall provide 25 spaces plus one additional space for every 40 automobile spaces over 500 spaces, up to a maximum of 50 bicycle parking spaces.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would not include construction of parking garages. This requirement is not applicable.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Bicycle parking in Residential Buildings (San Francisco Planning Code, Section 155.5)	<p>(A) For projects up to 50 dwelling units, one Class 1 space for every 2 dwelling units.</p> <p>(B) For projects over 50 dwelling units, 25 Class 1 spaces plus one Class 1 space for every 4 dwelling units over 50.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the project would comply with the requirement for Bicycle Parking in Residential Buildings.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements (San Francisco Building Code, Chapter 13C.106.5 and 13C.5.106.5)	Requires New Large Commercial projects, New High-rise Residential projects and Commercial Interior projects to provide designated parking for low-emitting, fuel efficient, and carpool/van pool vehicles. Mark 8% of parking stalls for such vehicles.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would not include large commercial, high-rise residential, or commercial interior uses. Therefore, this requirement is not applicable to the proposed project.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Car Sharing Requirements (San Francisco Planning Code, Section 166)	New residential projects or renovation of buildings being converted to residential uses within most of the City's mixed-use and transit-oriented residential districts are required to provide car share parking spaces.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The residential development would be required to comply with the car sharing requirements.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Parking requirements for San Francisco's Mixed-Use zoning districts (San Francisco Planning Code Section 151.1)	The Planning Code has established parking maximums for many of San Francisco's Mixed-Use districts.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project is zoned RM-2 under the planning code and would comply with parking requirements for San Francisco's mixed-use zoning districts.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<b>Energy Efficiency Sector</b>					
San Francisco Green Building Requirements for Energy Efficiency (San Francisco Building Code, Chapter 13C.5.201.1.1)	New construction of non-residential buildings requires the demonstration of a 15% energy reduction compared to 2008 California Energy Code, Title 24, Part 6.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include non-residential development and, therefore, would comply with the Green Building Requirements for Energy Efficiency. In addition, the proposed project would seek LEED-ND certification.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
San Francisco Green Building Requirements for Energy Efficiency (LEED EA3, San Francisco Building Code, Chapter 13C.5.410.2)	<p>For New Large Commercial Buildings - Requires Enhanced Commissioning of Building Energy Systems</p> <p>For new large buildings greater than 10,000 square feet, commissioning shall be included in the design and construction to verify that the components meet the owner's or owner representative's project requirements.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would result in more than 10,000 sf of development. Therefore, the proposed project would comply with the requirements for commissioning of building energy systems.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Commissioning of Building Energy Systems (LEED prerequisite, EAp1)	Requires Fundamental Commissioning for New High-rise Residential, Commercial Interior, Commercial and Residential Alteration projects	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project does not include high-rise residential development, commercial interior, commercial alterations, or residential alterations. Therefore, the requirement for Fundamental Commissioning does not apply to the propose project.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for Energy Efficiency (San Francisco Building Code, Chapter 13C)	Commercial buildings greater than 5,000 sf will be required to be a minimum of 14% more energy efficient than Title 24 energy efficiency requirements. As of 2008	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would develop up to 15,000 sf of commercial space. The proposed commercial building</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	large commercial buildings are required to have their energy systems commissioned, and as of 2010, these large buildings are required to provide enhanced commissioning in compliance with LEED® Energy and Atmosphere Credit 3. Mid-sized commercial buildings are required to have their systems commissioned by 2009, with enhanced commissioning as of 2011.		would be constructed to LEED-NC Gold standards and, therefore, would meet the Green Building requirements for energy efficiency		
San Francisco Green Building Requirements for Energy Efficiency (San Francisco Building Code, Chapter 13C)	Under the Green Point Rated system and in compliance with the Green Building Ordinance, all new residential buildings will be required to be at a minimum 15% more energy efficient than Title 24 energy efficiency requirements.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the project would comply with the San Francisco Green Building Requirements for Energy Efficiency	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for Stormwater Management (San Francisco Building Code, Chapter 13C) Or San Francisco Stormwater Management Ordinance (Public Works Code Article 4.2)	Requires all new development or redevelopment disturbing more than 5,000 square feet of ground surface to manage stormwater on-site using low impact design. Projects subject to the Green Building Ordinance Requirements must comply with either LEED® Sustainable Sites	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project would be required to manage stormwater on-site using low impact design and comply with LEED® Sustainable Sites Credits 6.1 and 6.2.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	Credits 6.1 and 6.2, or with the City's Stormwater Management Ordinance and stormwater design guidelines.				
San Francisco Green Building Requirements for water efficient landscaping (San Francisco Building Code, Chapter 13C)	All new commercial buildings greater than 5,000 square feet are required to reduce the amount of potable water used for landscaping by 50%.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore would be required to comply with the Green Building Requirements for water efficient landscaping.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for water use reduction (San Francisco Building Code, Chapter 13C)	All new commercial buildings greater than 5,000 sf are required to reduce the amount of potable water used by 20%.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore, would comply with the requirement for water use reduction. Further, the proposed project would be designed to meet LEED-NC standards.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Indoor Water Efficiency  (San Francisco Building Code, Chapter 13C sections 13C.5.103.1.2,	<b>If meeting a LEED Standard;</b>  Reduce overall use of potable water within the building by a specified percentage – for showerheads, lavatories,	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would be designed to LEED-NC standards and, therefore, would meet the applicable requirements for	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
13C.4.103.2.2,13C.303.2.)	<p>kitchen faucets, wash fountains, water closets and urinals.</p> <p>New large commercial and New high rise residential buildings must achieve a 30% reduction.</p> <p>Commercial interior, commercial alteration and residential alteration should achieve a 20% reduction below UPC/IPC 2006, et al.</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Reduce overall use of potable water within the building by 20% for showerheads, lavatories, kitchen faucets, wash fountains, water closets and urinals.</p>	Comply	potable water reduction.	Comply	Comply
San Francisco Water Efficient Irrigation Ordinance	Projects that include 1,000 square feet (sf) or more of new or modified landscape are subject to this ordinance, which requires that landscape projects be installed, constructed, operated, and maintained in accordance with rules adopted by the SFPUC that establish a water	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include approximately seven acres of open space (parks, plazas, stairs, hillsides, courtyards, and private yards). Therefore, the proposed project would be required to comply with the City's Water Efficient	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>budget for outdoor water consumption.</p> <p>Tier 1: 1,000 sf &lt;= project landscape &lt; 2,500 sf</p> <p>Tier 2: Project landscape area is greater than or equal to 2,500 sf. Note; Tier 2 compliance requires the services of landscape professionals.</p> <p>See the SFPUC Web site for information regarding exemptions to this requirement.</p> <p><a href="http://www.sfwater.org/landscape">www.sfwater.org/landscape</a></p>		Irrigation Ordinance.		
Commercial Water Conservation Ordinance (San Francisco Building Code, Chapter 13A)	<p>Requires all existing commercial properties undergoing tenant improvements to achieve the following minimum standards:</p> <ol style="list-style-type: none"> <li>1. All showerheads have a maximum flow of 2.5 gallons per minute (gpm)</li> <li>2. All showers have no more than one showerhead per valve</li> <li>3. All faucets and faucet aerators have a maximum flow rate of 2.2 gpm</li> <li>4. All Water Closets (toilets)</li> </ol>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project does not include existing commercial property undergoing improvements. The Commercial Water Conservation Ordinance would not apply.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply



		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>have a maximum rated water consumption of 1.6 gallons per flush (gpf)</p> <p>5. All urinals have a maximum flow rate of 1.0 gpf</p> <p>6. All water leaks have been repaired.</p>				
Residential Water Conservation Ordinance (San Francisco Building Code, Housing Code, Chapter 12A)	<p>Requires all residential properties (existing and new), prior to sale, to upgrade to the following minimum standards:</p> <p>1. All showerheads have a maximum flow of 2.5 gallons per minute (gpm)</p> <p>2. All showers have no more than one showerhead per valve</p> <p>3. All faucets and faucet aerators have a maximum flow rate of 2.2 gpm</p> <p>4. All Water Closets (toilets) have a maximum rated water consumption of 1.6 gallons per flush (gpf)</p> <p>5. All urinals have a maximum flow rate of 1.0 gpf</p> <p>6. All water leaks have been repaired.</p> <p>Although these requirements apply to existing buildings, compliance must be completed through the Department of Building</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The project sponsor would be required to comply with the Residential Water Conservation Ordinance.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	Inspection, for which a discretionary permit (subject to CEQA) would be issued.				
Residential Energy Conservation Ordinance (San Francisco Building Code, San Francisco Housing Code, Chapter 12)	<p>Requires all residential properties to provide, prior to sale of property, certain energy and water conservation measures for their buildings: attic insulation; weather-stripping all doors leading from heated to unheated areas; insulating hot water heaters and insulating hot water pipes; installing low-flow showerheads; caulking and sealing any openings or cracks in the building's exterior; insulating accessible heating and cooling ducts; installing low-flow water-tap aerators; and installing or retrofitting toilets to make them low-flush. Apartment buildings and hotels are also required to insulate steam and hot water pipes and tanks, clean and tune their boilers, repair boiler leaks, and install a time-clock on the burner.</p> <p>Although these requirements apply to existing buildings, compliance must be completed through the</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Residential Energy Conservation Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	Department of Building Inspection, for which a discretionary permit (subject to CEQA) would be issued.				
<b>Renewable Energy Sector</b>					
San Francisco Green Building Requirements for renewable energy (San Francisco Building Code, Chapter 13C)	<p>As of 2012, all new large commercial buildings are required to either generate 1% of energy on-site with renewables, or purchase renewable energy credits pursuant to LEED® Energy and Atmosphere Credits 2 or 6, or achieve an additional 10% beyond Title 24 2008.</p> <p>Credit 2 requires providing at least 2.5% of the buildings energy use from on-site renewable sources. Credit 6 requires providing at least 35% of the building's electricity from renewable energy contracts.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore, would be required to meet the Green Building Requirements for Renewable Energy.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<b>Waste Reduction Sector</b>					
Mandatory Recycling and Composting Ordinance (San Francisco Environment Code, Chapter 19) and San Francisco Green Building Requirements for solid waste (San Francisco Building Code, Chapter 13C)	<p>All persons in San Francisco are required to separate their refuse into recyclables, compostables and trash, and place each type of refuse in a separate container designated for disposal of that type of refuse.</p> <p>Pursuant to Section 1304C.0.4 of the Green Building Ordinance, all new construction, renovation and alterations subject to the ordinance are required to provide recycling, composting and trash storage, collection, and loading that is convenient for all users of the building.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Mandatory Recycling and Composting Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for construction and demolition debris recycling (San Francisco Building Code, Chapter 13C)	Projects proposing demolition are required to divert at least 75% of the project's construction and demolition debris to recycling.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Demolition activities associated with construction would be required to comply with the San Francisco Green Building Requirements for Construction and Demolition Debris Recycling.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
San Francisco Construction and Demolition Debris Recovery Ordinance (San Francisco Environment Code, Chapter 14)	Requires that a person conducting full demolition of an existing structure to submit a waste diversion plan to the Director of the Environment which provides for a minimum of 65% diversion from landfill of construction and demolition debris, including materials source separated for reuse or recycling.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Demolition activities associated with construction would be required to comply with the Construction and Demolition Debris Recovery Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<b>Environment/Conservation Sector</b>					
Street Tree Planting Requirements for New Construction (San Francisco Planning Code Section 138.1)	Planning Code Section 138.1 requires new construction, significant alterations or relocation of buildings within many of San Francisco's zoning districts to plant on 24-inch box tree for every 20 feet along the property street frontage.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Street Tree Planting Requirements for New Construction.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Light Pollution Reduction (San Francisco Building Code, Chapter 13C5.106.8)	For nonresidential projects, comply with lighting power requirements in CA Energy Code, CCR Part 6. Requires that lighting be contained within each source. No more than .01 horizontal lumen footcandles 15 feet beyond site, or meet LEED credit SSc8.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include non-residential uses and, therefore, would be required to comply with the lighting power requirements of CA Energy Code, CCR Part 6.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<p>Construction Site Runoff Pollution Prevention for New Construction</p> <p>(San Francisco Building Code, Chapter 13C)</p>	<p>Construction Site Runoff Pollution Prevention requirements depend upon project size, occupancy, and the location in areas served by combined or separate sewer systems.</p> <p>Projects meeting a LEED® standard must prepare an erosion and sediment control plan (LEED® prerequisite SSP1).</p> <p>Other local requirements may apply regardless of whether or not LEED® is applied such as a stormwater soil loss prevention plan or a Stormwater Pollution Prevention Plan (SWPPP).</p> <p>See the SFPUC Web site for more information: www.sfwater.org/CleanWater</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would comply with all applicable Construction Site Runoff Pollution Prevention requirements.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<p>Enhanced Refrigerant Management (San Francisco Building Code, Chapter 13C.5.508.1.2)</p>	<p>All new large commercial buildings must not install equipment that contains chlorofluorocarbons (CFCs) or halons.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would not include large commercial development.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Low-emitting Adhesives, Sealants, and Caulks (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2, 13C.504.2.1)	<p><b>If meeting a LEED Standard:</b></p> <p>Adhesives and sealants (VOCs) must meet SCAQMD Rule 1168 and aerosol adhesives must meet Green Seal standard GS-36.</p> <p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Adhesives and sealants (VOCs) must meet SCAQMD Rule 1168.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would meet LEED-NC standards and, therefore, would be required to meet the requirements for low-emitting adhesives, sealants, and caulks.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Low-emitting materials (San Francisco Building Code, Chapters 13C.4. 103.2.2,	<p>For Small and Medium-sized Residential Buildings - Effective January 1, 2011 meet GreenPoint Rated designation with a minimum of 75 points.</p> <p>For New High-Rise Residential Buildings - Effective January 1, 2011 meet LEED Silver Rating or GreenPoint Rated designation with a minimum of 75 points.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include construction of small-sized residential buildings and, therefore, would be required to meet GreenPoint Rated designation for low-emitting materials with a minimum of 75 points. The proposed project would be designed to LEED-NC standards and, therefore, would also be required to meet	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>For Alterations to residential buildings submit documentation regarding the use of low-emitting materials.</p> <p><b>If meeting a LEED Standard:</b></p> <p>For adhesives and sealants (LEED credit EQ4.1), paints and coatings (LEED credit EQ4.2), and carpet systems (LEED credit EQ4.3), where applicable.</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Meet the GreenPoint Rated Multifamily New Home Measures for low-emitting adhesives and sealants, paints and coatings, and carpet systems,</p>		the LEED requirements for low-emitting materials.		
Low-emitting Paints and Coatings (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2 13C.504.2.2 through 2.4)	<p><b>If meeting a LEED Standard:</b></p> <p>Architectural paints and coatings must meet Green Seal standard GS-11, anti-corrosive paints meet GC-03, and other coatings meet SCAQMD Rule 1113.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would be required to meet LEED standards for low-emitting paints and coatings.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply



		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Interior wall and ceiling paints must meet &lt;50 grams per liter VOCs regardless of sheen. VOC Coatings must meet SCAQMD Rule 1113.</p>				
<p>Low-emitting Flooring, including carpet (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2, 13C.504.3 and 13C.4.504.4)</p>	<p><b>If meeting a LEED Standard:</b></p> <p>Hard surface flooring (vinyl, linoleum, laminate, wood, ceramic, and/or rubber) must be Resilient Floor Covering Institute FloorScore certified; carpet must meet the Carpet and Rug Institute (CRI) Green Label Plus; Carpet cushion must meet CRI Green Label; carpet adhesive must meet LEED EQc4.1.</p> <p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>All carpet systems, carpet cushions, carpet adhesives,</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would be required to meet LEED standards for low-emitting flooring and carpet.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	and at least 50% of resilient flooring must be low-emitting.				
Low-emitting Composite Wood (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2 and 13C.4.504.5)	<p><b>If meeting a LEED Standard:</b></p> <p>Composite wood and agrifiber must not contain added urea-formaldehyde resins and must meet applicable CARB Air Toxics Control Measure.</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Must meet applicable CARB Air Toxics Control Measure formaldehyde limits for composite wood.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would be required to meet LEED standards for low-emitting composite wood.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Wood Burning Fireplace Ordinance (San Francisco Building Code, Chapter 31, Section 3102.8)	<p>Bans the installation of wood burning fire places except for the following:</p> <ul style="list-style-type: none"> <li>• Pellet-fueled wood heater</li> <li>• EPA approved wood heater</li> <li>• Wood heater approved by the Northern Sonoma Air Pollution Control District</li> </ul>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Project construction would not include the installation of wood burning fireplaces. This requirement is not applicable.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Regulation of Diesel Backup Generators (San Francisco Health Code, Article 30)	<p>Requires (among other things):</p> <ul style="list-style-type: none"> <li>• All diesel generators to be registered with the Department of Public Health</li> <li>• All new diesel generators must be equipped with the best available air emissions control technology.</li> </ul>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the mid-rise buildings would have backup diesel generators. The project sponsor would be required to comply with Regulation of Diesel Backup Generators.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply



# SAN FRANCISCO PLANNING DEPARTMENT

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## Compliance Checklist Table for Greenhouse Gas Analysis: Table 1. Private Development Projects

### A. GENERAL PROJECT INFORMATION:

Date: May 9, 2012

Project name: Potrero HOPE SF Master Plan EIR Case No: 2010.0515E

Project address and block and lot: 1095 Connecticut Street, Cross Street 25<sup>th</sup> Street, San Francisco.  
Block/Lot: 4167/004, 004A, 4220A, 4222A, 4285B, 4223/001

[This checklist may only be used for projects within the City and County of San Francisco.]

Compliance Checklist Prepared By: Matthew Berke, Atkins Date: May 9, 2009

### B. COMPLIANCE CHECKLIST TABLE

Projects that do not comply with an ordinance/regulation may be determined to be inconsistent with San Francisco's Greenhouse Gas Reduction Strategy.

1650 Mission St.  
Suite 400  
San Francisco,  
CA 94103-2479

Reception:  
**415.558.6378**

Fax:  
**415.558.6409**

Planning  
Information:  
**415.558.6377**



# SAN FRANCISCO PLANNING DEPARTMENT

**Table 1. Regulations Applicable to Private Development Projects**

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<b>Transportation Sector</b>					
Commuter Benefits Ordinance (Environment Code, Section 421)	<p>All employers of 20 or more employees must provide at least one of the following benefit programs:</p> <p>1. A Pre-Tax Election consistent with 26 U.S.C. § 132(f), allowing employees to elect to exclude from taxable wages and compensation, employee commuting costs incurred for transit passes or vanpool charges, or</p> <p>(2) Employer Paid Benefit whereby the employer supplies a transit pass for the public transit system requested by each Covered Employee or reimbursement for equivalent vanpool charges at least equal in value to the purchase price of the appropriate benefit, or</p> <p>(3) Employer Provided Transit furnished by the employer at no cost to the employee in a vanpool or bus, or similar multi-passenger vehicle operated by or for the employer.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>Due to the programmatic nature of the project at this stage, it is not known which types of commercial uses might occupy the non-residential land uses proposed. However, if the future uses would employ more than 20 people, the project would comply with relevant commuter benefit programs.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Emergency Ride Home Program	All persons employed in San Francisco are eligible for the emergency ride home program.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	People employed at the project site would be eligible for the Emergency Ride Home Program.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Transportation Management Programs (Planning Code, Section 163)	Requires new buildings or additions over a specified size (buildings >25,000 sf or 100,000 sf depending on the use and zoning district) within certain zoning districts (including downtown and mixed-use districts in the City's eastern neighborhoods and south of market) to implement a Transportation Management Program and provide on-site transportation management brokerage services for the life of the building.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Development of proposed retail should not exceed 25,000 square feet. The Transportation Management Programs would not apply.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Transit Impact Development Fee (Administrative Code, Chapter 38)	Establishes the following fees for all commercial developments. Fees are paid to the SFMTA to improve local transit services.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include up to 15,000 sf of commercial space. At this time the Transit Impact Development (TIDF) Fee has not been calculated; however, the TIDF does apply to the proposed project.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Jobs-Housing Linkage Program (Planning Code Section 413)	<p>The Jobs-Housing Program found that new large scale development attracts new employees to the City who require housing. The program is designed to provide housing for those new uses within San Francisco, thereby allowing employees to live close to their place of employment.</p> <p>The program requires a developer to pay a fee or contribute land suitable for housing to a housing developer or pay an in-lieu fee.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The project does not propose large scale development which would attract new employees to the City. The Jobs-Housing Linkage Program would not apply.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Bicycle Parking in New and Renovated Commercial Buildings (Planning Code, Section 155.4)	<p>Professional Services:</p> <p>(A) Where the gross square footage of the floor area is between 10,000-20,000 feet, 3 bicycle spaces are required.</p> <p>(B) Where the gross square footage of the floor area is between 20,000-50,000 feet, 6 bicycle spaces are required.</p> <p>(3)Where the gross square footage of the floor area exceeds 50,000 square feet, 12 bicycle spaces are required.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would not include professional services. Retail services included as part of the proposed project would be up to 15,000 sf and, therefore, bicycle parking would not be required per Planning Code Section 155.4. However, the proposed project would include bicycle parking at the project site.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>Retail Services:</p> <p>(A) Where the gross square footage of the floor area is between 25,000 square feet - 50,000 feet, 3 bicycle spaces are required.</p> <p>(2) Where the gross square footage of the floor area is between 50,000 square feet- 100,000 feet, 6 bicycle spaces are required.</p> <p>(3) Where the gross square footage of the floor area exceeds 100,000 square feet, 12 bicycle spaces are required.</p>				
Bicycle parking in parking garages (Planning Code, Section 155.2)	<p>(A) Every garage will supply a minimum of six bicycle parking spaces.</p> <p>(B) Garages with between 120 and 500 automobile spaces shall provide one bicycle space for every 20 automobile spaces.</p> <p>(C) Garages with more than 500 automobile spaces shall provide 25 spaces plus one additional space for every 40 automobile spaces over 500 spaces, up to a maximum of 50 bicycle parking spaces.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would not include construction of parking garages. This requirement is not applicable.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply



		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Bicycle Parking in Residential Buildings (Planning Code, Section 155.5)	(A) For projects up to 50 dwelling units, one Class 1 space for every 2 dwelling units.  (B) For projects over 50 dwelling units, 25 Class 1 spaces plus one Class 1 space for every 4 dwelling units over 50.	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	Construction of the project would comply with the requirement for Bicycle Parking in Residential Buildings.	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements (San Francisco Building Code, Chapter 13C.106.5 and 13C.5.106.5)	Requires New Large Commercial projects, New High-rise Residential projects and Commercial Interior projects to provide designated parking for low-emitting, fuel efficient, and carpool/van pool vehicles. Mark 8% of parking stalls for such vehicles.	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	The proposed project would not include large commercial, high-rise residential, or commercial interior uses. Therefore, this requirement is not applicable to the proposed project.	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply
Car Sharing Requirements (Planning Code, Section 166)	New residential projects or renovation of buildings being converted to residential uses within most of the City's mixed-use and transit-oriented residential districts are required to provide car share parking spaces.	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	The residential development would be required to comply with the car sharing requirements.	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Parking requirements for San Francisco's Mixed-Use zoning districts (Planning Code Section 151.1)	The Planning Code has established parking maximums for many of San Francisco's Mixed-Use districts.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project is zoned RM-2 under the planning code and would comply with parking requirements for San Francisco's mixed-use zoning districts.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<b>Energy Efficiency Sector</b>					
San Francisco Green Building Requirements for Energy Efficiency (San Francisco Building Code, Chapter 13C.5.201.1.1)	New construction of non-residential buildings requires the demonstration of a 15% energy reduction compared to 2008 California Energy Code, Title 24, Part 6.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include non-residential development and, therefore, would comply with the Green Building Requirements for Energy Efficiency. In addition, the proposed project would seek LEED-ND certification.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for Energy Efficiency (LEED EA3, San Francisco Building Code, Chapter 13C.5.410.2)	<p>For New Large Commercial Buildings - Requires Enhanced Commissioning of Building Energy Systems</p> <p>For new large buildings greater than 10,000 square feet, commissioning shall be included in the design and construction to verify that the components meet the owner's or owner representative's project requirements.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would result in more than 10,000 sf of development. Therefore, the proposed project would comply with the requirements for commissioning of building energy systems.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Commissioning of Building Energy Systems (LEED prerequisite, EA p1)	Requires Fundamental Commissioning for New High-rise Residential, Commercial Interior, Commercial and Residential Alteration projects	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project does not include high-rise residential development, commercial interior, commercial alterations, or residential alterations. Therefore, the requirement for Fundamental Commissioning does not apply to the propose project.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for Energy Efficiency (SF Building Code, Chapter 13C)	Commercial buildings greater than 5,000 sf will be required to be at a minimum 14% more energy efficient than Title 24 energy requirements. By 2008 large commercial buildings will be required to have their energy systems commissioned, and by 2010, these large buildings will be required to provide enhanced commissioning in compliance with LEED® Energy and Atmosphere Credit 3. Mid-sized commercial buildings will be required to have their systems commissioned by 2009, with enhanced commissioning by 2011.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would develop up to 15,000 sf of commercial space. The proposed commercial building would be constructed to LEED-NC Gold standards and, therefore, would meet the Green Building requirements for energy efficiency.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
San Francisco Green Building Requirements for Energy Efficiency (SF Building Code, Chapter 13C)	Under the Green Point Rated system and in compliance with the Green Building Ordinance, all new residential buildings will be required to be at a minimum 15% more energy efficient than Title 24 energy efficiency requirements.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the project would comply with the San Francisco Green Building Requirements for Energy Efficiency	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<p>San Francisco Green Building Requirements for Stormwater Management (SF Building Code, Chapter 13C)</p> <p>Or</p> <p>San Francisco Stormwater Management Ordinance (Public Works Code Article 4.2)</p>	<p>Requires all new development or redevelopment disturbing more than 5,000 square feet of ground surface to manage stormwater on-site using low impact design. Projects subject to the Green Building Ordinance Requirements must comply with either LEED® Sustainable Sites Credits 6.1 and 6.2, or with the City's Stormwater ordinance and stormwater design guidelines.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The project would be required to manage stormwater on-site using low impact design and comply with LEED® Sustainable Sites Credits 6.1 and 6.2.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<p>San Francisco Green Building Requirements for water efficient landscaping (SF Building Code, Chapter 13C)</p>	<p>All new commercial buildings greater than 5,000 square feet are required to reduce the amount of potable water used for landscaping by 50%.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore would be required to comply with the Green Building Requirements for water efficient landscaping.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<p>San Francisco Green Building Requirements for Water Use Reduction (SF Building Code, Chapter 13C)</p>	<p>All new commercial buildings greater than 5,000 sf are required to reduce the amount of potable water used by 20%.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore, would comply with the requirement for water use reduction. Further, the proposed project would be designed to meet LEED-NC standards.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<p>Indoor Water Efficiency</p> <p>(San Francisco Building Code, Chapter 13C sections 13C.5.103.1.2, 13C.4.103.2.2, 13C.303.2.)</p>	<p><b>If meeting a LEED Standard;</b></p> <p>Reduce overall use of potable water within the building by a specified percentage – for showerheads, lavatories, kitchen faucets, wash fountains, water closets and urinals.</p> <p>New large commercial and New high rise residential buildings must achieve a 30% reduction.</p> <p>Commercial interior, commercial alteration and residential alteration should achieve a 20% reduction below UPC/IPC 2006, et al.</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Reduce overall use of potable water within the building by 20% for showerheads, lavatories, kitchen faucets, wash fountains, water closets and urinals.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would be designed to LEED-NC standards and, therefore, would meet the applicable requirements for potable water reduction.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<p>San Francisco Water Efficient Irrigation Ordinance</p>	<p>Projects that include 1,000 square feet (sf) or more of new or modified landscape are subject to this ordinance, which requires that landscape projects be installed, constructed, operated, and maintained in accordance with rules adopted by the SFPUC</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would include approximately seven acres of open space (parks, plazas, stairs, hillsides, courtyards, and private yards). Therefore, the proposed project would be required to comply with the City's Water Efficient Irrigation Ordinance.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>that establish a water budget for outdoor water consumption.</p> <p>Tier 1: 1,000 sf &lt;= project landscape &lt; 2,500 sf</p> <p>Tier 2: Project landscape area is greater than or equal to 2,500 sf. Note; Tier 2 compliance requires the services of landscape professionals.</p> <p>See the SFPUC Web site for information regarding exemptions to this requirement. www.sfwater.org/landscape</p>				
Commercial Water Conservation Ordinance (SF Building Code, Chapter 13A)	<p>Requires all existing commercial properties undergoing tenant improvements to achieve the following minimum standards:</p> <ol style="list-style-type: none"> <li>1. All showerheads have a maximum flow of 2.5 gallons per minute (gpm)</li> <li>2. All showers have no more than one showerhead per valve</li> <li>3. All faucets and faucet aerators have a maximum flow rate of 2.2 gpm</li> <li>4. All Water Closets (toilets) have a maximum rated water consumption of 1.6 gallons per flush (gpf)</li> <li>5. All urinals have a maximum flow rate of 1.0 gpf</li> </ol>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The project does not include existing commercial property undergoing improvements. The Commercial Water Conservation Ordinance would not apply.</p>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	6. All water leaks have been repaired.				
Residential Water Conservation Ordinance (SF Building Code, Housing Code, Chapter 12A)	<p>Requires all residential properties (existing and new), prior to sale, to upgrade to the following minimum standards:</p> <ol style="list-style-type: none"> <li>1. All showerheads have a maximum flow of 2.5 gallons per minute (gpm)</li> <li>2. All showers have no more than one showerhead per valve</li> <li>3. All faucets and faucet aerators have a maximum flow rate of 2.2 gpm</li> <li>4. All Water Closets (toilets) have a maximum rated water consumption of 1.6 gallons per flush (gpf)</li> <li>5. All urinals have a maximum flow rate of 1.0 gpf</li> <li>6. All water leaks have been repaired.</li> </ol> <p>Although these requirements apply to existing buildings, compliance must be completed through the Department of Building Inspection, for which a discretionary permit (subject to CEQA) would be issued.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Residential Water Conservation Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Residential Energy Conservation Ordinance (SF Building Code, Housing Code, Chapter 12)	<p>Requires all residential properties to provide, prior to sale of property, certain energy and water conservation measures for their buildings: attic insulation; weather-stripping all doors leading from heated to unheated areas; insulating hot water heaters and insulating hot water pipes; installing low-flow showerheads; caulking and sealing any openings or cracks in the building's exterior; insulating accessible heating and cooling ducts; installing low-flow water-tap aerators; and installing or retrofitting toilets to make them low-flush. Apartment buildings and hotels are also required to insulate steam and hot water pipes and tanks, clean and tune their boilers, repair boiler leaks, and install a time-clock on the burner.</p> <p>Although these requirements apply to existing buildings, compliance must be completed through the Department of Building Inspection, for which a discretionary permit (subject to CEQA) would be issued.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Residential Energy Conservation Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<b>Renewable Energy Sector</b>					
San Francisco Green Building Requirements for Renewable Energy	By 2012, all new commercial buildings will be required to provide on-site renewable energy or purchase renewable energy credits	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not	Construction of the proposed project would include up to 15,000 sf of commercial uses and, therefore, would be required to meet the	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable



		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
(SF Building Code, Chapter 13C)	<p>pursuant to LEED® Energy and Atmosphere Credits 2 or 6.</p> <p>Credit 2 requires providing at least 2.5% of the buildings energy use from on-site renewable sources. Credit 6 requires providing at least 35% of the building's electricity from renewable energy contracts.</p>	<p>Applicable</p> <p><input type="checkbox"/> Project Does Not Comply</p>	Green Building Requirements for Renewable Energy.	<input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Does Not Comply
<b>Waste Reduction Sector</b>					
<p>Mandatory Recycling and Composting Ordinance (San Francisco Environment Code, Chapter 19) and San Francisco Green Building Requirements for solid waste (San Francisco Building Code, Chapter 13C)</p>	<p>All persons in San Francisco are required to separate their refuse into recyclables, compostables and trash, and place each type of refuse in a separate container designated for disposal of that type of refuse.</p> <p>Pursuant to Section 1304C.0.4 of the Green Building Ordinance, all new construction, renovation and alterations subject to the ordinance are required to provide recycling, composting and trash storage, collection, and loading that is convenient for all users of the building.</p>	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Project Does Not Comply</p>	The project sponsor would be required to comply with the Mandatory Recycling and Composting Ordinance.	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Project Does Not Comply</p>	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Project Does Not Comply</p>
San Francisco Green Building Requirements for construction and Demolition Debris Recycling (SF	Projects proposing demolition are required to divert at least 75% of the project's construction and demolition debris to recycling.	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p>	Demolition activities associated with construction would be required to comply with the San Francisco Green Building Requirements for Construction and Demolition Debris	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Project Does</p>	<p><input checked="" type="checkbox"/> Project Complies</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Project Does Not</p>

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Building Code, Chapter 13C)		<input type="checkbox"/> Project Does Not Comply	Recycling.	Not Comply	Comply
San Francisco Construction and Demolition Debris Recovery Ordinance (SF Environment Code, Chapter 14)	Requires that a person conducting full demolition of an existing structure to submit a waste diversion plan to the Director of the Environment which provides for a minimum of 65% diversion from landfill of construction and demolition debris, including materials source separated for reuse or recycling.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Demolition activities associated with construction would be required to comply with the Construction and Demolition Debris Recovery Ordinance.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
<b>Environment/Conservation Sector</b>					
Street Tree Planting Requirements for New Construction (Planning Code Section 428)	Planning Code Section 428 requires new construction, significant alterations or relocation of buildings within many of San Francisco's zoning districts to plant on 24-inch box tree for every 20 feet along the property street frontage.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The project sponsor would be required to comply with the Street Tree Planting Requirements for New Construction.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Light Pollution Reduction (San Francisco Building Code, Chapter 13C5.106.8)	For nonresidential projects, comply with lighting power requirements in CA Energy Code, CCR Part 6. Requires that lighting be contained within each source. No more than .01 horizontal lumen footcandles 15 feet beyond site, or meet LEED credit SSc8.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include non-residential uses and, therefore, would be required to comply with the lighting power requirements of CA Energy Code, CCR Part 6.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
<p>Construction Site Runoff Pollution Prevention for New Construction</p> <p>(San Francisco Building Code, Chapter 13C)</p>	<p>Construction Site Runoff Pollution Prevention requirements depend upon project size, occupancy, and the location in areas served by combined or separate sewer systems.</p> <p>Projects meeting a LEED® standard must prepare an erosion and sediment control plan (LEED® prerequisite SSP1).</p> <p>Other local requirements may apply regardless of whether or not LEED® is applied such as a stormwater soil loss prevention plan or a Stormwater Pollution Prevention Plan (SWPPP).</p> <p>See the SFPUC Web site for more information: www.sfwater.org/CleanWater</p>	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would comply with all applicable Construction Site Runoff Pollution Prevention requirements.</p>	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies  <input type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply
<p>Enhanced Refrigerant Management (San Francisco Building Code, Chapter 13C.5.508.1.2)</p>	<p>All new large commercial buildings must not install equipment that contains chlorofluorocarbons (CFCs) or halons.</p>	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would not include large commercial development.</p>	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies  <input checked="" type="checkbox"/> Not Applicable  <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Low-emitting Adhesives, Sealants, and Caulks (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2, 13C.504.2.1)	<p><b>If meeting a LEED Standard:</b></p> <p>Adhesives and sealants (VOCs) must meet SCAQMD Rule 1168 and aerosol adhesives must meet Green Seal standard GS-36.</p> <p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Adhesives and sealants (VOCs) must meet SCAQMD Rule 1168.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would meet LEED-NC standards and, therefore, would be required to meet the requirements for low-emitting adhesives, sealants, and caulks.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Low-emitting materials (San Francisco Building Code, Chapters 13C.4. 103.2.2,	<p>For Small and Medium-sized Residential Buildings - Effective January 1, 2011 meet GreenPoint Rated designation with a minimum of 75 points.</p> <p>For New High-Rise Residential Buildings - Effective January 1, 2011 meet LEED Silver Rating or GreenPoint Rated designation with a minimum of 75 points.</p> <p>For Alterations to residential buildings submit documentation regarding the use of low-emitting materials.</p> <p><b>If meeting a LEED Standard:</b></p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would include construction of small-sized residential buildings and, therefore, would be required to meet GreenPoint Rated designation for low-emitting materials with a minimum of 75 points. The proposed project would be designed to LEED-NC standards and, therefore, would also be required to meet the LEED requirements for low-emitting materials.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p>For adhesives and sealants (LEED credit EQ4.1), paints and coatings (LEED credit EQ4.2), and carpet systems (LEED credit EQ4.3), where applicable.</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Meet the GreenPoint Rated Multifamily New Home Measures for low-emitting adhesives and sealants, paints and coatings, and carpet systems,</p>				
<p>Low-emitting Paints and Coatings (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2 13C.504.2.2 through 2.4)</p>	<p><b>If meeting a LEED Standard:</b></p> <p>Architectural paints and coatings must meet Green Seal standard GS-11, anti-corrosive paints meet GC-03, and other coatings meet SCAQMD Rule 1113.</p> <p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Interior wall and ceiling paints must meet &lt;50 grams per liter VOCs regardless of sheen. VOC Coatings must meet SCAQMD Rule 1113.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<p>The proposed project would be required to meet LEED standards for low-emitting paints and coatings.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
Low-emitting Flooring, including carpet (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2, 13C.504.3 and 13C.4.504.4)	<p><b>If meeting a LEED Standard:</b></p> <p>Hard surface flooring (vinyl, linoleum, laminate, wood, ceramic, and/or rubber) must be Resilient Floor Covering Institute FloorScore certified; carpet must meet the Carpet and Rug Institute (CRI) Green Label Plus; Carpet cushion must meet CRI Green Label; carpet adhesive must meet LEED EQc4.1.</p> <p>(Not applicable for New High Rise residential)</p> <p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>All carpet systems, carpet cushions, carpet adhesives, and at least 50% of resilient flooring must be low-emitting.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would be required to meet LEED standards for low-emitting flooring and carpet.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Low-emitting Composite Wood (San Francisco Building Code, Chapters 13C.5.103.1.9, 13C.5.103.4.2, 13C.5.103.3.2, 13C.5.103.2.2 and 13C.4.504.5)	<p><b>If meeting a LEED Standard:</b></p> <p>Composite wood and agrifiber must not contain added urea-formaldehyde resins and must meet applicable CARB Air Toxics Control Measure.</p>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	The proposed project would be required to meet LEED standards for low-emitting composite wood.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply

		Proposed Action		Alternative 1	Alternative 2
Regulation	Requirements	Project Compliance	Discussion	Project Compliance	Project Compliance
	<p><b>If meeting a GreenPoint Rated Standard:</b></p> <p>Must meet applicable CARB Air Toxics Control Measure formaldehyde limits for composite wood.</p>				
Wood Burning Fireplace Ordinance (San Francisco Building Code, Chapter 31, Section 3102.8)	<p>Bans the installation of wood burning fire places except for the following:</p> <ul style="list-style-type: none"> <li>• Pellet-fueled wood heater</li> <li>• EPA approved wood heater</li> <li>• Wood heater approved by the Northern Sonoma Air Pollution Control District</li> </ul>	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Project construction would not include the installation of wood burning fireplaces. This requirement is not applicable.	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input type="checkbox"/> Project Complies <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply
Regulation of Diesel Backup Generators (San Francisco Health Code, Article 30)	<p>Requires (among other things):</p> <ul style="list-style-type: none"> <li>• All diesel generators to be registered with the Department of Public Health</li> <li>• All new diesel generators must be equipped with the best available air emissions control technology.</li> </ul>	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	Construction of the mid-rise buildings would have backup diesel generators. The project sponsor would be required to comply with Regulation of Diesel Backup Generators.	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply	<input checked="" type="checkbox"/> Project Complies <input type="checkbox"/> Not Applicable <input type="checkbox"/> Project Does Not Comply





APPENDIX 4.10B **Project GHG Emissions  
Inventory**



## **ATTACHMENT A**

Proposed Project CalEEMod Summary and Output




**Potrero HOPE  
Proposed Project GHG Inventory**

<b><i>Unmitigated Total Project Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	7,447.95
Energy	4,117.13
Solid Waste	196.01
Area Sources	42.05
Water/Wastewater	328.76
Stationary Source	27.45
<b>Total Unmitigated Operational GHG Emissions</b>	<b>12,159.35</b>

<b><i>Unmitigated Phase 1 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	1,363.90
Energy	632.30
Solid Waste	29.15
Area Sources	5.04
Water/Wastewater	49.94
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>2,080.32</b>

<b><i>Unmitigated Phase 2 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	3,458.51
Energy	1,941.73
Solid Waste	96.09
Area Sources	20.25
Water/Wastewater	156.69
Stationary Source	27.45
<b>Total Unmitigated Operational GHG Emissions</b>	<b>5,700.73</b>

<b><i>Unmitigated Phase 3 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	2,625.54
Energy	1,543.10
Solid Waste	70.77
Area Sources	16.76
Water/Wastewater	122.13
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>4,378.30</b>



Phase 1

**Potrero - Proposed Project Phase 1 Operational GHG  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Apartments Low Rise	85.00	Dwelling Unit	2.32	85,0
Condo/Townhouse	185.00	Dwelling Unit	5.04	185,0
Strip Mall	3.75	1000sqft	0.04	3,75

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - GHG Analysis for Phase 1 of the Potrero Proposed Project

Land Use - Based on project specific data

Construction Phase - No construction

Off-road Equipment - No construction

Vehicle Trips - Based on project specific traffic data

Woodstoves - No wood burning stoves or fireplaces. Gas and No Fireplace numbers scaled based on default CalEEMod split for gas

Energy Use - Uses CalEEMod defaults

Water And Wastewater - Uses CalEEMod Defaults

Solid Waste - Uses CalEEMod Defaults

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title24 "mitigated" energy represents compliance with current T24 regulations.

Water Mitigation - Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste compliance with california standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	46.75	10.00
tblFireplaces	NumberGas	101.75	25.00
tblFireplaces	NumberNoFireplace	26.35	75.00
tblFireplaces	NumberNoFireplace	57.35	160.00
tblFireplaces	NumberWood	11.90	0.00
tblFireplaces	NumberWood	25.90	0.00
tblLandUse	LotAcreage	5.31	2.32
tblLandUse	LotAcreage	11.56	5.04
tblLandUse	LotAcreage	0.09	0.04
tblLandUse	Population	243.00	194.00
tblLandUse	Population	529.00	422.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00





**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	4.9575	4.9575	3.320003
Energy											0.0000	676.9481	676.9481	0.02
Mobile											0.0000	1,335.7280	1,335.7280	0.05
Waste											26.0113	0.0000	26.0113	1.53
Water											5.6691	39.5940	45.2631	0.58
<b>Total</b>											<b>31.6804</b>	<b>2,057.2276</b>	<b>2,088.9080</b>	<b>2.20</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	4.9575	4.9575	3.320003
Energy											0.0000	629.2012	629.2012	0.02
Mobile											0.0000	1,335.7280	1,335.7280	0.05
Waste											13.0056	0.0000	13.0056	0.76
Water											4.5353	32.0888	36.6241	0.46
<b>Total</b>											<b>17.5409</b>	<b>2,001.9755</b>	<b>2,019.5164</b>	<b>1.31</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>44.63</b>	<b>2.69</b>	<b>3.32</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Demolition	4	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	1,335.7280	1,335.7280	0.055
Unmitigated											0.0000	1,335.7280	1,335.7280	0.055

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	317.90	317.90	317.90	709,669	709,669
Condo/Townhouse	923.15	923.15	923.15	2,060,809	2,060,809
Strip Mall	280.46	280.46	280.46	431,922	431,922
<b>Total</b>	<b>1,521.51</b>	<b>1,521.51</b>	<b>1,521.51</b>	<b>3,202,399</b>	<b>3,202,399</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	P
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.627987	0.058543	0.149166	0.078755	0.026467	0.003331	0.026417	0.003903	0.003129	0.011009	0.010235	0.000550

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	301.1550	301.1550	5.770003
NaturalGas Unmitigated											0.0000	346.9307	346.9307	6.650003
Electricity Mitigated											0.0000	328.0463	328.0463	0.014
Electricity Unmitigated											0.0000	330.0175	330.0175	0.014

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	1.98973e+006											0.0000	106.1794	106.17
Condo/Townhouse	4.49351e+006											0.0000	239.7908	239.79
Strip Mall	18000											0.0000	0.9606	0.960
<b>Total</b>												<b>0.0000</b>	<b>346.9307</b>	<b>346.93</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	1.72636e+006											0.0000	92.1253	92.12
Condo/Townhouse	3.90137e+006											0.0000	208.1921	208.19
Strip Mall	15693.7											0.0000	0.8375	0.837
<b>Total</b>												<b>0.0000</b>	<b>301.1549</b>	<b>301.15</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	302291	87.9398	3.9800e-003	8.2000e-004	88.2783
Condo/Townhouse	788598	229.4121	0.0104	2.1500e-003	230.2953
Strip Mall	43537.5	12.6656	5.7000e-004	1.2000e-004	12.7143
<b>Total</b>		<b>330.0175</b>	<b>0.0149</b>	<b>3.0900e-003</b>	<b>331.2879</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	300823	87.5128	3.9600e-003	8.2000e-004	87.8497
Condo/Townhouse	784831	228.3163	0.0103	2.1400e-003	229.1953
Strip Mall	41996.3	12.2172	5.5000e-004	1.1000e-004	12.2642
<b>Total</b>		<b>328.0463</b>	<b>0.0148</b>	<b>3.0700e-003</b>	<b>329.3092</b>

### 6.0 Area Detail

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### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	4.9575	4.9575	3.320003
Unmitigated											0.0000	4.9575	4.9575	3.320003

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	1.6826	1.6826	3.000005
Landscaping											0.0000	3.2748	3.2748	3.290003
<b>Total</b>											<b>0.0000</b>	<b>4.9575</b>	<b>4.9575</b>	<b>3.320003</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	1.6826	1.6826	3.000005
Landscaping											0.0000	3.2748	3.2748	3.290003
<b>Total</b>											<b>0.0000</b>	<b>4.9575</b>	<b>4.9575</b>	<b>3.320003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	45.2631	0.5841	0.0141	61.9054
Mitigated	36.6241	0.4673	0.0113	49.9395

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	5.53809 / 3.49141	14.0295	0.1810	4.3800e-003	19.1873
Condo/Townhouse	12.0535 / 7.59894	30.5349	0.3940	9.5200e-003	41.7607
Strip Mall	0.277772 / 0.170247	0.6987	9.0800e-003	2.2000e-004	0.9574
<b>Total</b>		<b>45.2631</b>	<b>0.5841</b>	<b>0.0141</b>	<b>61.9054</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	4.43047 / 3.49141	11.3521	0.1448	3.5000e-003	15.4789
Condo/Townhouse	9.6428 / 7.59894	24.7076	0.3152	7.6200e-003	33.6893
Strip Mall	0.222218 / 0.170247	0.5644	7.2600e-003	1.8000e-004	0.7714
<b>Total</b>		<b>36.6241</b>	<b>0.4673</b>	<b>0.0113</b>	<b>49.9395</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.0056	0.7686	0.0000	29.1465
Unmitigated	26.0113	1.5372	0.0000	58.2929

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	39.1	7.9370	0.4691	0.0000	17.7872
Condo/Townhouse	85.1	17.2745	1.0209	0.0000	38.7133
Strip Mall	3.94	0.7998	0.0473	0.0000	1.7924
<b>Total</b>		<b>26.0113</b>	<b>1.5372</b>	<b>0.0000</b>	<b>58.2929</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	19.55	3.9685	0.2345	0.0000	8.8936
Condo/Townhouse	42.55	8.6373	0.5105	0.0000	19.3567
Strip Mall	1.97	0.3999	0.0236	0.0000	0.8962
<b>Total</b>		<b>13.0056</b>	<b>0.7686</b>	<b>0.0000</b>	<b>29.1465</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation



Phase 2

**Potrero Proposed Project Phase 2 -GHG Only  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Day-Care Center	11.00	1000sqft	0.10	11,0
Library	24.00	1000sqft	0.22	24,0
Apartments Low Rise	224.00	Dwelling Unit	5.57	224,0
Apartments Mid Rise	100.00	Dwelling Unit	1.05	100,0
Condo/Townhouse	501.00	Dwelling Unit	12.45	501,0
Strip Mall	6.25	1000sqft	0.06	6,2

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Project Characteristics - Operational GHG Emissions for the Proposed Project's Phase 2.

Land Use - Based on Project specific data

Construction Phase - No Construction

Off-road Equipment - No construction

Vehicle Trips - Based on project specific traffic data

Woodstoves - Based on project specific data

Energy Use - Uses CalEEMod defaults

Water And Wastewater - Uses CalEEMod defaults

Solid Waste - Uses CalEEMod defaults

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title24 "mitigated" energy represents compliance with current T24 regulations.

Water Mitigation - Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste compliance with california standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	123.20	27.00
tblFireplaces	NumberGas	55.00	0.00
tblFireplaces	NumberGas	275.55	61.00
tblFireplaces	NumberNoFireplace	69.44	197.00
tblFireplaces	NumberNoFireplace	31.00	100.00
tblFireplaces	NumberNoFireplace	155.31	440.00
tblFireplaces	NumberWood	31.36	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	70.14	0.00
tblLandUse	LotAcreage	0.25	0.10
tblLandUse	LotAcreage	0.55	0.22
tblLandUse	LotAcreage	14.00	5.57

tblLandUse	LotAcreage	2.63	1.05
tblLandUse	LotAcreage	31.31	12.45
tblLandUse	LotAcreage	0.14	0.06
tblLandUse	Population	641.00	511.00
tblLandUse	Population	286.00	228.00
tblLandUse	Population	1,433.00	1,142.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	ST_TR	7.16	3.74
tblVehicleTrips	ST_TR	7.16	2.49
tblVehicleTrips	ST_TR	7.16	4.99
tblVehicleTrips	ST_TR	6.21	11.37
tblVehicleTrips	ST_TR	46.55	11.37
tblVehicleTrips	ST_TR	42.04	74.79
tblVehicleTrips	SU_TR	6.07	3.74
tblVehicleTrips	SU_TR	6.07	2.49
tblVehicleTrips	SU_TR	6.07	4.99
tblVehicleTrips	SU_TR	5.83	11.37
tblVehicleTrips	SU_TR	25.49	11.37
tblVehicleTrips	SU_TR	20.43	74.79
tblVehicleTrips	WD_TR	6.59	3.74
tblVehicleTrips	WD_TR	6.59	2.49
tblVehicleTrips	WD_TR	6.59	4.99
tblVehicleTrips	WD_TR	79.26	11.37
tblVehicleTrips	WD_TR	56.24	11.37
tblVehicleTrips	WD_TR	44.32	74.79
tblWoodstoves	WoodstoveDayYear	10.82	0.00

tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00

## 2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Area											5.2673	14.2376	19.5050	0.03
Energy											0.0000	2,074.0038	2,074.0038	0.06
Mobile											0.0000	3,455.8356	3,455.8356	0.12
Waste											85.7556	0.0000	85.7556	5.06
Water											17.5878	124.4894	142.0772	1.81
<b>Total</b>											<b>108.6107</b>	<b>5,668.5664</b>	<b>5,777.1771</b>	<b>7.10</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											5.2673	14.2376	19.5050	0.03
Energy											0.0000	1,932.3084	1,932.3084	0.06
Mobile											0.0000	3,455.8356	3,455.8356	0.12
Waste											42.8778	0.0000	42.8778	2.53
Water											14.0703	101.2054	115.2756	1.44
<b>Total</b>											<b>62.2154</b>	<b>5,503.5870</b>	<b>5,565.8024</b>	<b>4.20</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>42.72</b>	<b>2.91</b>	<b>3.66</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Demolition	4	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	3,455.8356	3,455.8356	0.1279
Unmitigated											0.0000	3,455.8356	3,455.8356	0.1279

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	837.76	837.76	837.76	1,870,187	1,870,187
Apartments Mid Rise	249.00	249.00	249.00	555,859	555,859
Condo/Townhouse	2,499.99	2,499.99	2,499.99	5,580,893	5,580,893
Day-Care Center	125.07	125.07	125.07	147,286	147,286
Library	272.88	272.88	272.88	462,493	462,493
Strip Mall	467.44	467.44	467.44	719,869	719,869
<b>Total</b>	<b>4,452.14</b>	<b>4,452.14</b>	<b>4,452.14</b>	<b>9,336,587</b>	<b>9,336,587</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Purpose
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.631111	0.058460	0.148318	0.077016	0.026015	0.003267	0.026393	0.004086	0.003138	0.010856	0.010319	0.000524

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	887.5008	887.5008	0.017
NaturalGas Unmitigated											0.0000	1,021.0556	1,021.0556	0.019
Electricity Mitigated											0.0000	1,044.8076	1,044.8076	0.047
Electricity Unmitigated											0.0000	1,052.9482	1,052.9482	0.047

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	5.24351e+006											0.0000	279.8138	279.81
Apartments Mid Rise	885367											0.0000	47.2466	47.24
Condo/Townhouse	1.21689e+007											0.0000	649.3793	649.37
Day-Care Center	189750											0.0000	10.1258	10.12
Library	616320											0.0000	32.8892	32.88
Strip Mall	30000											0.0000	1.6009	1.60
<b>Total</b>												<b>0.0000</b>	<b>1,021.0556</b>	<b>1,021.06</b>



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	4.54948e+006											0.0000	242.7774	242.7774
Apartments Mid Rise	777492											0.0000	41.4899	41.4899
Condo/Townhouse	1.05653e+007											0.0000	563.8068	563.8068
Day-Care Center	163961											0.0000	8.7496	8.7496
Library	548712											0.0000	29.2814	29.2814
Strip Mall	26156.2											0.0000	1.3958	1.3958
<b>Total</b>												<b>0.0000</b>	<b>887.5008</b>	<b>887.5008</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	796625	231.7472	0.0105	2.1700e-003	232.6394
Apartments Mid Rise	361535	105.1747	4.7600e-003	9.8000e-004	105.5796
Condo/Townhouse	2.13561e+006	621.2728	0.0281	5.8100e-003	623.6645
Day-Care Center	54670	15.9041	7.2000e-004	1.5000e-004	15.9654
Library	198480	57.7401	2.6100e-003	5.4000e-004	57.9624
Strip Mall	72562.5	21.1093	9.5000e-004	2.0000e-004	21.1905
<b>Total</b>		<b>1,052.9482</b>	<b>0.0476</b>	<b>9.8500e-003</b>	<b>1,057.0017</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	792757	230.6220	0.0104	2.1600e-003	231.5098
Apartments Mid Rise	356854	103.8130	4.6900e-003	9.7000e-004	104.2126
Condo/Townhouse	2.12541e+006	618.3052	0.0280	5.7800e-003	620.6855
Day-Care Center	53333.5	15.5153	7.0000e-004	1.5000e-004	15.5751
Library	193152	56.1901	2.5400e-003	5.3000e-004	56.4065
Strip Mall	69993.8	20.3620	9.2000e-004	1.9000e-004	20.4404
<b>Total</b>		<b>1,044.8076</b>	<b>0.0472</b>	<b>9.7800e-003</b>	<b>1,048.8298</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											5.2673	14.2376	19.5050	0.034
Unmitigated											5.2673	14.2376	19.5050	0.034

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											5.2673	4.2306	9.4980	0.024
Landscaping											0.0000	10.0070	10.0070	9.700003
<b>Total</b>											<b>5.2673</b>	<b>14.2376</b>	<b>19.5050</b>	<b>0.034</b>

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											5.2673	4.2306	9.4980	0.0200
Landscaping											0.0000	10.0070	10.0070	9.7000003
<b>Total</b>											<b>5.2673</b>	<b>14.2376</b>	<b>19.5050</b>	<b>0.0300003</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	142.0772	1.8121	0.0438	193.7144
Mitigated	115.2756	1.4497	0.0351	156.5916

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	14.5945 / 9.20088	36.9719	0.4770	0.0115	50.5643
Apartments Mid Rise	6.5154 / 4.10754	16.5053	0.2130	5.1500e-003	22.5733
Condo/Townhouse	32.6422 / 20.5788	82.6917	1.0669	0.0258	113.0924
Day-Care Center	0.471785 / 1.21316	2.1276	0.0155	3.8000e-004	2.5705
Library	0.750934 / 1.17454	2.6162	0.0246	6.0000e-004	3.3183
Strip Mall	0.462953 / 0.283746	1.1645	0.0151	3.7000e-004	1.5957
<b>Total</b>		<b>142.0772</b>	<b>1.8121</b>	<b>0.0438</b>	<b>193.7145</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.6756 / 9.20088	29.9162	0.3816	9.2300e-003	40.7913
Apartments Mid Rise	5.21232 / 4.10754	13.3554	0.1704	4.1200e-003	18.2104
Condo/Townhouse	26.1137 / 20.5788	66.9107	0.8536	0.0206	91.2342
Day-Care Center	0.377428 / 1.21316	1.8995	0.0124	3.1000e-004	2.2546
Library	0.600747 / 1.17454	2.2532	0.0197	4.8000e-004	2.8155
Strip Mall	0.370363 / 0.283746	0.9407	0.0121	2.9000e-004	1.2857
<b>Total</b>		<b>115.2756</b>	<b>1.4497</b>	<b>0.0351</b>	<b>156.5916</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.8778	2.5340	0.0000	96.0919
Unmitigated	85.7556	5.0680	0.0000	192.1837

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	103.04	20.9162	1.2361	0.0000	46.8745
Apartments Mid Rise	46	9.3376	0.5518	0.0000	20.9261
Condo/Townhouse	230.46	46.7813	2.7647	0.0000	104.8399
Day-Care Center	14.3	2.9028	0.1716	0.0000	6.5053
Library	22.1	4.4861	0.2651	0.0000	10.0536
Strip Mall	6.56	1.3316	0.0787	0.0000	2.9843
<b>Total</b>		<b>85.7556</b>	<b>5.0680</b>	<b>0.0000</b>	<b>192.1838</b>



## 8.2 Waste by Land Use


### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	51.52	10.4581	0.6181	0.0000	23.4373
Apartments Mid Rise	23	4.6688	0.2759	0.0000	10.4631
Condo/Townhouse	115.23	23.3907	1.3824	0.0000	52.4200
Day-Care Center	7.15	1.4514	0.0858	0.0000	3.2527
Library	11.05	2.2431	0.1326	0.0000	5.0268
Strip Mall	3.28	0.6658	0.0394	0.0000	1.4921
<b>Total</b>		<b>42.8778</b>	<b>2.5340</b>	<b>0.0000</b>	<b>96.0919</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation



Phase 3

**Potrero Proposed Project Phase 3 - GHG Only**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Apartments Low Rise	207.00	Dwelling Unit	3.84	207,
Condo/Townhouse	458.00	Dwelling Unit	8.49	458,
Strip Mall	5.00	1000sqft	0.03	5,0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Operational GHG Emissions for the Potrero Proposed Project Phase 3

Land Use - Based on Project specific data

Construction Phase - No Construction

Off-road Equipment - No construction

Vehicle Trips - Based on project specific traffic data

Woodstoves - Based on project data

Energy Use - Uses CalEEMod defaults

Water And Wastewater - Uses CalEEMod defaults

Solid Waste - Uses CalEEMod defaults

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title24 "mitigated" energy represents complaince with current T24 regulations.

Water Mitigation - Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste complaince with california standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	113.85	25.00
tblFireplaces	NumberGas	251.90	55.00
tblFireplaces	NumberNoFireplace	64.17	182.00
tblFireplaces	NumberNoFireplace	141.98	403.00
tblFireplaces	NumberWood	28.98	0.00
tblFireplaces	NumberWood	64.12	0.00
tblLandUse	LotAcreage	12.94	3.84
tblLandUse	LotAcreage	28.63	8.49
tblLandUse	LotAcreage	0.11	0.03
tblLandUse	Population	592.00	472.00
tblLandUse	Population	1,310.00	1,044.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	ST_TR	7.16	3.74
tblVehicleTrips	ST_TR	7.16	4.99
tblVehicleTrips	ST_TR	42.04	74.79
tblVehicleTrips	SU_TR	6.07	3.74
tblVehicleTrips	SU_TR	6.07	4.99
tblVehicleTrips	SU_TR	20.43	74.79
tblVehicleTrips	WD_TR	6.59	3.74
tblVehicleTrips	WD_TR	6.59	4.99
tblVehicleTrips	WD_TR	44.32	74.79
tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00

## 2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Area											4.2446	11.9118	16.1563	0.02
Energy											0.0000	1,652.4995	1,652.4995	0.05
Mobile											0.0000	2,623.6997	2,623.6997	0.08
Waste											63.1606	0.0000	63.1606	3.73
Water											13.8633	96.8288	110.6921	1.42
<b>Total</b>											<b>81.2685</b>	<b>4,384.9398</b>	<b>4,466.2083</b>	<b>5.32</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Area											4.2446	11.9118	16.1563	0.02
Energy											0.0000	1,535.5312	1,535.5312	0.05
Mobile											0.0000	2,623.6997	2,623.6997	0.08
Waste											31.5803	0.0000	31.5803	1.86
Water											11.0906	78.4755	89.5662	1.14
<b>Total</b>											<b>46.9155</b>	<b>4,249.6183</b>	<b>4,296.5338</b>	<b>3.17</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>42.27</b>	<b>3.09</b>	<b>3.80</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Demolition	4	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	2,623.6997	2,623.6997	0.087
Unmitigated											0.0000	2,623.6997	2,623.6997	0.087

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	774.18	774.18	774.18	1,728,253	1,728,253
Condo/Townhouse	2,285.42	2,285.42	2,285.42	5,101,894	5,101,894
Strip Mall	373.95	373.95	373.95	575,895	575,895
<b>Total</b>	<b>3,433.55</b>	<b>3,433.55</b>	<b>3,433.55</b>	<b>7,406,043</b>	<b>7,406,043</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	P
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.630348	0.058305	0.148471	0.076665	0.026166	0.003250	0.027367	0.004239	0.003204	0.010671	0.010334	0.000497

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	740.8851	740.8851	0.014
NaturalGas Unmitigated											0.0000	853.5029	853.5029	0.016
Electricity Mitigated											0.0000	794.6461	794.6461	0.035
Electricity Unmitigated											0.0000	798.9967	798.9967	0.036

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	4.84557e+006											0.0000	258.5780	258.5780
Condo/Townhouse	1.11245e+007											0.0000	593.6442	593.6442
Strip Mall	24000											0.0000	1.2807	1.2807
<b>Total</b>												<b>0.0000</b>	<b>853.5029</b>	<b>853.5029</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	4.2042e+006											0.0000	224.3523	224.3523
Condo/Townhouse	9.65853e+006											0.0000	515.4162	515.4162
Strip Mall	20925											0.0000	1.1166	1.1166
<b>Total</b>												<b>0.0000</b>	<b>740.8851</b>	<b>740.8851</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	736167	214.1593	9.6800e-003	2.0000e-003	214.9837
Condo/Townhouse	1.95231e+006	567.9500	0.0257	5.3100e-003	570.1364
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
<b>Total</b>		<b>798.9966</b>	<b>0.0361</b>	<b>7.4700e-003</b>	<b>802.0725</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	732592	213.1194	9.6400e-003	1.9900e-003	213.9399
Condo/Townhouse	1.94299e+006	565.2371	0.0256	5.2900e-003	567.4131
Strip Mall	55995	16.2896	7.4000e-004	1.5000e-004	16.3523
<b>Total</b>		<b>794.6461</b>	<b>0.0359</b>	<b>7.4300e-003</b>	<b>797.7053</b>

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											4.2446	11.9118	16.1563	0.02
Unmitigated											4.2446	11.9118	16.1563	0.02

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											4.2446	3.8460	8.0906	0.019
Landscaping											0.0000	8.0657	8.0657	7.720003
<b>Total</b>											<b>4.2446</b>	<b>11.9118</b>	<b>16.1563</b>	<b>0.02</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											4.2446	3.8460	8.0906	0.0190
Landscaping											0.0000	8.0657	8.0657	7.720003
<b>Total</b>											<b>4.2446</b>	<b>11.9118</b>	<b>16.1563</b>	<b>0.0210</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	110.6921	1.4283	0.0345	151.3891
Mitigated	89.5662	1.1427	0.0276	122.1278

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.4869 / 8.5026	34.1660	0.4408	0.0107	46.7268
Condo/Townhouse	29.8405 / 18.8125	75.5944	0.9753	0.0236	103.3858
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2765
<b>Total</b>		<b>110.6921</b>	<b>1.4283</b>	<b>0.0345</b>	<b>151.3891</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	10.7895 / 8.5026	27.6457	0.3527	8.5300e-003	37.6956
Condo/Townhouse	23.8724 / 18.8125	61.1679	0.7803	0.0189	83.4037
Strip Mall	0.29629 / 0.226996	0.7526	9.6800e-003	2.3000e-004	1.0285
<b>Total</b>		<b>89.5662</b>	<b>1.1427</b>	<b>0.0276</b>	<b>122.1278</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services



**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5803	1.8663	0.0000	70.7735
Unmitigated	63.1606	3.7327	0.0000	141.5471

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	95.22	19.3288	1.1423	0.0000	43.3171
Condo/Townhouse	210.68	42.7661	2.5274	0.0000	95.8417
Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
<b>Total</b>		<b>63.1606</b>	<b>3.7327</b>	<b>0.0000</b>	<b>141.5471</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	47.61	9.6644	0.5712	0.0000	21.6585
Condo/Townhouse	105.34	21.3831	1.2637	0.0000	47.9208
Strip Mall	2.625	0.5329	0.0315	0.0000	1.1942
<b>Total</b>		<b>31.5803</b>	<b>1.8663</b>	<b>0.0000</b>	<b>70.7735</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation

## **ATTACHMENT B**

Alternative 1 CalEEMod Summary and Output


**Potrero HOPE**  
**Alternative 1 GHG Inventory**

<b><i>Unmitigated Total Alternative 1 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	6,628.63
Energy	2,999.89
Solid Waste	143.48
Area Sources	56.46
Water/Wastewater	239.96
Stationary Source	27.45
<b>Total Unmitigated Operational GHG Emissions</b>	<b>10,095.88</b>

<b><i>Unmitigated Phase 1 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	1,021.39
Energy	461.38
Solid Waste	21.30
Area Sources	6.54
Water/Wastewater	36.28
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>1,546.89</b>

<b><i>Unmitigated Phase 2 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	2,622.69
Energy	1,414.88
Solid Waste	70.66
Area Sources	27.82
Water/Wastewater	115.06
Stationary Source	27.45
<b>Total Unmitigated Operational GHG Emissions</b>	<b>4,278.57</b>

<b><i>Unmitigated Phase 3 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	2,984.56
Energy	1,123.62
Solid Waste	51.52
Area Sources	22.10
Water/Wastewater	88.62
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>4,270.43</b>



Phase 1

**Potrero - Alternative 1 - Operational Phase 1 - GHG  
San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Apartments Low Rise	57.00	Dwelling Unit	2.35	57,0
Condo/Townhouse	138.00	Dwelling Unit	5.04	138,
Strip Mall	3.75	1000sqft	0.04	3,7

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Operational GHG Emissions only

Land Use - based on project data

Construction Phase - no construction

Off-road Equipment - no construction

Vehicle Trips - based on project specifics

Woodstoves - no wood stoves or fireplaces

Energy Use - same as original Proposed Project

Water And Wastewater - Uses CalEEMod defaults

Solid Waste - Uses CalEEMod defaults

Area Mitigation -

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title 24 standards. "mitigated" energy represents compliance with current T24 regulations.

Water Mitigation - Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod. "mitigated" water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste represents project compliance with California standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	31.35	31.00
tblFireplaces	NumberGas	75.90	76.00
tblFireplaces	NumberNoFireplace	17.67	26.00
tblFireplaces	NumberNoFireplace	42.78	62.00
tblFireplaces	NumberWood	7.98	0.00
tblFireplaces	NumberWood	19.32	0.00
tblLandUse	LotAcreage	3.56	2.35





**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											1.2401	5.1441	6.3842	5.900003
Energy											0.0000	493.8001	493.8001	0.013
Mobile											0.0000	1,020.4970	1,020.4970	0.042
Waste											19.0081	0.0000	19.0081	1.123
Water											4.1189	28.7653	32.8841	0.423
<b>Total</b>											<b>24.3671</b>	<b>1,548.2065</b>	<b>1,572.5735</b>	<b>1.611</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	0.0000	0.0000	0.0000
Energy											0.0000	459.1296	459.1296	0.013
Mobile											0.0000	1,020.4970	1,020.4970	0.042
Waste											9.5040	0.0000	9.5040	0.56
Water											3.2951	23.3124	26.6075	0.33
<b>Total</b>											<b>12.7991</b>	<b>1,502.9391</b>	<b>1,515.7382</b>	<b>0.95</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>47.47</b>	<b>2.92</b>	<b>3.61</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 394,875; Residential Outdoor: 131,625; Non-Residential Indoor: 5,625; Non-Residential Outdoor: 1,875 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Architectural Coating	0	28.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	1,020.4970	1,020.4970	0.042
Unmitigated											0.0000	1,020.4970	1,020.4970	0.042

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	213.18	213.18	213.18	475,896	475,896
Condo/Townhouse	688.62	688.62	688.62	1,537,252	1,537,252
Strip Mall	280.46	280.46	280.46	431,922	431,922
<b>Total</b>	<b>1,182.26</b>	<b>1,182.26</b>	<b>1,182.26</b>	<b>2,445,069</b>	<b>2,445,069</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	P
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.627987	0.058543	0.149166	0.078755	0.026467	0.003331	0.026417	0.003903	0.003129	0.011009	0.010235	0.000550

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	217.9157	217.9157	4.180003
NaturalGas Unmitigated											0.0000	251.0341	251.0341	4.810003
Electricity Mitigated											0.0000	241.2139	241.2139	0.010003
Electricity Unmitigated											0.0000	242.7660	242.7660	0.011003

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	1.33429e+006											0.0000	71.2026	71.2026
Condo/Townhouse	3.35192e+006											0.0000	178.8710	178.8710
Strip Mall	18000											0.0000	0.9606	0.9606
<b>Total</b>												<b>0.0000</b>	<b>251.0341</b>	<b>251.0341</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	1.15768e+006											0.0000	61.7782	61.7782
Condo/Townhouse	2.91021e+006											0.0000	155.3001	155.3001
Strip Mall	15693.7											0.0000	0.8375	0.8375
<b>Total</b>												<b>0.0000</b>	<b>217.9157</b>	<b>217.9157</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	202713	58.9714	2.6700e-003	5.5000e-004	59.1984
Condo/Townhouse	588251	171.1290	7.7400e-003	1.6000e-003	171.7878
Strip Mall	43537.5	12.6656	5.7000e-004	1.2000e-004	12.7143
<b>Total</b>		<b>242.7660</b>	<b>0.0110</b>	<b>2.2700e-003</b>	<b>243.7006</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	201728	58.6851	2.6500e-003	5.5000e-004	58.9110
Condo/Townhouse	585441	170.3116	7.7000e-003	1.5900e-003	170.9673
Strip Mall	41996.3	12.2172	5.5000e-004	1.1000e-004	12.2642
<b>Total</b>		<b>241.2139</b>	<b>0.0109</b>	<b>2.2500e-003</b>	<b>242.1425</b>

### 6.0 Area Detail

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### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	0.0000	0.0000	0.0000
Unmitigated											1.2401	5.1441	6.3842	5.900003



### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											1.2401	5.1441	6.3842	5.900003
Landscaping											0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>1.2401</b>	<b>5.1441</b>	<b>6.3842</b>	<b>5.900003</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	32.8841	0.4244	0.0103	44.9754
Mitigated	26.6075	0.3395	8.2100e-003	36.2817

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	3.71378 / 2.3413	9.4080	0.1214	2.9300e-003	12.8668
Condo/Townhouse	8.99126 / 5.6684	22.7774	0.2939	7.1000e-003	31.1512
Strip Mall	0.277772 / 0.170247	0.6987	9.0800e-003	2.2000e-004	0.9574
<b>Total</b>		<b>32.8841</b>	<b>0.4244</b>	<b>0.0103</b>	<b>44.9754</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	2.97102 / 2.3413	7.6126	0.0971	2.3500e-003	10.3799
Condo/Townhouse	7.193 / 5.6684	18.4305	0.2351	5.6900e-003	25.1304
Strip Mall	0.222218 / 0.170247	0.5644	7.2600e-003	1.8000e-004	0.7714
<b>Total</b>		<b>26.6075</b>	<b>0.3395</b>	<b>8.2200e-003</b>	<b>36.2817</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.5040	0.5617	0.0000	21.2992
Unmitigated	19.0081	1.1233	0.0000	42.5983

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	26.22	5.3224	0.3146	0.0000	11.9279
Condo/Townhouse	63.48	12.8859	0.7615	0.0000	28.8781
Strip Mall	3.94	0.7998	0.0473	0.0000	1.7924
<b>Total</b>		<b>19.0081</b>	<b>1.1234</b>	<b>0.0000</b>	<b>42.5983</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	13.11	2.6612	0.1573	0.0000	5.9640
Condo/Townhouse	31.74	6.4429	0.3808	0.0000	14.4390
Strip Mall	1.97	0.3999	0.0236	0.0000	0.8962
<b>Total</b>		<b>9.5040</b>	<b>0.5617</b>	<b>0.0000</b>	<b>21.2992</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation



Phase 2

**Potrero - Alternative 1 - Operational Phase 2 - GHG**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Day-Care Center	11.00	1000sqft	0.10	11,0
Library	13.00	1000sqft	0.22	13,0
Apartments Low Rise	150.00	Dwelling Unit	5.57	150,0
Apartments Mid Rise	80.00	Dwelling Unit	1.05	80,0
Condo/Townhouse	374.00	Dwelling Unit	12.45	374,0
Strip Mall	6.25	1000sqft	0.06	6,2

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Project Characteristics - No construction - Potrero Alternative 1 Phase 2 Operational GHG Emissions

Land Use - based on project data

Construction Phase - no construction

Off-road Equipment - no construction

Vehicle Trips - based on project specifics

Woodstoves - no wood stoves or fireplaces

Energy Use - Same efficiency rates as original Proposed Project

Area Mitigation -

Water And Wastewater - Uses CalEEMod default values

Solid Waste - Uses CalEEMod default values

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title 24 standards. "mitigated" energy represents compliance with current T24 regulations.

Water Mitigation - 'Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod. "mitigated" water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste represents project compliance with California standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	82.50	83.00
tblFireplaces	NumberGas	205.70	206.00
tblFireplaces	NumberNoFireplace	46.50	67.00
tblFireplaces	NumberNoFireplace	24.80	36.00
tblFireplaces	NumberNoFireplace	115.94	168.00
tblFireplaces	NumberWood	21.00	0.00
tblFireplaces	NumberWood	11.20	0.00

tblFireplaces	NumberWood	52.36	0.00
tblLandUse	LotAcreage	0.25	0.10
tblLandUse	LotAcreage	0.30	0.22
tblLandUse	LotAcreage	9.38	5.57
tblLandUse	LotAcreage	2.11	1.05
tblLandUse	LotAcreage	23.38	12.45
tblLandUse	LotAcreage	0.14	0.06
tblLandUse	Population	429.00	342.00
tblLandUse	Population	229.00	182.00
tblLandUse	Population	1,070.00	853.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	7.16	3.74
tblVehicleTrips	ST_TR	7.16	2.49
tblVehicleTrips	ST_TR	7.16	4.99
tblVehicleTrips	ST_TR	6.21	11.37
tblVehicleTrips	ST_TR	46.55	11.37
tblVehicleTrips	ST_TR	42.04	74.79
tblVehicleTrips	SU_TR	6.07	3.74
tblVehicleTrips	SU_TR	6.07	2.49
tblVehicleTrips	SU_TR	6.07	4.99
tblVehicleTrips	SU_TR	5.83	11.37
tblVehicleTrips	SU_TR	25.49	11.37
tblVehicleTrips	SU_TR	20.43	74.79
tblVehicleTrips	WD_TR	6.59	3.74
tblVehicleTrips	WD_TR	6.59	2.49
tblVehicleTrips	WD_TR	6.59	4.99
tblVehicleTrips	WD_TR	79.26	11.37

tblVehicleTrips	WD_TR	56.24	11.37
tblVehicleTrips	WD_TR	44.32	74.79
tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00
tblWoodstoves	WoodstoveDayYear	10.82	0.00

## 2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Area											3.8610	23.3355	27.1965	0.02
Energy											0.0000	1,510.8818	1,510.8818	0.04
Mobile											0.0000	2,620.5873	2,620.5873	0.10
Waste											63.0632	0.0000	63.0632	3.72
Water											12.9105	91.4909	104.4014	1.33
<b>Total</b>											<b>79.8347</b>	<b>4,246.2954</b>	<b>4,326.1301</b>	<b>5.23</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	7.3263	7.3263	7.140003
Energy											0.0000	1,408.0254	1,408.0254	0.04
Mobile											0.0000	2,620.5873	2,620.5873	0.10
Waste											31.5316	0.0000	31.5316	1.86
Water											10.3284	74.3990	84.7274	1.06
<b>Total</b>											<b>41.8600</b>	<b>4,110.3381</b>	<b>4,152.1981</b>	<b>3.08</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>47.57</b>	<b>3.20</b>	<b>4.02</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 1,223,100; Residential Outdoor: 407,700; Non-Residential Indoor: 45,375; Non-Residential Outdoor: 15,123 (Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Architectural Coating	0	89.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	2,620.5873	2,620.5873	0.1000
Unmitigated											0.0000	2,620.5873	2,620.5873	0.1000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	561.00	561.00	561.00	1,252,357	1,252,357
Apartments Mid Rise	199.20	199.20	199.20	444,687	444,687
Condo/Townhouse	1,866.26	1,866.26	1,866.26	4,166,175	4,166,175
Day-Care Center	125.07	125.07	125.07	147,286	147,286
Library	147.81	147.81	147.81	250,517	250,517
Strip Mall	467.44	467.44	467.44	719,869	719,869
<b>Total</b>	<b>3,366.78</b>	<b>3,366.78</b>	<b>3,366.78</b>	<b>6,980,892</b>	<b>6,980,892</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Purpose
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.631289	0.058518	0.148045	0.077273	0.026007	0.003276	0.026188	0.004043	0.003129	0.010899	0.010305	0.000529

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	642.6579	642.6579	0.012
NaturalGas Unmitigated											0.0000	739.4805	739.4805	0.014
Electricity Mitigated											0.0000	765.3676	765.3676	0.03
Electricity Unmitigated											0.0000	771.4014	771.4014	0.03

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	3.51128e+006											0.0000	187.3753	187.37
Apartments Mid Rise	708294											0.0000	37.7972	37.79
Condo/Townhouse	9.08418e+006											0.0000	484.7662	484.76
Day-Care Center	189750											0.0000	10.1258	10.12
Library	333840											0.0000	17.8150	17.81
Strip Mall	30000											0.0000	1.6009	1.60
<b>Total</b>												<b>0.0000</b>	<b>739.4804</b>	<b>739.48</b>



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	3.04652e+006											0.0000	162.5741	162.57
Apartments Mid Rise	621994											0.0000	33.1920	33.19
Condo/Townhouse	7.8871e+006											0.0000	420.8857	420.88
Day-Care Center	163961											0.0000	8.7496	8.749
Library	297219											0.0000	15.8607	15.86
Strip Mall	26156.2											0.0000	1.3958	1.395
<b>Total</b>												<b>0.0000</b>	<b>642.6579</b>	<b>642.65</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	533454	155.1879	7.0200e-003	1.4500e-003	155.7853
Apartments Mid Rise	289228	84.1397	3.8000e-003	7.9000e-004	84.4637
Condo/Townhouse	1.59425e+006	463.7845	0.0210	4.3400e-003	465.5699
Day-Care Center	54670	15.9041	7.2000e-004	1.5000e-004	15.9654
Library	107510	31.2759	1.4100e-003	2.9000e-004	31.3963
Strip Mall	72562.5	21.1093	9.5000e-004	2.0000e-004	21.1905
<b>Total</b>		<b>771.4014</b>	<b>0.0349</b>	<b>7.2200e-003</b>	<b>774.3710</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	530864	154.4344	6.9800e-003	1.4400e-003	155.0289
Apartments Mid Rise	285483	83.0504	3.7600e-003	7.8000e-004	83.3701
Condo/Townhouse	1.58663e+006	461.5692	0.0209	4.3200e-003	463.3461
Day-Care Center	53333.5	15.5153	7.0000e-004	1.5000e-004	15.5751
Library	104624	30.4363	1.3800e-003	2.8000e-004	30.5535
Strip Mall	69993.8	20.3620	9.2000e-004	1.9000e-004	20.4404
<b>Total</b>		<b>765.3676</b>	<b>0.0346</b>	<b>7.1600e-003</b>	<b>768.3140</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Mitigated											0.0000	7.3263	7.3263	7.140003
Unmitigated											3.8610	23.3355	27.1965	0.02

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.00
Consumer Products											0.0000	0.0000	0.0000	0.00
Hearth											3.8610	16.0091	19.8701	0.01
Landscaping											0.0000	7.3263	7.3263	7.140003
<b>Total</b>											<b>3.8610</b>	<b>23.3355</b>	<b>27.1965</b>	<b>0.02</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	7.3263	7.3263	7.140003
<b>Total</b>											<b>0.0000</b>	<b>7.3263</b>	<b>7.3263</b>	<b>7.140003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	104.4014	1.3302	0.0322	142.3065
Mitigated	84.7274	1.0642	0.0257	115.0562

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	9.7731 / 6.1613	24.7580	0.3194	7.7200e-003	33.8600
Apartments Mid Rise	5.21232 / 3.28603	13.2043	0.1704	4.1200e-003	18.0587
Condo/Townhouse	24.3676 / 15.3622	61.7299	0.7965	0.0193	84.4242
Day-Care Center	0.471785 / 1.21316	2.1276	0.0155	3.8000e-004	2.5705
Library	0.406756 / 0.636208	1.4171	0.0133	3.3000e-004	1.7974
Strip Mall	0.462953 / 0.283746	1.1645	0.0151	3.7000e-004	1.5957
<b>Total</b>		<b>104.4014</b>	<b>1.3302</b>	<b>0.0322</b>	<b>142.3065</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	7.81848 / 6.1613	20.0332	0.2556	6.1800e-003	27.3156
Apartments Mid Rise	4.16986 / 3.28603	10.6843	0.1363	3.3000e-003	14.5683
Condo/Townhouse	19.4941 / 15.3622	49.9493	0.6372	0.0154	68.1069
Day-Care Center	0.377428 / 1.21316	1.8995	0.0124	3.1000e-004	2.2546
Library	0.325405 / 0.636208	1.2205	0.0107	2.6000e-004	1.5251
Strip Mall	0.370363 / 0.283746	0.9407	0.0121	2.9000e-004	1.2857
<b>Total</b>		<b>84.7274</b>	<b>1.0642</b>	<b>0.0258</b>	<b>115.0562</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5316	1.8635	0.0000	70.6644
Unmitigated	63.0632	3.7269	0.0000	141.3287

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	69	14.0064	0.8278	0.0000	31.3892
Apartments Mid Rise	36.8	7.4701	0.4415	0.0000	16.7409
Condo/Townhouse	172.04	34.9226	2.0639	0.0000	78.2637
Day-Care Center	14.3	2.9028	0.1716	0.0000	6.5053
Library	11.97	2.4298	0.1436	0.0000	5.4453
Strip Mall	6.56	1.3316	0.0787	0.0000	2.9843
<b>Total</b>		<b>63.0632</b>	<b>3.7269</b>	<b>0.0000</b>	<b>141.3287</b>



## 8.2 Waste by Land Use


### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	34.5	7.0032	0.4139	0.0000	15.6946
Apartments Mid Rise	18.4	3.7350	0.2207	0.0000	8.3705
Condo/Townhouse	86.02	17.4613	1.0319	0.0000	39.1319
Day-Care Center	7.15	1.4514	0.0858	0.0000	3.2527
Library	5.985	1.2149	0.0718	0.0000	2.7227
Strip Mall	3.28	0.6658	0.0394	0.0000	1.4921
<b>Total</b>		<b>31.5316</b>	<b>1.8635</b>	<b>0.0000</b>	<b>70.6644</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation



Phase 3

**Potrero - Alternative 1 - Operational Phase 3 - GHG Only**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Su
Apartments Low Rise	139.00	Dwelling Unit	3.84	139,
Condo/Townhouse	342.00	Dwelling Unit	8.49	342,
Strip Mall	5.00	1000sqft	0.03	5,0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - No construction - GHG Analysis only for Alternative 1 Phase 3 operational activities

Land Use - based on project data

Construction Phase - no construction

Off-road Equipment - no construction

Vehicle Trips - based on project specifics

Woodstoves - no wood stoves or fireplaces

Energy Use - same as original Proposed Project

Area Mitigation -

Water And Wastewater - Uses CalEEMod defaults

Solid Waste - Uses CalEEMod defaults

Energy Mitigation - CalEEMod assumes 2008 Title 24 standards. Current Title 24 standards are 15% more efficient than 2008 Title 24 standards. "mitigated" energy represents compliance with current T24 regulations.

Water Mitigation - Current Title 24 regulations require a 20 percent reduction in indoor water use that is not accounted for in CalEEMod. "mitigated" water represents project compliance with Title 24 water reduction requirements.

Waste Mitigation - California has achieved a 50% diversion rate overall that is not accounted for in CalEEMod. Therefore "mitigated" waste represents project compliance with California standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	76.45	76.00
tblFireplaces	NumberGas	188.10	188.00
tblFireplaces	NumberNoFireplace	43.09	63.00
tblFireplaces	NumberNoFireplace	106.02	154.00
tblFireplaces	NumberWood	19.46	0.00
tblFireplaces	NumberWood	47.88	0.00
tblLandUse	LotAcreage	8.69	3.84



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											3.0811	18.5260	21.6071	0.02
Energy											0.0000	1,203.001 3	1,203.001 3	0.03
Mobile											0.0000	1,983.137 3	1,983.137 3	0.06
Waste											45.9795	0.0000	45.9795	2.71
Water											10.0600	70.2623	80.3223	1.03
<b>Total</b>											<b>59.1206</b>	<b>3,274.926 9</b>	<b>3,334.047 4</b>	<b>3.87</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	5.8340	5.8340	5.600003
Energy											0.0000	1,118.1181	1,118.1181	0.03
Mobile											0.0000	1,983.1373	1,983.1373	0.06
Waste											22.9897	0.0000	22.9897	1.35
Water											8.0480	56.9442	64.9922	0.82
<b>Total</b>											<b>31.0377</b>	<b>3,164.0337</b>	<b>3,195.0714</b>	<b>2.29</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>47.50</b>	<b>3.39</b>	<b>4.17</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2015	12/31/2014	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 974,025; Residential Outdoor: 324,675; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Architectural Coating	0	70.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	1,983.1373	1,983.1373	0.067
Unmitigated											0.0000	1,983.1373	1,983.1373	0.067

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	519.86	519.86	519.86	1,160,518	1,160,518
Condo/Townhouse	1,706.58	1,706.58	1,706.58	3,809,711	3,809,711
Strip Mall	373.95	373.95	373.95	575,895	575,895
<b>Total</b>	<b>2,600.39</b>	<b>2,600.39</b>	<b>2,600.39</b>	<b>5,546,124</b>	<b>5,546,124</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Purpose
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.630595	0.058339	0.148512	0.076667	0.026101	0.003237	0.027111	0.004202	0.003186	0.010720	0.010339	0.000503

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	536.6428	536.6428	0.0100
NaturalGas Unmitigated											0.0000	618.2041	618.2041	0.0110
Electricity Mitigated											0.0000	581.4754	581.4754	0.0200
Electricity Unmitigated											0.0000	584.7972	584.7972	0.0200

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	3.25379e+006											0.0000	173.6345	173.63
Condo/Townhouse	8.30692e+006											0.0000	443.2889	443.28
Strip Mall	24000											0.0000	1.2807	1.280
<b>Total</b>												<b>0.0000</b>	<b>618.2041</b>	<b>618.20</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total C
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	2.82311e+006											0.0000	150.6520	150.65
Condo/Townhouse	7.21227e+006											0.0000	384.8741	384.87
Strip Mall	20925											0.0000	1.1166	1.116
<b>Total</b>												<b>0.0000</b>	<b>536.6428</b>	<b>536.64</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	494334	143.8074	6.5000e-003	1.3500e-003	144.3611
Condo/Townhouse	1.45784e+006	424.1024	0.0192	3.9700e-003	425.7350
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
<b>Total</b>		<b>584.7972</b>	<b>0.0264</b>	<b>5.4800e-003</b>	<b>587.0485</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	491934	143.1092	6.4700e-003	1.3400e-003	143.6601
Condo/Townhouse	1.45088e+006	422.0766	0.0191	3.9500e-003	423.7015
Strip Mall	55995	16.2896	7.4000e-004	1.5000e-004	16.3523
<b>Total</b>		<b>581.4754</b>	<b>0.0263</b>	<b>5.4400e-003</b>	<b>583.7139</b>

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	5.8340	5.8340	5.600003
Unmitigated											3.0811	18.5260	21.6071	0.02

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											3.0811	12.6919	15.7731	0.0140
Landscaping											0.0000	5.8340	5.8340	5.6000003
<b>Total</b>											<b>3.0811</b>	<b>18.5260</b>	<b>21.6071</b>	<b>0.0280</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	5.8340	5.8340	5.6000003
<b>Total</b>											<b>0.0000</b>	<b>5.8340</b>	<b>5.8340</b>	<b>5.6000003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	80.3223	1.0364	0.0251	109.8542
Mitigated	64.9922	0.8292	0.0201	88.6206

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	9.05641 / 5.70948	22.9424	0.2960	7.1600e-003	31.3769
Condo/Townhouse	22.2827 / 14.0478	56.4482	0.7283	0.0176	77.2008
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2765
<b>Total</b>		<b>80.3223</b>	<b>1.0364</b>	<b>0.0251</b>	<b>109.8542</b>



## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	7.24513 / 5.70948	18.5641	0.2368	5.7300e-003	25.3125
Condo/Townhouse	17.8261 / 14.0478	45.6756	0.5827	0.0141	62.2796
Strip Mall	0.29629 / 0.226996	0.7526	9.6800e-003	2.3000e-004	1.0285
<b>Total</b>		<b>64.9922</b>	<b>0.8292</b>	<b>0.0201</b>	<b>88.6206</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.9897	1.3587	0.0000	51.5215
Unmitigated	45.9795	2.7173	0.0000	103.0430

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	63.94	12.9792	0.7671	0.0000	29.0873
Condo/Townhouse	157.32	31.9345	1.8873	0.0000	71.5674
Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
<b>Total</b>		<b>45.9795</b>	<b>2.7173</b>	<b>0.0000</b>	<b>103.0430</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	31.97	6.4896	0.3835	0.0000	14.5437
Condo/Townhouse	78.66	15.9673	0.9436	0.0000	35.7837
Strip Mall	2.625	0.5329	0.0315	0.0000	1.1942
<b>Total</b>		<b>22.9897</b>	<b>1.3587</b>	<b>0.0000</b>	<b>51.5215</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation

## **ATTACHMENT C**

Existing and Alternative 2 CalEEMod Summary and Output

**Potrero HOPE  
Existing GHG Inventory**

<b><i>Unmitigated Existing Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	2,782.97
Energy	1,340.18
Solid Waste	56.18
Area Sources	6.54
Water/Wastewater	119.78
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>4,305.65</b>

**Potrero HOPE  
Alternative 2 GHG Inventory**

<b><i>Unmitigated Alternative 2 Emissions</i></b>	<b>CO<sub>2</sub>e</b>
Motor Vehicle Trips	2,782.97
Energy	1,246.21
Solid Waste	56.18
Area Sources	6.54
Water/Wastewater	96.69
Stationary Source	0.00
<b>Total Unmitigated Operational GHG Emissions</b>	<b>4,188.58</b>

## Potrero Existing and Alternative 2 Operational - GHG Emissions San Francisco County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Su
Day-Care Center	3.50	1000sqft	0.09	3,5
Apartments Low Rise	45.00	Dwelling Unit	3.32	45,0
Condo/Townhouse	482.00	Dwelling Unit	35.78	482,

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2012
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - GHG Quantification for NEPA Purposes

Land Use - Information based on project specific data.

Construction Phase - No Construction

Off-road Equipment - No construction activities

Vehicle Trips - Based on project specific data.

Woodstoves - None of the existing residences have fireplaces or wood burning stoves.

Energy Use - Uses program defaults for historical data because of the age of the development.

Area Coating - Based on BAAQMD regulations for painting.

Water And Wastewater - Using program defaults

Solid Waste - uses program defaults

Area Mitigation -

Energy Mitigation - This version is based on 2008 Title 24. Current Title 24 standards are 15% more efficient than 2008 Title 24 standards represent Alternative 2 emissions for this level of housing.

Water Mitigation - Current California Title 24 standards require a reduction of 20% potable water use. Mitigation used to represent op Alternative 2

Waste Mitigation - California has achieved a 50% diversion rate overall with a goal of 75%. 50% is applied to both the existing and AL

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	0	150
tblAreaCoating	Area_EF_Nonresidential_Interior	0	100
tblAreaCoating	Area_EF_Residential_Exterior	0	150
tblAreaCoating	Area_EF_Residential_Interior	0	100
tblConstructionPhase	NumDays	50.00	0.00
tblEnergyUse	LightingElect	3.11	2.89
tblEnergyUse	T24E	143.36	115.12
tblEnergyUse	T24E	169.05	135.74
tblEnergyUse	T24E	0.86	0.81
tblEnergyUse	T24NG	22,210.61	20,655.87
tblEnergyUse	T24NG	22,944.34	21,338.24



tblEnergyUse	T24NG	17.50	15.63
tblFireplaces	FireplaceDayYear	4.29	0.00
tblFireplaces	FireplaceDayYear	4.29	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	92.40	0.00
tblFireplaces	FireplaceWoodMass	92.40	0.00
tblFireplaces	NumberGas	24.75	0.00
tblFireplaces	NumberGas	265.10	0.00
tblFireplaces	NumberNoFireplace	13.95	482.00
tblFireplaces	NumberNoFireplace	149.42	0.00
tblFireplaces	NumberWood	6.30	0.00
tblFireplaces	NumberWood	67.48	0.00
tblLandUse	LotAcreage	0.08	0.09
tblLandUse	LotAcreage	2.81	3.32
tblLandUse	LotAcreage	30.13	35.78
tblLandUse	Population	129.00	108.00
tblLandUse	Population	1,379.00	1,092.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2012
tblVehicleTrips	ST_TR	7.16	3.74
tblVehicleTrips	ST_TR	7.16	4.99
tblVehicleTrips	ST_TR	6.21	11.37
tblVehicleTrips	SU_TR	6.07	3.74
tblVehicleTrips	SU_TR	6.07	4.99
tblVehicleTrips	SU_TR	5.83	11.37



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	6.3919	6.3919	7.220003
Energy											0.0000	1,333.5149	1,333.5149	0.042
Mobile											0.0000	2,779.6802	2,779.6802	0.158
Waste											50.1327	0.0000	50.1327	2.962
Water											10.9409	76.7191	87.6600	1.122
<b>Total</b>											<b>61.0736</b>	<b>4,196.3062</b>	<b>4,257.3798</b>	<b>4.292</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
Category	tons/yr										MT/yr			
Area											0.0000	6.3919	6.3919	7.220003
Energy											0.0000	1,240.1046	1,240.1046	0.04
Mobile											0.0000	2,779.6802	2,779.6802	0.15
Waste											25.0663	0.0000	25.0663	1.48
Water											8.7527	62.2348	70.9875	0.90
<b>Total</b>											<b>33.8191</b>	<b>4,088.4116</b>	<b>4,122.2306</b>	<b>2.58</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.63	2.57	3.17

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

Acres of Grading (Site Preparation Phase): 0

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	0	8.00	162	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class
Demolition	0	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mi

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	2,779.6802	2,779.6802	0.156
Unmitigated											0.0000	2,779.6802	2,779.6802	0.156

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	168.30	168.30	168.30	375,707	375,707
Condo/Townhouse	2,405.18	2,405.18	2,405.18	5,369,242	5,369,242
Day-Care Center	39.80	39.80	39.80	46,864	46,864
<b>Total</b>	<b>2,613.28</b>	<b>2,613.28</b>	<b>2,613.28</b>	<b>5,791,813</b>	<b>5,791,813</b>

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	P
Apartments Low Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	
Day-Care Center	9.50	7.30	7.30	12.70	82.30	5.00	28	58	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS
0.624832	0.058596	0.149807	0.082719	0.027542	0.003500	0.024523	0.003291	0.003123	0.011176	0.009827	0.000565

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
NaturalGas Mitigated											0.0000	593.9811	593.9811	0.011
NaturalGas Unmitigated											0.0000	684.1866	684.1866	0.013
Electricity Mitigated											0.0000	646.1235	646.1235	0.029
Electricity Unmitigated											0.0000	649.3283	649.3283	0.029

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	1.05338e+006											0.0000	56.2126	56.2126
Condo/Townhouse	1.17074e+007											0.0000	624.7522	624.7522
Day-Care Center	60375											0.0000	3.2218	3.2218
<b>Total</b>												<b>0.0000</b>	<b>684.1866</b>	<b>684.1866</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2
Land Use	kBTU/yr	tons/yr												
Apartments Low Rise	913957											0.0000	48.7722	48.7722
Condo/Townhouse	1.01647e+007											0.0000	542.4249	542.4249
Day-Care Center	52169.3											0.0000	2.7840	2.7840
<b>Total</b>												<b>0.0000</b>	<b>593.9811</b>	<b>593.9811</b>



### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	160036	46.5564	2.1100e-003	4.4000e-004	46.7356
Condo/Townhouse	2.05462e+006	597.7115	0.0270	5.5900e-003	600.0125
Day-Care Center	17395	5.0604	2.3000e-004	5.0000e-005	5.0799
<b>Total</b>		<b>649.3283</b>	<b>0.0294</b>	<b>6.0800e-003</b>	<b>651.8280</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	159259	46.3303	2.0900e-003	4.3000e-004	46.5087
Condo/Townhouse	2.0448e+006	594.8565	0.0269	5.5700e-003	597.1465
Day-Care Center	16969.8	4.9367	2.2000e-004	5.0000e-005	4.9557
<b>Total</b>		<b>646.1235</b>	<b>0.0292</b>	<b>6.0500e-003</b>	<b>648.6109</b>

### 6.0 Area Detail

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### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
Category	tons/yr										MT/yr			
Mitigated											0.0000	6.3919	6.3919	7.220003
Unmitigated											0.0000	6.3919	6.3919	7.220003

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	6.3919	6.3919	7.220003
<b>Total</b>											<b>0.0000</b>	<b>6.3919</b>	<b>6.3919</b>	<b>7.220003</b>

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH <sub>4</sub>
SubCategory	tons/yr										MT/yr			
Architectural Coating											0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	6.3919	6.3919	7.220003
<b>Total</b>											<b>0.0000</b>	<b>6.3919</b>	<b>6.3919</b>	<b>7.220003</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	87.6600	1.1272	0.0273	119.7793
Mitigated	70.9875	0.9018	0.0218	96.6862

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	2.93193 / 1.84839	7.4274	0.0958	2.3200e-003	10.1580
Condo/Townhouse	31.4042 / 19.7983	79.5557	1.0265	0.0248	108.8034
Day-Care Center	0.150113 / 0.386006	0.6770	4.9200e-003	1.2000e-004	0.8179
<b>Total</b>		<b>87.6600</b>	<b>1.1272</b>	<b>0.0273</b>	<b>119.7793</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	2.34554 / 1.84839	6.0099	0.0767	1.8500e-003	8.1947
Condo/Townhouse	25.1234 / 19.7983	64.3732	0.8212	0.0199	87.7742
Day-Care Center	0.120091 / 0.386006	0.6044	3.9400e-003	1.0000e-004	0.7174
<b>Total</b>		<b>70.9875</b>	<b>0.9018</b>	<b>0.0218</b>	<b>96.6862</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.0663	1.4814	0.0000	56.1753
Unmitigated	50.1327	2.9628	0.0000	112.3506

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	20.7	4.2019	0.2483	0.0000	9.4168
Condo/Townhouse	221.72	45.0072	2.6599	0.0000	100.8639
Day-Care Center	4.55	0.9236	0.0546	0.0000	2.0699
<b>Total</b>		<b>50.1327</b>	<b>2.9628</b>	<b>0.0000</b>	<b>112.3506</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	10.35	2.1010	0.1242	0.0000	4.7084
Condo/Townhouse	110.86	22.5036	1.3299	0.0000	50.4320
Day-Care Center	2.275	0.4618	0.0273	0.0000	1.0349
<b>Total</b>		<b>25.0663</b>	<b>1.4814</b>	<b>0.0000</b>	<b>56.1753</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor
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## 10.0 Vegetation

## **ATTACHMENT D**

Generator Emissions



**Potrero HOPE  
Generator GHG Inventory**

Diesel Generator		
Fuel consumption:	53.6 gal/hr	assuming full load
Annual permitted operation:	50 hrs	
Total Annual consumption:	2680 gal/year	
CO2/gallon	10.15 kg CO2/gal	
	27,202.00 kg Co2/year	
	1,000.00 kg/MT	
	27.202 MT CO2/year	
	1 Global warming potential for CH4	
	27.202 MT CO2e/year	
CH4/gallon	0.58 g CH4/gallon	
	1554.4 g CH4/year	
	1000 g/kg	
	1.5544 kg/year	
	0.001554 MT CH4/year	
	21 Global warming potential for CH4	
	0.032642 MT CO2e/year	
N2O/gallon	0.26 g N2O/gallon	
	696.8 g CH4/year	
	1000 g/kg	
	0.6968 kg/year	
	0.000697 MT CH4/year	
	310 Global warming potential for CH4	
	0.216008 MT CO2e/year	
CO2e/year	27.45065	

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# Diesel Generator Set



Image shown may not reflect actual package

## Standby 750 kW 938 kVA 60 Hz 1800 rpm 480 Volts

Caterpillar is leading the power generation Market place with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

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### FUEL/EMISSIONS STRATEGY

- EPA Certified for Stationary Emergency Application (EPA Tier 2 emissions level)

### DESIGN CRITERIA

- The generator set accepts 100% rated load in one step per NFPA 110 and meets ISO 8528-5 transient response.

### UL 2200

- UL 2200 packages available. Certain restrictions may apply. Consult with your Cat® dealer.

### FULL RANGE OF ATTACHMENTS

- Wide range of bolt-on system expansion attachments, factory designed and tested
- Flexible packaging options for easy and cost effective installation

### SINGLE-SOURCE SUPPLIER

- Fully prototype tested with certified torsional vibration analysis available

### WORLDWIDE PRODUCT SUPPORT

- Cat® dealers provide extensive post sale support including maintenance and repair agreements
- Cat dealers have over 1,800 dealer branch stores operating in 200 countries.
- The Cat® S•O•S<sup>SM</sup> program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by products.

### CAT C27 ATAAC DIESEL ENGINE

- Utilizes ACERT™ Technology
- Reliable, rugged, durable design
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight

### CAT GENERATOR

- Matched to the performance and output characteristics of Caterpillar engines
- Single point access to accessory connections
- UL 1446 Recognized Class H insulation

### CAT EMCP 4 CONTROL PANELS

- Simple user friendly interface and navigation
- Scalable system to meet a wide range of customer needs
- Integrated Control System and Communications Gateway

# STANDBY 750 kW 938 kVA

60 Hz 1800 rpm 480 Volts



## Factory Installed Standard & Optional Equipment

System	Standard	Optional
Air Inlet	<ul style="list-style-type: none"> <li>• Single element canister type air cleaner with service indicator</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Dual element air cleaners</li> <li><input type="checkbox"/> Air inlet adapters</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>• Radiator with guard</li> <li>• Fan and belt guards</li> <li>• Coolant drain line with valve</li> <li>• Coolant level sensors</li> <li>• Cat Extended Life Coolant</li> </ul>	
Exhaust	<ul style="list-style-type: none"> <li>• Exhaust manifold - dry</li> <li>• Flanged outlet</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Mufflers</li> <li><input type="checkbox"/> Stainless steel exhaust flex fittings</li> <li><input type="checkbox"/> Elbows, flanges, expanders, &amp; Y adapters</li> </ul>
Fuel	<ul style="list-style-type: none"> <li>• Primary fuel filter with water separator</li> <li>• Secondary fuel filters</li> <li>• Fuel priming pump</li> <li>• Flexible fuel lines terminated at base</li> </ul>	
Generator	<ul style="list-style-type: none"> <li>• 3 Phase brushless, Salient pole</li> <li>• Class H insulation</li> <li>• Cat digital voltage regulator (CDVR) with VAR/PF control, 3-phase sensing</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Oversize &amp; premium generators</li> <li><input type="checkbox"/> Winding temperature detectors</li> <li><input type="checkbox"/> Anti-condensation space heaters</li> </ul>
Power Termination	<ul style="list-style-type: none"> <li>• Bus bar (NEMA mechanical lug holes)</li> <li>• Top cable entry</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Circuit breakers, UL listed, 3 pole shunt trip, 100% rated, choice of trip units, manual or electrically operated</li> <li><input type="checkbox"/> Bottom cable entry</li> <li><input type="checkbox"/> Right, left, and/or rear power termination</li> </ul>
Governor	<ul style="list-style-type: none"> <li>• ADEM™ A4</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Load share module</li> </ul>
Control Panel	<ul style="list-style-type: none"> <li>• EMCP 4.2 Genset Controller</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> EMCP 4.3 genset controller</li> <li><input type="checkbox"/> EMCP 4.4 genset controller</li> <li><input type="checkbox"/> Local &amp; remote annunciator modules</li> <li><input type="checkbox"/> Digital I/O Module</li> <li><input type="checkbox"/> Generator temperature monitoring &amp; protection</li> </ul>
Lube	<ul style="list-style-type: none"> <li>• Lubricating oil</li> <li>• Gear type lube oil pump</li> <li>• Integral lube oil cooler</li> <li>• Oil filter, filler and dipstick</li> <li>• Oil drain line and valve</li> </ul>	
Mounting	<ul style="list-style-type: none"> <li>• Rails - engine / generator / radiator mounting</li> <li>• Rubber anti-vibration mounts (shipped loose)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Spring type vibration isolator</li> <li><input type="checkbox"/> IBC 2006 seismic certification</li> </ul>
Starting / Charging	<ul style="list-style-type: none"> <li>• 24 volt starting motor(s)</li> <li>• Batteries with rack and cables</li> <li>• Battery disconnect switch</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Battery charger</li> <li><input type="checkbox"/> Oversize batteries</li> <li><input type="checkbox"/> Heavy duty starting motors</li> <li><input type="checkbox"/> Jacket water heater</li> </ul>
General	<ul style="list-style-type: none"> <li>• Right hand service</li> <li>• Paint – Caterpillar Yellow except rails and radiators gloss black</li> <li>• SAE standard rotation</li> <li>• Flywheel and flywheel housing – SAE No. 0</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> UL 2200 listed</li> <li><input type="checkbox"/> CSA Certification</li> </ul>

# STANDBY 750 kW 938 kVA

60 Hz 1800 rpm 480 Volts



## SPECIFICATIONS

### CAT GENERATOR

Frame .....	596
Excitation .....	PM
Pitch.....	0.8667
Number of poles.....	4
Number of leads.....	6
Number of bearings .....	Single Bearing
Insulation .....	Class H
IP rating .....	Drip proof IP22
Over speed capability - % of rated.....	125%
Wave form deviation.....	2 %
Voltage regulator.....	3 phase sensing with load adjustable module
Voltage regulation....	Less than $\pm 1/2\%$ (steady state) Less than $\pm 1/2\%$ (3% speed change)

### CAT DIESEL ENGINE

C27 ATAAC, V-12, 4 stroke, water-cooled diesel

Bore .....	137.20 mm (5.4 in)
Stroke .....	152.40 mm (6.0 in)
Displacement .....	27.03 L (1649.47 in <sup>3</sup> )
Compression ratio.....	16.5:1
Aspiration.....	TA
Fuel system.....	MEUI
Governor Type.....	ADEM™ A4

### CAT EMCP 4 CONTROL PANELS

EMCP 4 controls including:

- Run / Auto / Stop Control
- Speed & Voltage Adjust
- Engine Cycle Crank
- Emergency stop pushbutton

EMCP 4.2 controller features:

- 24-volt DC operation
- Environmental sealed front face
- Text alarm/event descriptions

Digital indication for:

- RPM
- DC volts
- Operating hours
- Oil pressure (psi, kPa or bar)
- Coolant temperature
- Volts (L-L & L-N), frequency (Hz)
- Amps (per phase & average)
- Power Factor (per phase & average)
- kW (per phase, average & percent)
- kVA (per phase, average & percent)
- kVAr (per phase, average & percent)
- kW-hr & kVAr-hr (total)

Warning/shutdown with common LED indication of shutdowns for:

- Low oil pressure
- High coolant temperature
- Overspeed
- Emergency stop
- Failure to start (overcrank)
- Low coolant temperature
- Low coolant level

Programmable protective relaying functions:

- Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under Frequency (81 o/u)
- Reverse Power (kW) (32)
- Reverse Reactive Power (kVAr) (32RV)
- Overcurrent (50/51)

Communications

- Customer data link (Modbus RTU)
- Accessory module data link
- Serial annunciator module data link

- 6 programmable digital inputs
- 4 programmable relay outputs (Form A)
- 2 programmable relay outputs (Form C)
- 2 programmable digital outputs

Compatible with the following optional modules:

- Digital I/O module
- Local Annunciator
- Remote annunciator
- RTD module
- Thermocouple module

# STANDBY 750 ekW 938 kVA

60 Hz 1800 rpm 480 Volts



## TECHNICAL DATA

Open Generator Set - - 1800 rpm/60 Hz/480 Volts	DM9071	
EPA Certified for Stationary Emergency Application (EPA Tier 2 emissions levels)		
<b>Generator Set Package Performance</b> Genset Power rating @ 0.8 pf Genset Power rating with fan	937.5 kVA 750 ekW	
<b>Fuel Consumption</b> 100% load with fan 75% load with fan 50% load with fan	202.9 L/hr 162.4 L/hr 116.2 L/hr	53.6 Gal/hr 42.9 Gal/hr 30.7 Gal/hr
<b>Cooling System<sup>1</sup></b> Air flow restriction (system) Air flow (max @ rated speed for radiator arrangement) Engine Coolant capacity with radiator/exp. tank Engine coolant capacity Radiator coolant capacity	0.12 kPa 1136 m <sup>3</sup> /min 160.0 L 55.0 L 105.0 L	0.48 in. water 40117 cfm 42.3 gal 14.5 gal 27.7 gal
<b>Inlet Air</b> Combustion air inlet flow rate	58.7 m <sup>3</sup> /min	2073.0 cfm
<b>Exhaust System</b> Exhaust stack gas temperature Exhaust gas flow rate Exhaust flange size (internal diameter) Exhaust system backpressure (maximum allowable)	509.3 ° C 158.9 m <sup>3</sup> /min 203 mm 10.0 kPa	948.7 ° F 5611.5 cfm 8 in 40.2 in. water
<b>Heat Rejection</b> Heat rejection to coolant (total) Heat rejection to exhaust (total) Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator	324 kW 742 kW 138 kW 100 kW 34.5 kW	18426 Btu/min 42197 Btu/min 7848 Btu/min 5687 Btu/min 1962.0 Btu/min
<b>Alternator<sup>2</sup></b> Motor starting capability @ 30% voltage dip Frame Temperature Rise	2034 skVA 596 130 ° C	234 ° F
<b>Lube System</b> Sump refill with filter	68.0 L	18.0 gal
<b>Emissions (Nominal)<sup>3</sup></b> NOx g/hp-hr CO g/hp-hr HC g/hp-hr PM g/hp-hr	5.25 g/hp-hr .25 g/hp-hr .03 g/hp-hr .021 g/hp-hr	

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

<sup>2</sup> Generator temperature rise is based on a 40°C ambient per NEMA MG1-32. UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics.

<sup>3</sup> Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77°F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 btu/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

# STANDBY 750 ekW 938 kVA

60 Hz 1800 rpm 480 Volts



## RATING DEFINITIONS AND CONDITIONS

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**Meets or Exceeds International Specifications:** · AS1359, CSA, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, UL508A, 72/23/EEC, 98/37/EC, 2004/108/EC

**Standby** - Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year. Standby power in accordance with ISO8528. Fuel stop power in accordance with ISO3046. Standby ambients shown indicate ambient temperature at 100% load which results in a coolant top tank temperature just below the shutdown temperature.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions

**Fuel Rates** are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

# STANDBY 750 ekW 938 kVA

60 Hz 1800 rpm 480 Volts



## DIMENSIONS

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Package Dimensions		
Length	4191 mm	165.0 in
Width	1823 mm	71.8 in
Height	2188 mm	86.1 in

NOTE: For reference only - do not use for installation design. Please contact your local dealer for exact weight and dimensions.

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

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