
APPENDIX IV.E
Air Quality Technical Data

**HERALD EXAMINER
Wintertime Area Source Emissions**

| | ROG | Nox | CO | SO2 | PM10 |
|-------------------------------|--------------|-------------|-------------|-------------|-------------|
| Multi-family | | | | | |
| Natural Gas | | | | | |
| 12th Street | 0.19 | 2.41 | 1.02 | 0.00 | 0.00 |
| Press | 0.15 | 1.93 | 0.82 | 0.00 | 0.00 |
| Subtotals | 0.34 | 4.34 | 1.84 | 0.00 | 0.00 |
| Hearth | | | | | |
| 12th Street | -- | -- | -- | -- | -- |
| Press | -- | -- | -- | -- | -- |
| Landcaping | | | | | |
| 12th Street | -- | -- | -- | -- | -- |
| Press | -- | -- | -- | -- | -- |
| Consumer Products | | | | | |
| 12th Street | 15.61 | -- | -- | -- | -- |
| Press | 12.52 | -- | -- | -- | -- |
| Subtotals | 28.13 | | | | |
| Architectural Coatings | | | | | |
| 12th Street | 3.05 | | | | |
| Press | 2.45 | | | | |
| Subtotals | 5.50 | | | | |
| M-F SUBTOTALS | 33.97 | 4.34 | 1.84 | 0.00 | 0.00 |
| Commercial | | | | | |
| Natural Gas | | | | | |
| 12th Street | 0.01 | 0.08 | 0.07 | 0.00 | 0.00 |
| Press | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 |
| Broadway | 0.04 | 0.55 | 0.46 | 0.00 | 0.00 |
| Subtotals | 0.05 | 0.65 | 0.55 | 0.00 | 0.00 |
| Hearth | | | | | |
| 12th Street | -- | -- | -- | -- | -- |
| Press | -- | -- | -- | -- | -- |
| Broadway | -- | -- | -- | -- | -- |
| Landcaping | | | | | |
| 12th Street | -- | -- | -- | -- | -- |
| Press | -- | -- | -- | -- | -- |
| Broadway | -- | -- | -- | -- | -- |
| Subtotals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | | | | | |
| 12th Street | 0.00 | -- | -- | -- | -- |
| Press | 0.00 | -- | -- | -- | -- |
| Broadway | 0.00 | -- | -- | -- | -- |
| Subtotals | 0.00 | | | | |
| Architectural Coatings | | | | | |
| 12th Street | 0.11 | -- | -- | -- | -- |
| Press | 0.04 | -- | -- | -- | -- |
| Broadway | 0.96 | -- | -- | -- | -- |
| Subtotals | 1.11 | | | | |
| SUBTOTALS | 1.16 | 0.65 | 0.55 | 0.00 | 0.00 |
| TOTAL AREA SOURCE | 35.13 | 4.99 | 2.39 | 0.00 | 0.00 |

Notes: No hearths proposed within project; no wintertime landscaping assumed.

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Summertime Emissions

| Input Fields | | Unmitigated Emissions - Lbs. per Day | | | |
|--|-------------------------------------|--------------------------------------|-------------|-----------------|------------------|
| Land Use Emissions Based on URBEMIS2002 Version 8.7.0 Air Quality Modeling | | CO | VOC | NO _x | PM ₁₀ |
| High Rise Apartments | Vehicular Sources | 244.9 | 26.3 | 21.7 | 25.8 |
| | Natural Gas | 1.8 | 0.3 | 4.3 | 0.0 |
| | Consumer Products | | 28.1 | | |
| | Wood Burning Fire Places and Stoves | | | | |
| | Architectural Coatings | | 5.5 | | |
| | Landscaping Area Source | 1.3 | 0.2 | 0.0 | 0.0 |
| Commercial Uses | Vehicular Sources | 174.1 | 15.8 | 16.4 | 15.3 |
| | Natural Gas | 0.6 | 0.1 | 0.7 | |
| | Consumer Products | | | | |
| | Architectural Coatings | | 1.1 | | |
| | Landscaping Area Source | 2.7 | 0.4 | 0.0 | |
| | Vehicular Sources | 419.0 | 42.0 | 38.1 | 41.1 |
| | Natural Gas | 2.4 | 0.4 | 5.0 | 0.0 |
| | Consumer Products | 0.0 | 28.1 | 0.0 | 0.0 |
| | Architectural Coatings | 0.0 | 6.6 | 0.0 | 0.0 |
| | Landscaping Area Source | 4.0 | 0.6 | 0.0 | 0.0 |
| | Wood Burning Fire Places and Stoves | 0.0 | 0.0 | 0.0 | 0.0 |
| | Total Emissions | 425.4 | 77.8 | 43.1 | 41.1 |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Summertime Emissions

| Recommended (Measures already incorporated into Project are marked "No.") | | | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES |
|---|----|--|-------------------------------|-------|-----------------|------------------|-------------------------------------|-----|-----------------|------------------|---|
| Yes | No | MEASURES, EFFICIENCIES, AND REDUCTIONS | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | |
| Natural Gas Emissions Controls | | | | | | | | | | | |
| <i>All Residential Uses</i> | | | | | | | | | | | |
| X | | Use solar or low emission water heaters | 10.0% | 11.0% | 9.5% | 4.5% | 0.2 | 0.0 | 0.4 | 0.0 | |
| X | | Use built-in energy-efficient appliances | 3.0% | 2.5% | 3.0% | 6.5% | 0.1 | 0.0 | 0.1 | 0.0 | |
| | X | Provide shade trees to reduce heating/cooling needs | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use energy-efficient and automated controls for air conditioners | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Use double-glass paned windows | 4.5% | 4.5% | 4.0% | 2.5% | 0.1 | 0.0 | 0.2 | 0.0 | |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use lighting controls and energy efficient lighting | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use fuel cells in residential subdivisions to produce heat and elec. | 1.0% | 0.0% | 1.5% | 7.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Orient buildings to the north | 13.5% | 14.0% | 13.0% | 10.5% | 0.0 | 0.0 | 0.0 | 0.0 | Site design does not permit orientation of high rise apartments to the north. |
| X | | Use light-colored roof materials to reflect heat | 1.5% | 1.5% | 1.5% | 1.5% | 0.0 | 0.0 | 0.1 | 0.0 | |
| X | | Comply with Title 24 | 13.0% | 14.0% | 13.0% | 7.5% | 0.2 | 0.0 | 0.6 | 0.0 | |
| <i>Multi-Family Residential Uses</i> | | | | | | | | | | | |
| | X | Use central water heating systems | 8.5% | 9.0% | 8.0% | 4.0% | 0.0 | 0.0 | 0.0 | 0.0 | Central heating systems are not desired by the average multi-family resident. |
| <i>Commercial and Office Uses</i> | | | | | | | | | | | |
| X | | Use solar or low emission water heaters | 0.5% | 0.5% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use central water heating systems | 0.5% | 0.5% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | It is not feasible or desirable to require individual commercial establishments to have central water heating |
| | X | Provide shade trees to reduce heating/cooling needs | 0.5% | 0.5% | 0.5% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | Nature of the project is such that shade trees on the site are infeasible. |
| X | | Use energy-efficient and automated controls for air conditioners | 1.0% | 1.0% | 1.0% | 1.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use double-glass paned windows | 3.0% | 3.5% | 3.0% | 2.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use energy-efficient low-sodium parking lights | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Use lighting controls and energy efficient lighting | 7.0% | 3.0% | 8.5% | 19.5% | 0.0 | 0.0 | 0.1 | 0.0 | |
| X | | Use light-colored roof materials to reflect heat | 1.0% | 1.0% | 1.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Comply with Title 24 | 9.5% | 10.0% | 9.0% | 7.0% | 0.1 | 0.0 | 0.1 | 0.0 | |
| | X | Orient buildings to the north | 12.5% | 11.0% | 13.5% | 17.5% | 0.0 | 0.0 | 0.0 | 0.0 | Site design does not permit orientation of all commercial buildings to the north. |
| <i>Industrial Uses</i> | | | | | | | | | | | |
| | X | Provide shade trees to reduce heating/cooling needs | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | No industrial uses are proposed within the project. |
| | X | Use energy-efficient and automated controls for air conditioners | 0.0% | 0.0% | 0.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use double-glass paned windows | 0.0% | 0.0% | 0.5% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use energy-efficient low-sodium parking lights | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use lighting controls and energy efficient lighting | 0.5% | 0.0% | 1.0% | 2.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use light-colored roof materials to reflect heat | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Orient buildings to the north | 2.5% | 2.0% | 3.0% | 5.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Comply with Title 24 | 0.5% | 0.0% | 1.0% | 3.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Improved storage and handling of source materials | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Materials substitution (e.g., use water-based paints, life cycle analysis) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Utilize efficient manufacturing processes | 1.5% | 0.5% | 2.0% | 6.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Resource recovery systems | 3.0% | 3.5% | 3.0% | 1.5% | 0.0 | 0.0 | 0.0 | 0.0 | |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Summertime Emissions

| Recommended (Measures already incorporated into Project are marked "No.") | | | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES | |
|---|----|---|-------------------------------|------|-----------------|------------------|-------------------------------------|-----|-----------------|------------------|--|---|
| Yes | No | MEASURES, EFFICIENCIES, AND REDUCTIONS | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | | |
| Mobile Source Emission Controls | | | | | | | | | | | | |
| <i>Residential Uses</i> | | | | | | | | | | | | |
| | X | Allow satellite telecommunications centers in residential subdivisions | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Satellite telecommunications centers are superseded by other technology. Residences are proposed in walking distance to proposed commercial areas. | |
| | X | Shuttle service from res. subdivisions to commercial core areas | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Construct bus passenger benches and shelters | 0.2% | 0.2% | 0.2% | 0.2% | 0.5 | 0.1 | 0.0 | 0.1 | | |
| X | | Construct pedestrian facility improvements | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | | |
| X | | Retail services within or adjacent to residential subdivisions | 1.3% | 1.0% | 1.3% | 1.3% | 3.2 | 0.3 | 0.3 | 0.3 | | |
| | X | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | Transit already exists in the project area. |
| | X | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | Measure does not reduce VOC emissions. |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 9.8 | 1.1 | 0.9 | 1.0 | | |
| X | | Construct bicycle trails | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | | |
| <i>Commercial Uses</i> | | | | | | | | | | | | |
| X | | Preferential parking spaces for carpools and vanpools | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. There is potential for employees to park in areas designated for retail customers, thereby negating the intent of this measure. Food establishments located within walking distance for employees. Such programs are set up by and at the discretion of future occupants of the commercial uses. The requirement to achieve a specific AVR has been ruled unlawful by the federal government. Such programs are set up by and at the discretion of future occupants of the commercial uses. Such programs are set up by and at the discretion of future occupants of the commercial uses. Such programs are set up by and at the discretion of future occupants of the commercial uses. Such programs are set up by and at the discretion of future occupants of the commercial uses. Food establishments located within walking distance for employees. Residential uses are in close proximity and within walking distance to proposed commercial uses. There is potential for employees to park in areas designated for retail customers, thereby negating the intent of this measure. Excess parking is not expected to be available on site. Transit already exists in the project area. Proposed on-site uses are not conducive to charging visitors to park. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. Measure does not reduce VOC emissions. | |
| | X | Implement on-site circulation plan in parking lots | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Provide separate windows for fast-food restaurants | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Provide video-conference facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Set up resident worker training programs to improve job/housing balance | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Implement home dispatching system for employees | 0.1% | 0.0% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Minimize use of fleet vehicles during smog alerts | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Use low emission fleet vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Reduce employee parking spaces for those business not under Rule 2202 | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Lunch shuttle service from a worksite to food establishments | 0.5% | 0.4% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Implement compressed work-week schedules | 1.0% | 0.8% | 1.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Trip reduction plan to achieve 1.5 AVR for businesses | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Utilize satellite offices rather than regular worksite to reduce VMT | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Establish a home-based telecommuting program | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Provide or contribute to child care and after school facilities | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Offer travel incentives such as discounts on purchases for transit riders | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Provide on-site employee services such as cafeteria, banks, etc. | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Shuttle service from residential core area to the worksite | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | | Construct bus passenger benches and shelters | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | | |
| | X | Pricing structure for single-occupancy employee parking | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Residential units within or adjacent to commercial developments | 4.0% | 3.1% | 4.0% | 4.0% | 7.0 | 0.5 | 0.7 | 0.6 | | |
| | X | Utilize excess parking as park-n-ride or contribute to park-n-ride | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Construct bicycle facility improvements | 0.3% | 0.2% | 0.3% | 0.3% | 0.5 | 0.0 | 0.0 | 0.0 | | |
| X | | Construct pedestrian facility improvements | 0.2% | 0.2% | 0.2% | 0.2% | 0.3 | 0.0 | 0.0 | 0.0 | | |
| | X | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Charge visitors to park | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 7.0 | 0.6 | 0.7 | 0.6 | | |
| | X | Reschedule truck deliveries and pickups for off-peak hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Paid parking at walkup kiosks | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | On-site truck loading zones | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | X | Implement or contribute to public outreach programs | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | | |
| X | | Provide commuter information areas | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | | |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Summertime Emissions

| Recommended | | Measures already incorporated into Project are marked "No." | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES |
|--|----|---|-------------------------------|------|-----------------|------------------|-------------------------------------|------|-----------------|------------------|---|
| Yes | No | | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | |
| <i>Industrial Uses</i> | | | | | | | | | | | |
| X | | Preferential parking spaces for carpools and vanpools | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | No industrial uses are proposed within the project. |
| X | | Implement on-site circulation plan in parking lots | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Set up resident worker training programs to improve job/housing balance | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement home dispatching system for employees | 0.1% | 0.0% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Minimize use of fleet vehicles during smog alerts | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use low emission fleet vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide commuter information areas | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce employee parking spaces for those business not under Rule 2202 | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement compressed work-week schedules | 1.0% | 0.8% | 1.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Offer loans or other incentives to employees who move locally | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Trip reduction plan to achieve 1.5 AVR for businesses | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide or contribute to child care and after school facilities | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide on-site employee services such as cafeteria, banks, etc. | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Shuttle service from residential core area to the worksite | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct bus passenger benches and shelters | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Pricing structure for single-occupancy employee parking | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Utilize excess parking as park-n-ride or contribute to park-n-ride | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct bicycle facility improvements | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct pedestrian facility improvements | 0.2% | 0.2% | 0.2% | 0.2% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reschedule truck deliveries and pickups for off-peak hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Lunch shuttle system from worksite to food establishments | 0.5% | 0.4% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | On-site truck loading zones | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Install aerodynamic add-on devices to heavy-duty trucks | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement or contribute to public outreach programs | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce ship cruising speeds in the inner harbor | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use low-emission fuels or electrify airport ground service vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Engine tuning for marine vessels | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce number of aircraft engines used during idling | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Install monitoring system to control airport shuttles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use centralized ground power systems for airport service vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | | | | CO | VOC | NO _x | PM10 | |
| Total Unmitigated Emissions | | | | | | | 425.4 | 77.8 | 43.1 | 41.1 | |
| Reduction in Natural Gas Emissions (Pounds per day) | | | | | | | 0.7 | 0.1 | 1.5 | 0.0 | |
| No Wood Burning Fire Places or Stoves in Residential Units | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | |
| Reduction in Mobile Sources Emissions (Pounds per day) | | | | | | | 29.3 | 2.6 | 2.7 | 2.8 | |
| Total Reduction in Emissions (Pounds per day) | | | | | | | 30.0 | 2.8 | 4.2 | 2.8 | |
| Percentage Reduced | | | | | | | 7.0% | 3.6% | 9.7% | 6.9% | |
| Total Reduced Area Source Emissions | | | | | | | 5.7 | 35.6 | 3.5 | 0.0 | |
| Total Reduced Mobile Source Emissions | | | | | | | 389.7 | 39.4 | 35.4 | 38.3 | |
| TOTAL REDUCED EMISSIONS | | | | | | | 395.4 | 75.0 | 38.9 | 38.3 | |
| SCAQMD Thresholds | | | | | | | 550.0 | 55.0 | 55.0 | 150.0 | |
| Project Air Quality Impacts Significant? | | | | | | | NO | YES | NO | NO | |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Wintertime Emissions

| Input Fields | | Unmitigated Emissions - Lbs. per Day | | | |
|--|-------------------------------------|--------------------------------------|-------------|-----------------|------------------|
| Land Use Emissions Based on URBEMIS2002 Version 8.7.0 Air Quality Modeling | | CO | VOC | NO _x | PM ₁₀ |
| High Rise Apartments | Vehicular Sources | 233.8 | 20.5 | 31.3 | 25.8 |
| | Natural Gas | 1.8 | 0.3 | 4.3 | 0.0 |
| | Consumer Products | | 28.1 | | |
| | Wood Burning Fire Places and Stoves | | | | |
| | Architectural Coatings | | 5.5 | | |
| Commercial Uses | Landscaping Area Source | 0.0 | 0.0 | 0.0 | 0.0 |
| | Vehicular Sources | 177.7 | 16.9 | 23.4 | 15.3 |
| | Natural Gas | 0.6 | 0.1 | 0.7 | |
| | Consumer Products | | | | |
| | Architectural Coatings | | 1.1 | | |
| | Landscaping Area Source | 0.0 | 0.0 | 0.0 | |
| | Vehicular Sources | 411.5 | 37.4 | 54.7 | 41.1 |
| | Natural Gas | 2.4 | 0.4 | 5.0 | 0.0 |
| | Consumer Products | 0.0 | 28.1 | 0.0 | 0.0 |
| | Architectural Coatings | 0.0 | 6.6 | 0.0 | 0.0 |
| | Landscaping Area Source | 0.0 | 0.0 | 0.0 | 0.0 |
| | Wood Burning Fire Places and Stoves | 0.0 | 0.0 | 0.0 | 0.0 |
| | Total Emissions | 413.9 | 72.6 | 59.7 | 41.1 |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Wintertime Emissions

| Recommended (Measures already incorporated into Project are marked "No.") | | | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES |
|---|----|--|-------------------------------|-------|-----------------|------------------|-------------------------------------|-----|-----------------|------------------|--|
| Yes | No | MEASURES, EFFICIENCIES, AND REDUCTIONS | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | |
| Natural Gas Emissions Controls | | | | | | | | | | | |
| <i>All Residential Uses</i> | | | | | | | | | | | |
| X | | Use solar or low emission water heaters | 10.0% | 11.0% | 9.5% | 4.5% | 0.2 | 0.0 | 0.4 | 0.0 | |
| X | | Use built-in energy-efficient appliances | 3.0% | 2.5% | 3.0% | 6.5% | 0.1 | 0.0 | 0.1 | 0.0 | |
| | X | Provide shade trees to reduce heating/cooling needs | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use energy-efficient and automated controls for air conditioners | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Use double-glass paned windows | 4.5% | 4.5% | 4.0% | 2.5% | 0.1 | 0.0 | 0.2 | 0.0 | |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use lighting controls and energy efficient lighting | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use fuel cells in residential subdivisions to produce heat and elec. | 1.0% | 0.0% | 1.5% | 7.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Orient buildings to the north | 13.5% | 14.0% | 13.0% | 10.5% | 0.0 | 0.0 | 0.0 | 0.0 | Site design does not permit orientation of high rise apartments to the north. |
| X | | Use light-colored roof materials to reflect heat | 1.5% | 1.5% | 1.5% | 1.5% | 0.0 | 0.0 | 0.1 | 0.0 | |
| X | | Comply with Title 24 | 13.0% | 14.0% | 13.0% | 7.5% | 0.2 | 0.0 | 0.6 | 0.0 | |
| <i>Multi-Family Residential Uses</i> | | | | | | | | | | | |
| | X | Use central water heating systems | 8.5% | 9.0% | 8.0% | 4.0% | 0.0 | 0.0 | 0.0 | 0.0 | Central heating systems are not desired by the average multi-family resident. |
| <i>Commercial and Office Uses</i> | | | | | | | | | | | |
| X | | Use solar or low emission water heaters | 0.5% | 0.5% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use central water heating systems | 0.5% | 0.5% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | It is not feasible or desirable to require individual commercial establishments to have central water heating. |
| | X | Provide shade trees to reduce heating/cooling needs | 0.5% | 0.5% | 0.5% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | Nature of the project is such that shade trees on the site are infeasible. |
| X | | Use energy-efficient and automated controls for air conditioners | 1.0% | 1.0% | 1.0% | 1.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use double-glass paned windows | 3.0% | 3.5% | 3.0% | 2.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use energy-efficient low-sodium parking lights | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Use lighting controls and energy efficient lighting | 7.0% | 3.0% | 8.5% | 19.5% | 0.0 | 0.0 | 0.1 | 0.0 | |
| X | | Use light-colored roof materials to reflect heat | 1.0% | 1.0% | 1.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Comply with Title 24 | 9.5% | 10.0% | 9.0% | 7.0% | 0.1 | 0.0 | 0.1 | 0.0 | |
| | X | Orient buildings to the north | 12.5% | 11.0% | 13.5% | 17.5% | 0.0 | 0.0 | 0.0 | 0.0 | Site design does not permit orientation of all commercial buildings to the north. |
| <i>Industrial Uses</i> | | | | | | | | | | | |
| | X | Provide shade trees to reduce heating/cooling needs | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | No industrial uses are proposed within the project. |
| | X | Use energy-efficient and automated controls for air conditioners | 0.0% | 0.0% | 0.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use double-glass paned windows | 0.0% | 0.0% | 0.5% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use energy-efficient low-sodium parking lights | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Provide ventilation systems for enclosed parking facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use lighting controls and energy efficient lighting | 0.5% | 0.0% | 1.0% | 2.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Use light-colored roof materials to reflect heat | 0.0% | 0.0% | 0.0% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Orient buildings to the north | 2.5% | 2.0% | 3.0% | 5.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Comply with Title 24 | 0.5% | 0.0% | 1.0% | 3.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Improved storage and handling of source materials | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Materials substitution (e.g., use water-based paints, life cycle analysis) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Utilize efficient manufacturing processes | 1.5% | 0.5% | 2.0% | 6.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | X | Resource recovery systems | 3.0% | 3.5% | 3.0% | 1.5% | 0.0 | 0.0 | 0.0 | 0.0 | |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Wintertime Emissions

| Recommended (Measures already incorporated into Project are marked "No.") | | | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES |
|---|----|---|-------------------------------|------|-----------------|------------------|-------------------------------------|-----|-----------------|------------------|---|
| Yes | No | MEASURES, EFFICIENCIES, AND REDUCTIONS | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | |
| Mobile Source Emission Controls | | | | | | | | | | | |
| <i>Residential Uses</i> | | | | | | | | | | | |
| | X | Allow satellite telecommunications centers in residential subdivisions | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Satellite telecommunications centers are superseded by other technology. |
| X | X | Shuttle service from res. subdivisions to commercial core areas | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Residences are proposed in walking distance to proposed commercial areas. |
| X | | Construct bus passenger benches and shelters | 0.2% | 0.2% | 0.2% | 0.2% | 0.5 | 0.0 | 0.1 | 0.1 | |
| X | | Construct pedestrian facility improvements | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | |
| X | | Retail services within or adjacent to residential subdivisions | 1.3% | 1.0% | 1.3% | 1.3% | 3.0 | 0.2 | 0.4 | 0.3 | |
| X | X | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Transit already exists in the project area. |
| X | X | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 9.4 | 0.8 | 1.3 | 1.0 | |
| X | | Construct bicycle trails | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | |
| <i>Commercial Uses</i> | | | | | | | | | | | |
| X | | Preferential parking spaces for carpools and vanpools | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | |
| | X | Implement on-site circulation plan in parking lots | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Provide separate windows for fast-food restaurants | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Provide video-conference facilities | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Set up resident worker training programs to improve job/housing balance | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Implement home dispatching system for employees | 0.1% | 0.0% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Minimize use of fleet vehicles during smog alerts | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Use low emission fleet vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Reduce employee parking spaces for those business not under Rule 2202 | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | There is potential for employees to park in areas designated for retail customers, thereby negating the intent of this measure. |
| | X | Lunch shuttle service from a worksite to food establishments | 0.5% | 0.4% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | Food establishments located within walking distance for employees. |
| | X | Implement compressed work-week schedules | 1.0% | 0.8% | 1.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | Such programs are set up by and at the discretion of future occupants of the commercial uses. |
| | X | Trip reduction plan to achieve 1.5 AVR for businesses | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | The requirement to achieve a specific AVR has been ruled unlawful by the federal government. |
| | X | Utilize satellite offices rather than regular worksite to reduce VMT | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Such programs are set up by and at the discretion of future occupants of the commercial uses. |
| | X | Establish a home-based telecommuting program | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Such programs are set up by and at the discretion of future occupants of the commercial uses. |
| | X | Provide or contribute to child care and after school facilities | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Such programs are set up by and at the discretion of future occupants of the commercial uses. |
| | X | Offer travel incentives such as discounts on purchases for transit riders | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Such programs are set up by and at the discretion of future occupants of the commercial uses. |
| | X | Provide on-site employee services such as cafeteria, banks, etc. | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | Food establishments located within walking distance for employees. |
| | X | Shuttle service from residential core area to the worksite | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Residential uses are in close proximity and within walking distance to proposed commercial uses. |
| X | | Construct bus passenger benches and shelters | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | |
| | X | Pricing structure for single-occupancy employee parking | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | There is potential for employees to park in areas designated for retail customers, thereby negating the intent of this measure. |
| X | | Residential units within or adjacent to commercial developments | 4.0% | 3.1% | 4.0% | 4.0% | 7.1 | 0.5 | 0.9 | 0.6 | |
| | X | Utilize excess parking as park-n-ride or contribute to park-n-ride | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Excess parking is not expected to be available on site. |
| X | | Construct bicycle facility improvements | 0.3% | 0.2% | 0.3% | 0.3% | 0.5 | 0.0 | 0.1 | 0.0 | |
| X | | Construct pedestrian facility improvements | 0.2% | 0.2% | 0.2% | 0.2% | 0.4 | 0.0 | 0.0 | 0.0 | |
| | X | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | Transit already exists in the project area. |
| | X | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Charge visitors to park | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | Proposed on-site uses are not conducive to charging visitors to park. |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 7.1 | 0.7 | 0.9 | 0.6 | |
| | X | Reschedule truck deliveries and pickups for off-peak hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Paid parking at walkup kiosks | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | On-site truck loading zones | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| | X | Implement or contribute to public outreach programs | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | Measure does not reduce VOC emissions. |
| X | | Provide commuter information areas | 0.1% | 0.1% | 0.1% | 0.1% | 0.2 | 0.0 | 0.0 | 0.0 | |

ESTIMATED EMISSIONS REDUCTIONS EFFICIENCIES
Herald Examiner - Wintertime Emissions

| Recommended (Measures already incorporated into Project are marked "No.") | | Emission Reduction Efficiency | | | | Reduced Emissions in Pounds per Day | | | | REASONS FOR REJECTING MITIGATION MEASURES | |
|---|----|---|------|-----------------|------------------|-------------------------------------|------|-----------------|------------------|---|---|
| Yes | No | CO | VOC | NO _x | PM ₁₀ | CO | VOC | NO _x | PM ₁₀ | | |
| <i>Industrial Uses</i> | | | | | | | | | | | |
| X | | Preferential parking spaces for carpools and vanpools | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | No industrial uses are proposed within the project. |
| X | | Implement on-site circulation plan in parking lots | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Set up resident worker training programs to improve job/housing balance | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement home dispatching system for employees | 0.1% | 0.0% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Minimize use of fleet vehicles during smog alerts | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use low emission fleet vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide commuter information areas | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce employee parking spaces for those business not under Rule 2202 | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement compressed work-week schedules | 1.0% | 0.8% | 1.0% | 1.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Offer loans or other incentives to employees who move locally | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Trip reduction plan to achieve 1.5 AVR for businesses | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide or contribute to child care and after school facilities | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Provide on-site employee services such as cafeteria, banks, etc. | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Shuttle service from residential core area to the worksite | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct bus passenger benches and shelters | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Pricing structure for single-occupancy employee parking | 2.0% | 1.5% | 2.0% | 2.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Utilize excess parking as park-n-ride or contribute to park-n-ride | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct bicycle facility improvements | 0.3% | 0.2% | 0.3% | 0.3% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Construct pedestrian facility improvements | 0.2% | 0.2% | 0.2% | 0.2% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Shuttles to major rail transit centers or multi-modal stations | 0.1% | 0.1% | 0.1% | 0.1% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Contribute to regional transit systems | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Synchronize traffic lights on streets impacted by development | 4.0% | 4.0% | 4.0% | 4.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reschedule truck deliveries and pickups for off-peak hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Lunch shuttle system from worksite to food establishments | 0.5% | 0.4% | 0.5% | 0.5% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | On-site truck loading zones | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Install aerodynamic add-on devices to heavy-duty trucks | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Implement or contribute to public outreach programs | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce ship cruising speeds in the inner harbor | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use low-emission fuels or electrify airport ground service vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Engine tuning for marine vessels | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Reduce number of aircraft engines used during idling | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Install monitoring system to control airport shuttles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| X | | Use centralized ground power systems for airport service vehicles | 0.0% | 0.0% | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | | | CO | VOC | NO _x | PM ₁₀ | | |
| Total Unmitigated Emissions | | | | | | 413.9 | 72.6 | 59.7 | 41.1 | | |
| Reduction in Natural Gas Emissions (Pounds per day) | | | | | | 0.7 | 0.1 | 1.5 | 0.0 | | |
| No Wood Burning Fire Places or Stoves in Residential Units | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Reduction in Mobile Sources Emissions (Pounds per day) | | | | | | 29.0 | 2.4 | 3.8 | 2.8 | | |
| Total Reduction in Emissions (Pounds per day) | | | | | | 29.7 | 2.6 | 5.3 | 2.8 | | |
| Percentage Reduced | | | | | | 7.2% | 3.5% | 8.9% | 6.9% | | |
| Total Reduced Area Source Emissions | | | | | | 1.7 | 35.0 | 3.5 | 0.0 | | |
| Total Reduced Mobile Source Emissions | | | | | | 382.5 | 35.0 | 50.9 | 38.3 | | |
| TOTAL REDUCED EMISSIONS | | | | | | 384.2 | 70.0 | 54.4 | 38.3 | | |
| SCAQMD Thresholds | | | | | | 550.0 | 55.0 | 55.0 | 150.0 | | |
| Project Air Quality Impacts Significant? | | | | | | NO | YES | NO | NO | | |

| August '06 | Sept. '06 | Oct '06 | Nov '06 | Dec '06 | Jan. '07 |
|------------|-----------|---------|---------|---------|----------|
|------------|-----------|---------|---------|---------|----------|

| | | | | | |
|-----------|-----------|-----------|----------|--|--|
| VOC: 3.76 | NO: 27.78 | CO: 30.37 | SO: 0.14 | | |
| PM: 2.22 | | | | | |

| | | | | | |
|--|--|--|--|-----------|--|
| | | | | VOC:14.65 | |
|--|--|--|--|-----------|--|

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 3.76 | 3.76 | 3.76 | 3.76 | 3.83 | 14.65 |
| 27.78 | 27.78 | 27.78 | 27.78 | 23.72 | 24.13 |
| 30.37 | 30.37 | 30.37 | 30.37 | 32.2 | 34.27 |
| 0.14 | 0.14 | 0.14 | 0.14 | 0 | 0 |
| 2.22 | 2.22 | 2.22 | 2.22 | 0.96 | 0.86 |

| February '07 | March '07 | April '07 | May '07 | June '07 | July '07 |
|--------------|-----------|-----------|---------|----------|----------|
|--------------|-----------|-----------|---------|----------|----------|

| | | | | | |
|-----------|-----------|-------|----------|---|---|
| NO: 24.13 | CO: 34.27 | SO: 0 | PM: 0.86 | + | + |
|-----------|-----------|-------|----------|---|---|

| | | |
|------------|--|--|
| [Redacted] | | |
|------------|--|--|

| | |
|-----------|-----------|
| VOC: 5.62 | NO: 60.12 |
| CO: 40.07 | SO: 0.06 |
| PM: 6.79 | |

| |
|------------|
| VOC: 12.19 |
| PM: 177.69 |

| | | | | | |
|-------|-------|-------|-------|-------|--------|
| 14.65 | 14.65 | 14.65 | 20.27 | 20.27 | 26.74 |
| 24.13 | 24.13 | 24.13 | 84.25 | 84.25 | 153.16 |
| 34.27 | 34.27 | 34.27 | 74.34 | 74.34 | 120.53 |
| 0 | 0 | 0 | 0.06 | 0.06 | 0.14 |
| 0.86 | 0.86 | 0.86 | 7.65 | 7.65 | 178.55 |

| August '07 | Sept. '07 | Oct. '07 | Nov. '07 | Dec. '07 | Jan. '08 |
|------------|-----------|----------|----------|----------|----------|
|------------|-----------|----------|----------|----------|----------|

| | | | | | |
|---|---|---|---|--|--|
| + | + | + | + | | |
|---|---|---|---|--|--|

| | | | | | |
|------------|-----------|----------|--|--|--|
| NO: 129.03 | CO: 86.26 | SO: 0.14 | | | |
|------------|-----------|----------|--|--|--|

| | | |
|-----------|-----------|-----------|
| VOC: 4.21 | NO: 23.30 | VOC: 4.17 |
| CO: 37.8 | SO: 0 | |
| PM: 0.93 | | |

| |
|------------|
| VOC: 10.51 |
| PM: 97.70 |

| | | | | | |
|--------|--------|--------|-------|-------|--------|
| 26.74 | 26.74 | 26.74 | 18.86 | 4.21 | 14.68 |
| 153.16 | 153.16 | 153.16 | 47.43 | 23.3 | 112.53 |
| 120.53 | 120.53 | 120.53 | 71.35 | 37.08 | 118.27 |
| 0.14 | 0.14 | 0.14 | 0 | 0 | 0.07 |
| 178.55 | 178.55 | 178.55 | 1.79 | 0.93 | 98.53 |

| | | | | | |
|----------|-----------|-----------|---------|----------|----------|
| Feb. '08 | March '08 | April '08 | May '08 | June '08 | July '08 |
|----------|-----------|-----------|---------|----------|----------|

| | | | | | |
|-----------|-----------|-------|----------|---|---|
| NO: 22.64 | CO: 36.80 | SO: 0 | PM: 0.83 | + | + |
|-----------|-----------|-------|----------|---|---|

| | | |
|-----------|-----------|----------|
| NO: 89.89 | CO: 81.47 | SO: 0.07 |
|-----------|-----------|----------|

| | | |
|-----------|-----------|-----------|
| VOC: 4.30 | NO: 22.72 | CO: 38.44 |
|-----------|-----------|-----------|

| | | | | | |
|--------|--------|--------|-------|-------|-------|
| 14.68 | 14.68 | 14.68 | 8.47 | 8.47 | 8.47 |
| 112.53 | 112.53 | 112.53 | 45.36 | 45.36 | 45.36 |
| 118.27 | 118.27 | 118.27 | 75.24 | 75.24 | 75.24 |
| 0.07 | 0.07 | 0.07 | 0 | 0 | 0 |
| 98.53 | 98.53 | 98.53 | 1.68 | 1.68 | 1.68 |

| | | | | | |
|------------|-----------|----------|----------|----------|---------|
| August '08 | Sept. '08 | Oct. '08 | Nov. '08 | Dec. '08 | Jan '09 |
|------------|-----------|----------|----------|----------|---------|

| | | | | | |
|---|---|---|---|---|------------|
| + | + | + | + | + | VOC:168.05 |
|---|---|---|---|---|------------|

| | | | | | |
|-------|--------|---|---|---|-----------|
| SO: 0 | PM:.85 | + | + | + | VOC: 4.24 |
|-------|--------|---|---|---|-----------|

| | | | | | |
|-------|-------|-------|-------|-------|--------|
| 8.47 | 8.47 | 8.47 | 8.47 | 8.47 | 172.29 |
| 45.36 | 45.36 | 45.36 | 45.36 | 45.36 | 45.7 |
| 75.24 | 75.24 | 75.24 | 75.24 | 75.24 | 80.25 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1.68 | 1.68 | 1.68 | 1.68 | 1.68 | 1.69 |

Feb '09 March '09 April '09 May '09 June '09 July '09

NO: 23.43 CO: 42.24 SO: 0 PM: 0.89 + +

NO: 22.27 CO: 38.01 SO: 0 PM: 0.80 + +

| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 172.29 | 172.29 | 172.29 | 172.29 | 172.29 | 172.29 |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 80.25 | 80.25 | 80.25 | 80.25 | 80.25 | 80.25 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 |

August '09 Sept '09 Oct '09 Nov '09 Dec '09 Jan '10

+ + + + +

+ + + + +

VOC: 56.76
CO: 40.90
PM: 0.78

| | | | | | |
|--------|--------|--------|--------|--------|-------|
| 172.29 | 172.29 | 172.29 | 172.29 | 172.29 | 56.76 |
| 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 23.54 |
| 80.25 | 80.25 | 80.25 | 80.25 | 80.25 | 40.9 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 0.78 |

Feb '10

March '10

April '10

May '10

June '10

July '10

NO: 23.54
SO: 0

August '10

Sept '10

Oct. '10

Nov. '10

Dec '10