

ADDENDUM TO EIR **Serrano Village J5/J6 Residential Project**

I. Introduction

This document constitutes an Addendum to the certified 1988 Environmental Impact Report (EIR) (State Clearinghouse No. 86122912) for the El Dorado Hills Specific Plan. This Addendum specifically addresses the modification of Land Use Designations and zoning for the portion of the Specific Plan area referred to as Villages J-5 and J-6, County Application SP13-0002/Z13-0002/Serrano Village J5/J6. This Addendum evaluates whether the re-designation/rezoning of 4.27 acres of land from neighborhood commercial to residential, and the inclusion of the 4.27 acres in an overall 36.03-acre residential village, would result in any new or substantially more adverse significant effects or require any new mitigation measures not identified in the previously certified EIR. The proposed revision to the project would not cause significant effects not identified in the EIR, nor increase the level of environmental effects to substantial or significant, and hence, no new mitigation measures would be necessary to reduce significant effects. No change has occurred with respect to circumstances surrounding the Project that would cause new or substantially more severe environmental effects which were not previously analyzed in the EIR. Therefore, no further environmental review is required beyond this Addendum.

The certified EIR can be accessed via the following link:
http://www.edcgov.us/Government/Planning/Zoning_Ordinances_for_Specific_Plans.aspx#EI%20Dorado%20Hills

II. Purpose of this Addendum.

This Addendum is focused upon the re-designation/rezone of the 4.27 acre J5 Parcel and its inclusion within the J5/J6 residential subdivision. It is intended to evaluate whether this modification to the EDHSP would result in any new or substantially greater effects or require any new mitigation measures not identified in the prior EIR. This Addendum, together with the EIR, will be utilized by the County as the environmental clearance for the project. Previous residential subdivisions within the EDHSP have been deemed exempt from further review pursuant to CEQA Guidelines Section 15182. Staff initially intended to apply this exemption, as the resulting residential development is generally consistent with the Specific Plan. However, with respect to the 4.27-acre portion of the project which is subject to a land use and zoning change, the exemption is technically inapplicable. Staff has determined that this Addendum is the appropriate document to analyze this project.

III. Background/Existing Villages J5 and J6 Approvals.

The El Dorado Hills Specific Plan (EDHSP) was adopted and an EIR was certified by the El Dorado County Board of Supervisors on July 18, 1988. The EDHSP consisted of approximately 4,000 acres with anticipated land uses consisting of commercial,

open space, and recreational facilities, along with 6,162 residential units at build-out. Approximately 4,000 residential parcels currently exist, and it is currently anticipated that at build-out, the residential unit count will not exceed 4,900, or 20% less than analyzed and approved.

Serrano Village J5/J6 is located in the eastern portion of the Specific Plan area along Bass Lake Road and is comprised of 36 acres surrounded by existing and future residential and commercial development within the EDHSP, the existing Bridlewood subdivision and the approved Bass Lake Hills Specific Plan. Village J was originally planned to accommodate 342 residential units and 45 acres of neighborhood commercial development over 117 acres. Through a series of planning director and planning commission modifications to the Specific Plan, consistent with the terms of initial project approvals, the amount of land available for neighborhood commercial development has been reduced to two parcels, an 11.68 acre parcel in Village J5 referred to as the Phase 1 Commercial (approved for 118,000 square feet of neighborhood commercial uses and a gas station), and a 4.27 acre parcel also located in Village J-5, across Sienna Ridge Road from the Phase 1 Commercial, referred to as the Phase 2 Commercial. Current approved entitlements for the Phase 2 Commercial Parcel include a 24-hour gas station with a car wash, a retail building with a drive-through, a pharmacy with a drive-through, along with typical mixed retail shop space. The Phase 2 Commercial has an approved Planned Development (PD) Permit and Tentative Parcel Map permitting the construction of 32,584 square feet of retail/commercial uses. Village J6 is comprised of 32.15 acres of land zoned for residential uses. A tentative subdivision map and planned development permit was approved for the J6 parcel on April 13, 2010, allowing the development of 204 clustered, two-story residential units within the 32.15 acres comprising Village J6. That approval was deemed exempt from further review per CEQA Guidelines Section 15182.

IV. Proposed Village J5/J6 Project

The current application proposes a 148-unit single-family residential subdivision map over the entire 36.03 acres comprised of the existing J6 residential parcel, together with the 4.27 acre J5, Phase 2 Commercial Parcel. Any residential development within the existing J6 parcel would be exempt from further environmental review pursuant to CEQA Guidelines Section 15182 as a residential subdivision consistent with an approved Specific Plan. However, because the 4.27 acre J5 parcel would require a rezone, staff has determined that the exemption provided by Section 15182 does not apply to that parcel. Therefore, this Addendum has been prepared.

Approval of the current application would result in the elimination of the approved 32,584 square foot retail/commercial project and gas station approved for Village J5, Phase 2. It would also eliminate the 204-unit residential tentative subdivision map approved for Village J6. Instead, the entire Village J5/J6 would be the subject of a new, reduced density, 148 unit tentative map for typical single-family residential units.

V. CEQA Framework For This Addendum

For a proposed modified project, State CEQA Guidelines (Sections 15162 and 15164) provide that an Addendum to an adopted EIR may be prepared if some changes or additions are necessary but none of the following conditions calling for the preparation of a subsequent EIR have occurred:

Substantial changes in the project which require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;

Substantial changes with respect to the circumstances under which the project is undertaken which require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time of EIR adoption, shows any of the following:

- i) the project will have one or more significant effects not discussed in the EIR,
- ii) the project will result in impacts substantially more severe than those disclosed in the EIR,
- iii) mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponent declines to adopt the mitigation measure or alternative, or
- iv) mitigation measures or alternatives that are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt the mitigation measure or alternative.

The purpose of this Addendum is to evaluate the redesignation of 4.27 acres within the Specific Plan area from commercial to residential zoning and the impacts of the overall J5/J6 residential subdivision. Based on the analysis provided below, an Addendum to the prior certified EIR is the appropriate CEQA document.

VI. Discussion

A. Traffic Impacts.

The project would not result in new or substantially more significant traffic impacts than previously analyzed. The EDHSP EIR anticipated and analyzed 6,162 residential units, together with 45 acres of commercial uses. Build-out of the EDHSP is currently contemplated to be 4900 residential units, or 80% of that analyzed by the EIR. The current approvals for the subject project consist of 32,584 square feet of commercial development and 204 single-family attached residential units. The

proposed project would eliminate 32,584 square feet of commercial development and would reduce residential units by 56. Whether analyzing the Specific Plan as a whole, or just focusing on the modification to the existing J5/J6 entitlements, daily vehicle trips would be reduced from those previously analyzed. A summary of the reduction in traffic impacts as a result of the proposed project is shown in the summary traffic analysis prepared by Fehr & Peers, attached hereto as Exhibit A. Total trips are reduced by 17%, while AM and PM peak hour trips are reduced by approximately 15% for the proposed land use as compared to the existing land use.

B. Noise Impacts.

Noise impacts would be reduced due to the elimination of the commercial development and its attendant loading zones, 24-hour gas station, car wash and drive-through windows. The duration of construction noise impacts will be reduced due to the smaller number of units to be constructed overall and the elimination of the commercial center. Noise impacts upon residential uses were fully addressed in the EIR and the mitigation measures adopted therein will be applicable to the J5/J6 project, consistent with previously developed residential villages within the EDHSP. The residences located within the proposed Village J5/J6 residential project would be exposed to noise from both Bass Lake Road and from the J5, Phase I commercial project. Per County policy, an Environmental Noise Analysis was prepared by Bollard Acoustical Consultants, dated November 22, 2016, a copy of which is attached hereto as Exhibit B. Standard noise mitigation measures have been incorporated within project conditions and no new or more severe impacts were found to exist from those previously analyzed. Certain noise attenuation measures previously imposed upon the Phase 2 Commercial will no longer be necessary.

C. Public Service Impacts.

No new or more severe effects would occur as a result of the proposed project. Public Service Impacts were fully analyzed in the EIR and the mitigation measures developed therein will be applicable to the project. The elimination of the commercial project and the reduction in residential unit count will result in corresponding reductions in calls for sheriff and fire services and in student generation as opposed to the existing Approved Projects. Water use, sewage generation, refuse collection, utility services, etc., would be lower due to the reduced number of residential units and the elimination of the commercial center. The included village park acreage is slightly increased, notwithstanding the unit count reduction.

D. Air Quality Impacts.

No new or more severe effects would occur as a result of the proposed project. The proposed land uses would result in less combined net levels of construction related CAP and precursor emissions in comparison to the approved land use. Operational emissions associated with the proposed land use would also be less than the approved land use. (See Memorandum from Ascent Environmental dated 4-26-17, attached as Exhibit C.)

E. Greenhouse Gas Impacts.

Given the reduction in residential units and the elimination of the retail uses, the proposed project would result in reduced GHG emissions (2009 MT CO₂e/year) than the approved land use. (See Memorandum from Ascent Environmental dated 4-26-17 attached as Exhibit B.)

F. Aesthetics Impacts.

No new or more severe aesthetic impacts will occur as a result of the proposed project. The reduced-scale residential village which replaces the approved project will be buffered from surrounding roadways by an enhanced, 25-foot minimum landscaping corridor and 6-foot soundwalls, consistent with other residential portions of the Serrano project. Residential units will be reduced from 204 two-story units to 148 units with both 1 and 2 story elevations, reducing the massing effect visible from adjacent roadways. The commercial development, including the large gas station canopy, will be replaced by residential development, resulting in less concentrated aesthetic impacts at the Bass Lake Road/Sienna Ridge intersection. The Bass Lake Road encroachment (driveway) into the Phase 2 commercial center will be eliminated. Slightly greater tree canopy preservation is afforded by the proposed land use as opposed to the approved land use.

G. Other Impacts.

Geologic Resources, Hydrology, Water Quality, Mineral Resources, Aesthetic Impacts, etc., were fully analyzed in the EIR, would be unaffected by the proposed project, and applicable mitigation measures developed remains in effect for the J5/J6 residential project.

VII. Conclusion

On the basis of the discussion above, the proposed Specific Plan modification would result in a reduced density residential project consistent with EDHSP policies. The proposed project will not result in new or more severe significant environmental effects not previously analyzed and therefore do not trigger additional CEQA review. Thus, this Addendum satisfies the requirements of CEQA Guidelines Sections 15162 and 15164.

Exhibits

- A. Serrano Village J5/J6 Traffic Memorandum
- B. Serrano Village J5/J6 Environmental Noise Analysis
- C. Serrano Village J5/J6 Air Quality/Greenhouse Gas Analysis

MEMORANDUM

Date: April 11, 2017
To: Andrea Howard, Parker Development
From: David B. Robinson, Fehr & Peers

Subject: Serrano Village J (LOT H), J5, J6 and J7

RS10-2829

Fehr & Peers has completed a trip generation evaluation of the land use changes proposed for Serrano Villages J5 and J6. This memorandum outlines the proposed land use modifications, our evaluation methodology, and findings.

Land Use Modifications

Table 1 compares approved and proposed land use for Serrano Village J5 and J6. Figure 1 shows the proposed changes. Villages J5 and J6 are located east of the Bass Lake Road/Serrano Parkway Intersection. As proposed, the Village J5 (Phase 2) neighborhood retail would be changed to single family residential and combined with Village J6.

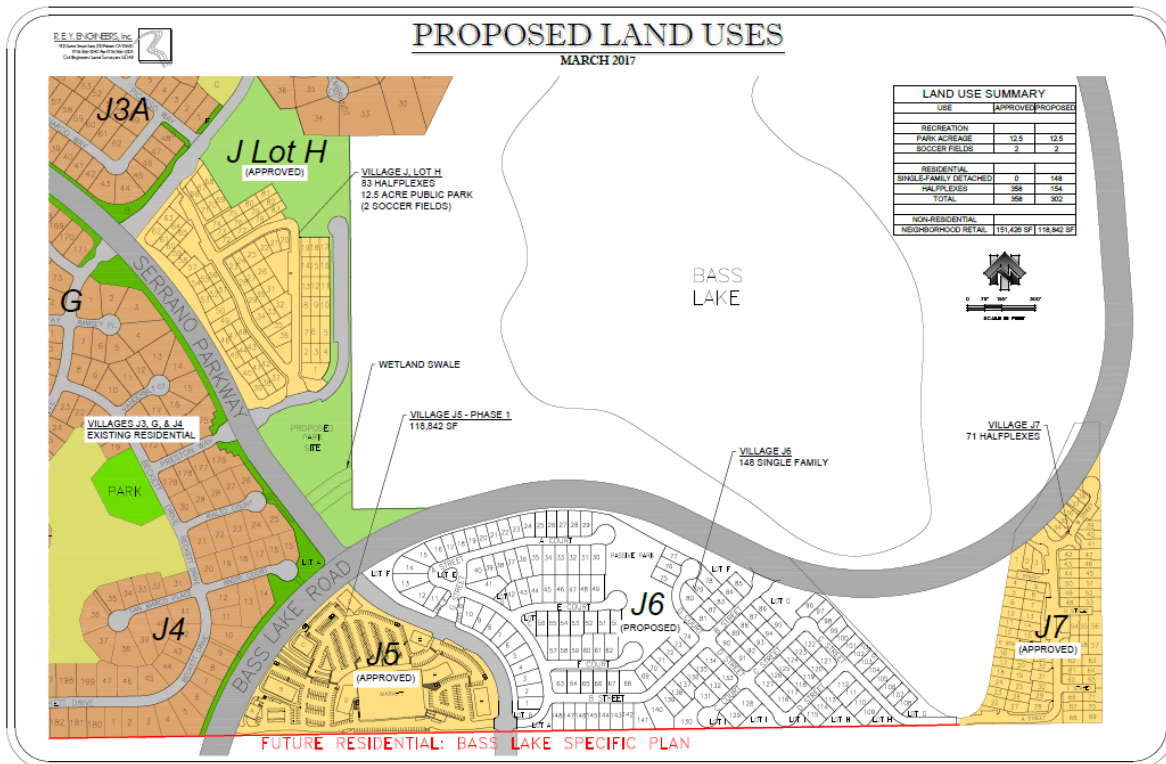
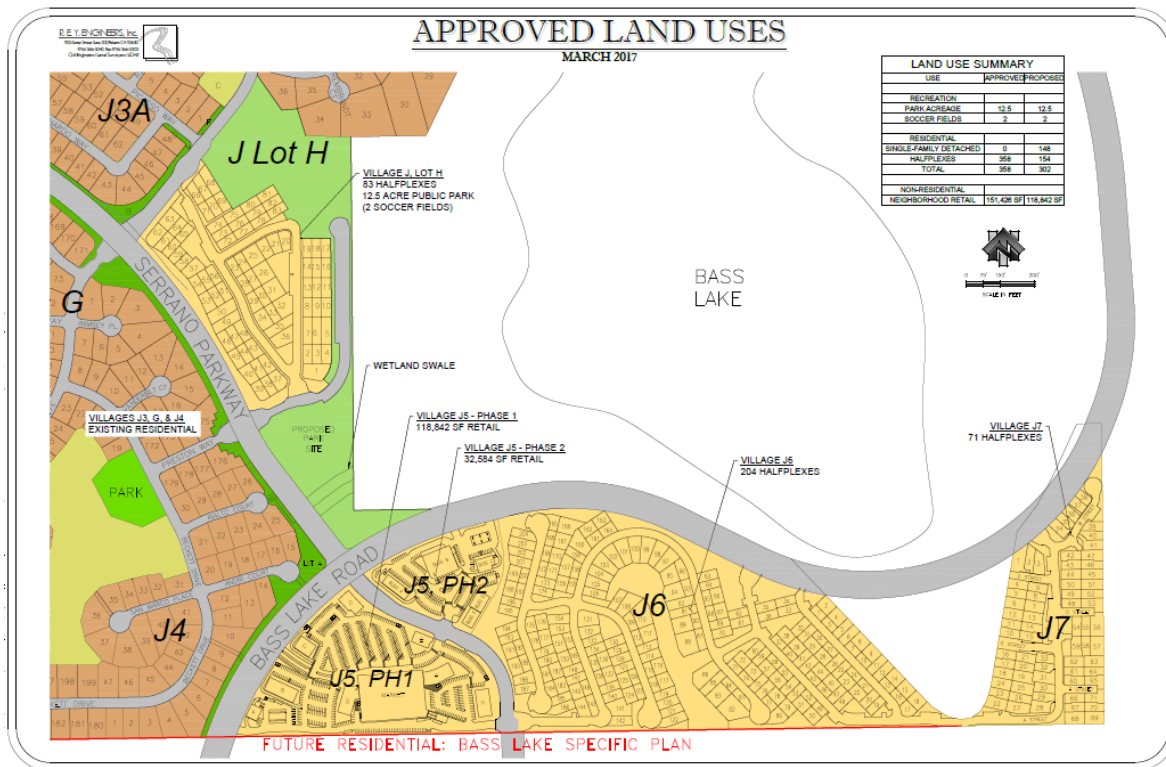
TABLE 1 PROPOSED LAND USE – SERRANO VILLAGES J5 AND J6		
Village	Approved Land Use	Proposed Land Use
J5	Neighborhood Retail (151,426 Square Feet)	Neighborhood Retail (118,842 Square Feet)
J6	Single Family Residential (204 Halfplex Units)	Single Family Residential (148 Dwelling Units)
Source: Fehr & Peers, 2017		

Evaluation Methodology

We prepared trip generation estimates for the approved and proposed land use summarized in Table 1, based on methodologies and trip generation rates presented in *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012), field-measured trip generation rates for the public park land use (for AM peak hour and daily conditions) and park use descriptions provided by El Dorado Hills CSD Recreation Director (for PM peak hour conditions).



Figure 1: Approved and Proposed Land Uses



Trip Generation Evaluation

Table 2 compares AM peak hour, PM peak hour, and daily trip generation for the approved and proposed land use. Detailed calculations and trip rate descriptions are included in Exhibit A. The comparison include trip generation for Village J (Lot H), Village J5, Village J6, and Village J7. As shown in Table 2, the proposed land use will result in fewer trips than the approved land use.

TABLE 2			
TRIP GENERATION – WITH PROPOSED LAND USE			
Land Use	Peak Hour		Daily
	AM	PM	
Approved	423	1,024	12,459
Proposed	361	886	10,674
Difference (Proposed – Approved)	- 62	- 139	- 1,785
Source: Fehr & Peers, 2017			



Exhibit A

Trip Generation Comparison - Serrano Villages J (Lot H), J5, J6, J7

Village	Land Use	ITE Code	Amount	Units	Peak Hour												Daily	
					AM						PM							
					Trip Rates			Trip Generation			Trip Rates			Trip Generation			Trip Rates	Trip Generation
					In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	Total	Total
Approved Land Use																		
J, Lot H	Single Family Residential ¹	210	83	DU	0.19	0.56	0.75	16	47	62	0.63	0.37	1.00	52	31	83	9.52	790
	Public Park ^{2,4}	-	12.5	Acres	0.60	0.48	1.08	8	6	14	6.26	2.81	9.07	78	35	113	36.55	457
J5	Neighborhood Retail ³	820	151.4	1,000 Square Feet	0.82	0.50	1.33	124	76	201	2.51	2.72	5.22	380	411	791	58.73	8,892
J6	Single Family Residential ¹	210	204	DU	0.19	0.56	0.75	38	115	153	0.63	0.37	1.00	129	75	204	9.52	1,942
J7	Single Family Residential ¹	210	71	DU	0.19	0.56	0.75	13	40	53	0.63	0.37	1.00	45	26	71	9.52	676
Subtotal								199	284	483				683	579	1,262		12,757
Passby Trips (30% Applied to Neighborhood Commercial)								30	30	60				119	119	238		299
Total (Net New Trips)								169	254	423				564	460	1,024		12,459
Proposed Land Use																		
J, Lot H	Single Family Residential ¹	210	83	DU	0.19	0.56	0.75	16	47	62	0.63	0.37	1.00	52	31	83	9.52	790
	Public Park ^{2,4}	-	12.5	Acres	0.60	0.48	1.08	8	6	14	6.26	2.81	9.07	78	35	113	36.55	457
J5	Neighborhood Retail ³	820	118.8	1,000 Square Feet	0.90	0.55	1.46	107	66	173	2.72	2.94	5.66	323	350	672	63.94	7,596
J6	Single Family Residential ¹	210	148	DU	0.19	0.56	0.75	28	83	111	0.63	0.37	1.00	93	55	148	9.52	1,409
J7	Single Family Residential ¹	210	71	DU	0.19	0.56	0.75	13	40	53	0.63	0.37	1.00	45	26	71	9.52	676
Subtotal								172	242	413				591	497	1,088		10,928
Passby Trips (30% Applied to Neighborhood Commercial)								26	26	52				101	101	202		254
Total (Net New Trips)								146	216	361				490	396	886		10,674
Difference (Proposed Land Use - Approved Land Use)								-24	-38	-62				-74	-64	-139		-1,785

NOTES:

¹Trip rates are from *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012)

²AM peak hour and daily trip generation for the public park land use is based on field measured trip generation at the Promontory (Alexandra Drive) and El Dorado Hills Community Pare (El Dorado Hills Boulevard at Harvard Way).

³Trip generation for Neighborhood Retail use the Fitted Curve Equations from the Shopping Center (820) AM, PM and Weekday curves from the Trip Generation Manual, *9th Edition* (Institute of Transportation Engineers, 2012). AM and PM are based on weekday, peak hour of adjacent street traffic, one hour between 7 and 9 a.m. and 4 and 6 p.m.

⁴PM peak hour trip generation for the public park land use is based use descriptions provided by El Dorado Hills CSD Recreation Director (March 4, 2015 email correspondence). Trip generation assumes four soccer teams practicing on large fields and three team practicing on small field, 20 players per team [(8x20 + 6x20) = 280 players] gives 280 players. No reduction for carpools was assumed, so the trip generation assumes 280 vehicles with inbound and outbound trips based on field meassured trip generation discussed in Footnote 2.

Environmental Noise Analysis

Serrano Village J5 & J6

El Dorado County, California

BAC Job # 2013-070

Prepared For:

Parker Development Company

Attn: Mr. Tom Howard
4525 Serrano Parkway
El Dorado Hills, CA 95762

Prepared By:

Bollard Acoustical Consultants, Inc.



Paul Bollard, President

November 22, 2016



Exhibit B

Introduction

The Serrano Village J5 & J6 project is located in the western portion of El Dorado County, in the unincorporated community of El Dorado Hills. Land uses in the project vicinity include single-family residential to the northwest and southeast, Bass Lake to the north, and rural residential to the south. Village J6 proposes a 148-lot subdivision while Village J5 would consist of commercial uses.

Traffic noise emanating from Bass Lake Road, as well as noise from the proposed Village J5 commercial uses are considered to be potentially significant noise sources affecting the proposed residential uses of Village J6. As a result, the project developer has retained Bollard Acoustical Consultants, Inc. (BAC) to prepare this analysis. The project area, residential site plan, and commercial site plan are shown in Figures 1, 2, and 3, respectively.

El Dorado County Noise Standards

The Noise Element of the El Dorado County General Plan contains policies to ensure that County residents are not subjected to noise beyond acceptable levels.

Policy 6.5.1.1 of the County Noise Element requires an acoustical analysis for new residential developments located in potentially noise-impacted areas.

Policy 6.5.1.2 states that where proposed non-transportation noise sources are likely to produce noise levels exceeding the performance standards of Table 1 at existing or planned residential uses, an acoustical analysis shall be required as part of the environmental review process so that noise mitigation may be included in the project design.

Policy 6.5.1.3 states that where noise mitigation measures are required to achieve the County's exterior noise standards, the emphasis of such measures shall be placed upon site planning and project design. The use of noise barriers shall be considered a means of achieving the noise standards only after all other practical design-related noise mitigation measures have been integrated into the project and the noise barriers are not incompatible with the surroundings.

Policy 6.5.1.7 states that noise created by new non-transportation noise sources shall be mitigated so as not to exceed any of the noise level standards of Table 1, as measured immediately within the property line of the receiving property.

Policy 6.5.1.8 establishes 45 and 60 dB L_{dn} as being acceptable interior and exterior noise levels, respectively, for new residential uses affected by traffic noise sources. Where it is not possible to reduce noise in outdoor activity areas to 60 dB L_{dn} or less using a practical application of the best available noise reduction measures, an exterior noise level of up to 65 dB L_{dn} may be allowed provided that available exterior noise reduction measures have been implemented and interior noise levels are in compliance with the 45 dB L_{dn} standard.

Figure 1

Serrano Village J5 & J6 - El Dorado County, California
Project Area and Traffic Noise Measurement Locations



Figure 2

Serrano Village J5 & J6 - El Dorado County, California

Project Site Plan, Recommended Noise Barrier Locations, and 60 dB Ldn Traffic Noise Contour



Legend

- Future (2035) 60 dB Ldn Traffic Noise Contour
 Recommended 6-foot Noise Barrier Location



Scale (feet)

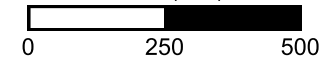


Figure 3
Serrano Village J5 & J6 - El Dorado County, California
Serrano J5 Commercial Center Site Plan



Table 1
Performance Standards for Non-Transportation Noise Sources
El Dorado County Noise Element – Community Areas

Noise Level Descriptor	Daytime (7 a.m. - 7 p.m.)	Evening (7 p.m. - 10 p.m.)	Nighttime (10 p.m. - 7 a.m.)
Hourly Leq, dB	55 dB	50 dB	45 dB
Maximum Level, dB	70 dB	60 dB	55 dB

Note: Each of the noise levels specified above should be lowered by 5 dB for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises.

Please refer to Appendix A for definitions of acoustical terminology.

Existing Ambient Noise Environment

The noise environment in the project vicinity is primarily defined by traffic noise emanating from Bass Lake Road. To quantify existing ambient noise levels in the project area, BAC conducted long-term and short-term noise surveys at the locations shown on Figure 1 on August 7-9, 2013. Larson-Davis Laboratories (LDL) 820 precision integrating sound level meters were used to complete the noise level measurement survey. The meters were calibrated before use with a LDL Model CAL200 calibrator to ensure the accuracy of the measurements.

The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4). The noise level measurement results are summarized below in Table 2. The detailed long-term monitoring results conducted at Site A are provided in Appendices B and C.

Table 2
Summary of Ambient Noise Level Measurements
Serrano Village J5 & J6 Residential Development – August 7-9, 2013

Site	Date	Daytime				Nighttime		
		L_{dn}	L_{eq}	L₅₀	L_{max}	L_{eq}	L₅₀	L_{max}
1 ¹	August 7, 2013 – 2:55 PM	--	59	--	71	--	--	--
2 ¹	August 7, 2013 – 2:30 PM	--	63	--	82	--	--	--
A ²	August 7-8, 2013	63	59	55	69-82	56	40	65-75
	August 8-9, 2013	63	58	55	68-77	56	41	64-73

Notes:

¹ Short-term noise level measurement location, 15 minute duration.

² Long-term noise level measurement location, 48 hour duration.

Source: Bollard Acoustical Consultants, Inc.

Evaluation of Future Bass Lake Road Traffic Noise Levels

Traffic Noise Prediction Methodology

The Federal Highway Administration Highway Traffic Noise Prediction Model (FHWA-RD-77-108) with the Calveno vehicle noise emission curves was used to predict traffic noise levels at the project site.

Traffic Noise Prediction Model Calibration

The FHWA Model provides reasonably accurate traffic noise predictions under “ideal” roadway conditions. Ideal conditions are generally considered to be long straight roadway segments with uniform vehicle speeds, a flat roadway surface, good pavement conditions, a statistically large volume of traffic, and an unimpeded view of the roadway from the receiver location. Such conditions did not appear to be in effect at this project site. As a result, Bollard Acoustical Consultants, Inc. conducted a careful calibration of the FHWA Model through site-specific traffic noise level measurements and concurrent traffic counts.

This calibration process was performed at two locations on the project site on August 7th, 2013. The traffic noise measurement locations, Sites 1 and 2, are shown in Figure 1. The detailed results of this procedure are provided in Appendix D. The FHWA Model was found to reasonably predict traffic noise levels at the measurement site. As a result, no calibration adjustment was applied to the FHWA Model for the prediction of future traffic noise levels at the project site.

Predicted Future Exterior Traffic Noise Levels at Outdoor Activity Areas

The FHWA Model was used with future traffic data to predict future traffic noise levels at the proposed outdoor activity areas of the project residences which are located adjacent to Bass Lake Road. Future traffic volume forecasts for Bass Lake Road were obtained from El Dorado County Traffic Model. The FHWA Model inputs and predicted future traffic noise levels at the project site are shown in Appendix E. The predicted future traffic noise levels are summarized below in Table 3.

Table 3
Predicted Future Traffic Noise Levels at Lots Nearest to Bass Lake Road
Serrano Village J5 & J6 – El Dorado County, California

Roadway	Predicted L _{dn} (dB) at Proposed Outdoor Activity Areas					
	Lot 15	Lot 23	Lot 28	Lot 77	Lot 96	Lot 101
Bass Lake Road	64	65	65	62	64	58

Note: A complete listing of FHWA Model inputs and results are provided in Appendix E.

The Table 2 data indicate that future traffic noise levels within the backyards of the nearest to Bass Lake Road will be exposed to the future traffic noise levels in the County's conditionally acceptable range of 60-65 dB L_{dn}. Because the predicted exterior levels along Bass Lake Road are within this conditionally acceptable range, a more specific analysis of potential noise impacts at the residences located adjacent to Bass Lake Road was prepared.

Traffic Noise Barrier Analysis

An analysis of noise barrier effectiveness was performed for this project and is summarized below in Table 4 for representative backyard areas. Proposed grading plans were reviewed to ensure that proposed site topography was included in the barrier analysis. The detailed results of the noise barrier effectiveness are provided as Appendix F.

Table 4
Barrier Analysis Results
Serrano Village J5 & J6 - El Dorado County, California

Barrier Height (feet)	Predicted L _{dn} (dB) at Proposed Outdoor Activity Areas				
	Lot 15	Lot 23	Lot 28	Lot 77	Lot 96
No barrier	64	65	65	62	64
5	56	57	56	53	59
6	55	56	55	52	58
7	54	55	54	51	57
8	53	54	53	50	56

Note: A complete listing of FHWA Model Noise Barrier Effectiveness inputs and results are provided in Appendix F.

As shown above in Table 4, the barrier analysis results indicate that a 5-foot wall constructed at the locations shown in Figure 2 would be adequate to achieve compliance with the County's exterior noise standard (60 dB L_{dn}).

The model result indicates that a 5-foot tall barrier would be adequate is based on the typical assumption that the receiver is located in the middle of the backyard area. If the receiver is located closer to the house (further from the road), the barrier would be more effective. However, at backyard receiver locations closer to the wall, the wall would be less effective as a standing individual could potentially see the roadway over the top of the barrier. To provide adequate noise attenuation, a solid barrier height of at least 6 feet is recommended.

Interior Noise Levels within Residences Located Adjacent to Bass Lake Road

With construction of the required Bass Lake Road noise barrier, future traffic noise levels are not predicted to exceed 60 dB L_{dn} at the exterior first-floor facades of residences constructed along Bass Lake Road. Due to reduced ground absorption at elevated positions, and lack of shielding by barriers at upper floor areas, second-floor facade exterior noise levels are predicted

to be approximately 67 dB L_{dn}. Based on this level, a building facade noise reduction of 22 dB or less would be required to achieve an interior noise level of 45 dB L_{dn} within second-floor rooms, and 15 dB of noise reduction would be required for first-floor facades.

Standard residential construction (wood siding, STC-26 windows, door weather-stripping, exterior wall insulation, composition plywood roof), results in an exterior to interior noise reduction of 25 dB with windows closed and approximately 15 dB with windows open. Therefore, standard construction would be acceptable for this project at all residences of this development. Nonetheless, mechanical ventilation should be provided to allow occupants to close doors and windows as desired for acoustical isolation.

Evaluation of Serrano Village J5 Commercial Center Noise Generation

Noise Sources Evaluated

The major noise-producing components of the Serrano Village J5 Commercial Center identified as potentially significant consist of parking lot activity, rooftop mechanical equipment, and loading dock activities. Each of these noise sources are evaluated separately below.

Parking Lot Noise

As a means of determining potential noise exposure due to project parking lot activities, Bollard Acoustical Consultants, Inc. utilized noise level data collected for previous parking lot noise studies. A typical sound exposure level (SEL) due to automobile arrivals/departures, including car doors slamming and people conversing, is approximately 70 dB at a distance of 50 feet. The approximate distance between the center of the nearest proposed parking lot area, located just north of Building F, and the closest residential areas to the northeast, Lots 7 and 8, is 150 feet.

Based on the capacity of the nearest parking lot, it was assumed that 42 cars could enter or leave the parking lot within a worst-case hour. Parking lot noise exposure was determined using the following equation.

$$\text{Peak Hour } L_{eq} = 70 + 10 \cdot \log(N) - 35.6$$

Where 70 is the SEL for a single automobile parking operation, N is the number of parking lot operations in a peak hour, and 35.6 is 10 times the logarithm of the number of seconds in an hour.

Using the equation and operations data described above, the proposed parking lot could be expected to produce a noise exposure of approximately 41 dB Peak Hour L_{eq} at the closest residential property lines. Therefore, noise exposure is expected to comply with the County's noise exposure standards and is not expected to be a significant impact on the closest residents and no mitigation measures are required.

Mechanical Equipment Noise

Heating, ventilating, and air conditioning (HVAC) requirements for this store will likely be met using rooftop mounted systems located atop the building. The units would be shielded from view of neighboring residential uses by intervening building parapets.

BAC reference file data for packaged HVAC systems indicate that a 12.5-ton packaged unit can be expected to generate an A-weighted sound power level of 85 dB. When projected to the nearest residential property lines 175 feet from the equipment location, the resulting levels compute to approximately 35 dB L_{eq} , including 5 dB of shielding provided by the building parapets.

Because the predicted HVAC equipment noise level of 35 dB L_{eq} is below measured existing ambient noise levels in the project vicinity and below County noise standards, no noise impacts are identified for this aspect of the project, and no additional consideration of noise mitigation measures would be warranted.

Truck Delivery and Unloading Noise

According to the commercial site plans shown on Figure 3, the commercial area would have only one truck loading dock, as the smaller stores would load through the front entrance with smaller trucks. The loading dock associated with the Market is approximately 750 feet from the residential project site and would be completely shielded from view of those proposed residences by the intervening market building. Given this distance and shielding, truck unloading operations at the commercial market are predicted to be inaudible at the proposed residential locations, and well below El Dorado County noise standards. As a result, no noise impacts are identified for this aspect of the project, and no additional consideration of noise mitigation measures is warranted.

Conclusions

The residential portion of Serrano Village J5 & J6 project site will be exposed to future Bass Lake Road traffic noise levels in excess of El Dorado County 60 dB L_{dn} exterior noise level standard for new residential developments. The following specific noise mitigation measures are recommended to achieve compliance with the County's noise standards:

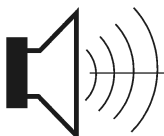
- A 6-foot tall barrier would be required to reduce future traffic noise levels to approximately 60 dB L_{dn} in the backyards located adjacent to Bass Lake Road. Figure 2 shows the recommended locations of the noise barrier.
- Suitable materials for the traffic noise barriers include masonry and precast concrete panels. Other materials may be acceptable but should be reviewed by an acoustical consultant prior to use.
- Mechanical ventilation (air conditioning) should be provided for all residences in this development to allow the occupants to close doors and windows as desired to achieve compliance with the applicable interior noise level criteria.

These conclusions are based on the Bass Lake Road traffic assumptions cited in Appendix E and on noise reduction data for standard residential dwellings. Deviations from the Appendix E data, or the project site plan shown in Figure 2, could cause future traffic noise levels to differ from those predicted in this analysis. In addition, Bollard Acoustical Consultants, Inc. is not responsible for degradation in acoustic performance of the residential construction due to poor construction practices, failure to comply with applicable building code requirements, or for failure to adhere to the minimum building practices cited in this report.

Appendix A

Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.
L_{dn}	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
L_{eq}	Equivalent or energy-averaged sound level.
L_{max}	The highest root-mean-square (RMS) sound level measured over a given period of time.
Loudness	A subjective term for the sensation of the magnitude of sound.
Masking	The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.
Noise	Unwanted sound.
Peak Noise	The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the Maximum level, which is the highest RMS level.
RT₆₀	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 sabin.
SEL	A rating, in decibels, of a discrete event, such as an aircraft flyover or train passby, that compresses the total sound energy of the event into a 1-s time period.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.



BOLLARD

Acoustical Consultants

Appendix B-1
Serrano Village J5 & J6
24hr Continuous Noise Monitoring at Site A
August 7-8, 2013

Hour	Leq	Lmax	L50	L90
15:00	57	69	55	43
16:00	58	70	57	45
17:00	60	75	58	51
18:00	60	70	58	48
19:00	59	76	57	46
20:00	58	69	57	46
21:00	57	72	55	40
22:00	56	73	48	34
23:00	53	68	41	31
0:00	52	67	35	29
1:00	49	67	31	27
2:00	45	65	28	25
3:00	49	66	30	26
4:00	53	69	34	28
5:00	59	75	54	37
6:00	62	75	60	47
7:00	62	75	61	52
8:00	61	73	58	48
9:00	58	76	53	43
10:00	57	81	51	41
11:00	57	76	53	42
12:00	56	69	51	40
13:00	57	78	52	42
14:00	56	72	51	41

Statistical Summary						
Daytime (7 a.m. - 10 p.m.)				Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	62.3	55.5	58.6	61.7	45.4	55.8
Lmax (Maximum)	81.5	68.7	73.4	75.1	65.2	69.4
L50 (Median)	61.2	50.9	55.2	60.4	27.8	40.2
L90 (Background)	51.9	40.0	44.6	47.1	25.3	31.6

Computed Ldn, dB	62.7
% Daytime Energy	76%
% Nighttime Energy	24%

Appendix B-2
Serrano Village J5 & J6
24hr Continuous Noise Monitoring at Site A
August 8-9, 2013

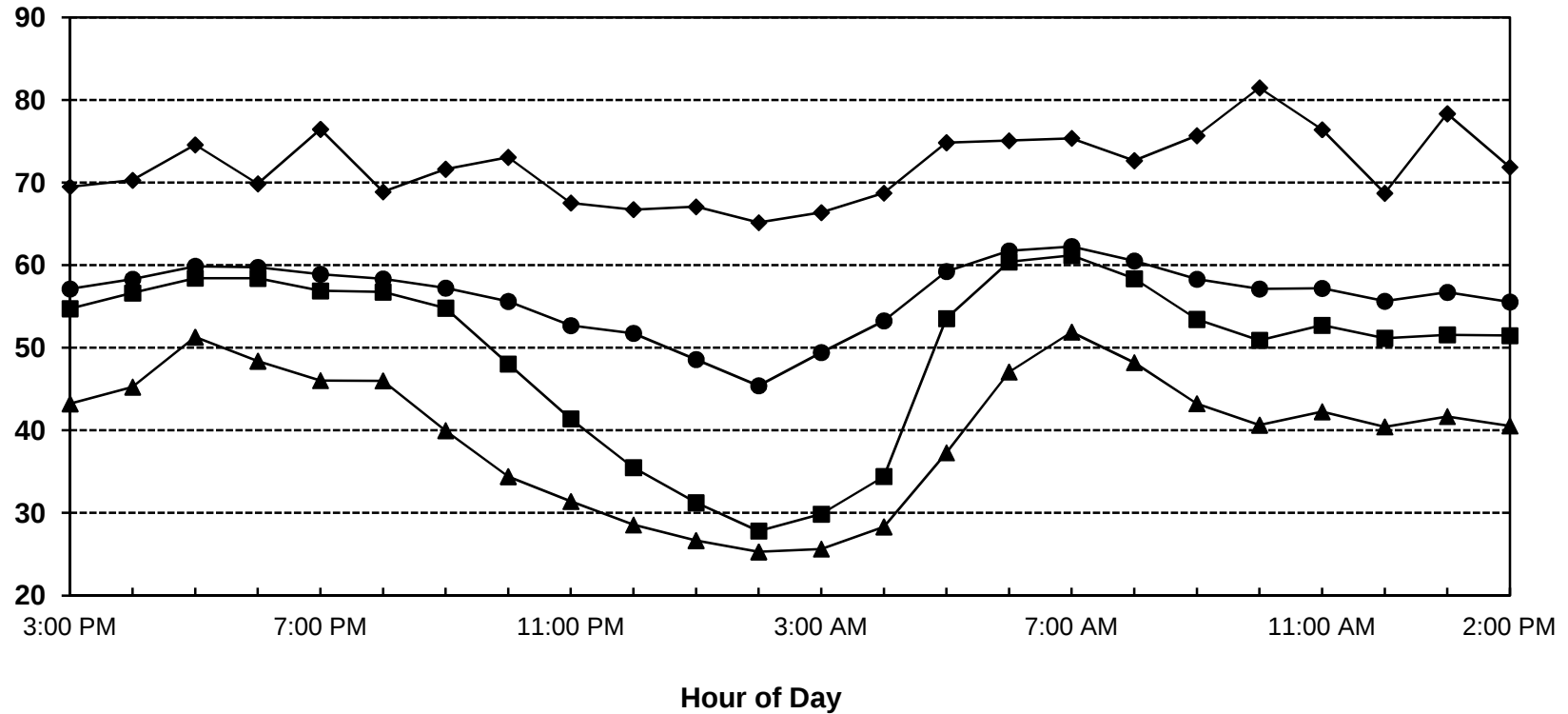
Hour	Leq	Lmax	L50	L90
15:00	56	71	53	43
16:00	57	77	55	45
17:00	58	70	56	47
18:00	58	69	56	45
19:00	58	72	56	45
20:00	57	68	56	44
21:00	58	69	56	47
22:00	54	68	48	33
23:00	53	67	42	32
0:00	51	68	39	31
1:00	51	70	34	27
2:00	47	64	28	25
3:00	45	66	29	26
4:00	53	73	35	30
5:00	58	73	51	39
6:00	62	73	61	47
7:00	63	74	62	53
8:00	61	75	59	49
9:00	58	71	54	43
10:00	57	72	52	41
11:00	57	76	51	39
12:00	57	72	52	38
13:00	57	76	52	40
14:00	57	72	54	43

Statistical Summary						
Daytime (7 a.m. - 10 p.m.)				Nighttime (10 p.m. - 7 a.m.)		
	High	Low	Average	High	Low	Average
Leq (Average)	63.0	56.2	58.3	62.2	45.1	55.7
Lmax (Maximum)	76.5	68.3	72.3	73.4	64.1	69.0
L50 (Median)	62.1	51.1	55.0	60.5	28.4	40.7
L90 (Background)	52.6	38.5	44.1	46.8	25.2	32.0

Computed Ldn, dB	62.6
% Daytime Energy	75%
% Nighttime Energy	25%

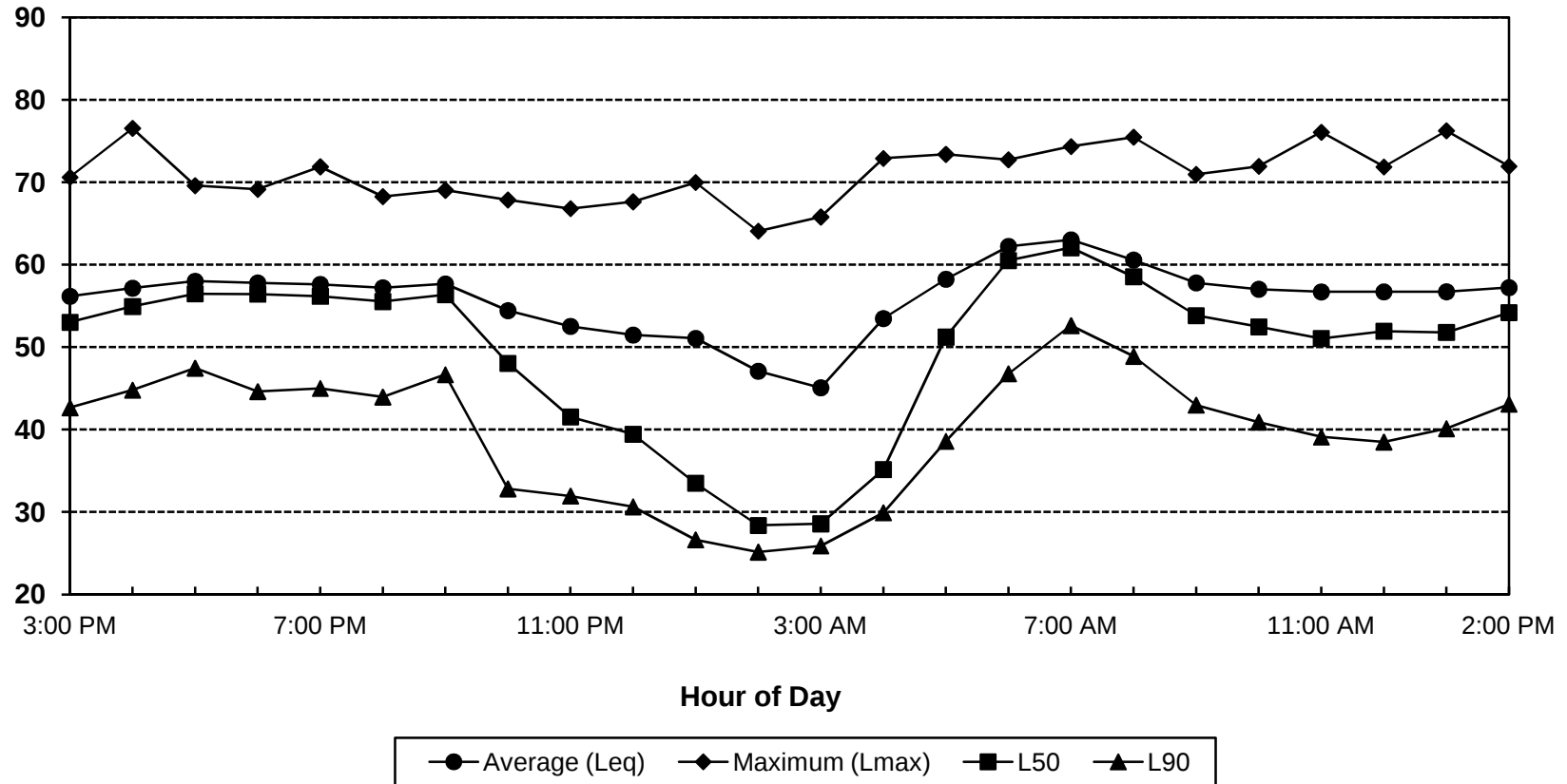
Appendix C-1
Serrano Village J5 & J6
24hr Continuous Noise Monitoring at Site A
August 7-8, 2013

Sound Level, dBA



Appendix C-2
Serrano Village J5 & J6
24hr Continuous Noise Monitoring at Site A
August 8-9, 2013

Sound Level, dBA



Ldn: 63 dB

Appendix D-1
FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)
Calibration Worksheet

Project Information: Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Tested: Bass Lake Road
Test Location: Site 1
Test Date: August 7, 2013

Weather Conditions: Temperature (Fahrenheit): 85
Relative Humidity: Moderate
Wind Speed and Direction: Calm
Cloud Cover: Clear

Sound Level Meter: Sound Level Meter: LDL Model 820
Calibrator: LDL Model CAL200
Meter Calibrated: Immediately before
Meter Settings: A-weighted, slow response

Microphone: Microphone Location: On project site
Distance to Centerline (feet): 80
Microphone Height: 5 feet above ground
Intervening Ground (Hard or Soft): **Soft**
Elevation Relative to Road (feet): 5

Roadway Condition: Pavement Type Asphalt
Pavement Condition: Good
Number of Lanes: 2
Posted Maximum Speed (mph): 50

Test Parameters: Test Time: 2:55 PM
Test Duration (minutes): 15
Observed Number Automobiles: 138
Observed Number Medium Trucks: 2
Observed Number Heavy Trucks: 0
Observed Average Speed (mph): 40

Model Calibration: Measured Average Level (L_{eq}): 59.1
Level Predicted by FHWA Model: 59.6
***Difference:* 0.5 dB**

Conclusions:

Appendix D-2
FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)
Calibration Worksheet

Project Information: Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Tested: Bass Lake Road
Test Location: Site 2
Test Date: August 7, 2013

Weather Conditions: Temperature (Fahrenheit): 85
Relative Humidity: Moderate
Wind Speed and Direction: Calm
Cloud Cover: Clear

Sound Level Meter: Sound Level Meter: LDL Model 820
Calibrator: LDL Model CAL200
Meter Calibrated: Immediately before
Meter Settings: A-weighted, slow response

Microphone: Microphone Location: On project site
Distance to Centerline (feet): 50
Microphone Height: 5 feet above ground
Intervening Ground (Hard or Soft): **Soft**
Elevation Relative to Road (feet): 5

Roadway Condition: Pavement Type Asphalt
Pavement Condition: Good
Number of Lanes: 2
Posted Maximum Speed (mph): 50

Test Parameters: Test Time: 2:30 PM
Test Duration (minutes): 15
Observed Number Automobiles: 74
Observed Number Medium Trucks: 2
Observed Number Heavy Trucks: 0
Observed Average Speed (mph): 50

Model Calibration: Measured Average Level (L_{eq}): 62.9
Level Predicted by FHWA Model: 63.0
***Difference:* 0.1 dB**

Conclusions:

Appendix E

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Prediction Worksheet

Project Information:

Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road

Traffic Data:

Year: 2035
Average Daily Traffic Volume: 7,900
Percent Daytime Traffic: 76
Percent Nighttime Traffic: 24
Percent Medium Trucks (2 axle): 2
Percent Heavy Trucks (3+ axle): 1
Assumed Vehicle Speed (mph): 50
Intervening Ground Type (hard/soft): **Soft**

Traffic Noise Levels:

-----L _{dn} , dB-----							
Location:	Description	Distance	Offset (dB)	Autos	Medium Trucks	Heavy Trucks	Total
1	Lot 15	95	0	63	54	55	64
2	Lot 23	90	0	64	55	56	65
3	Lot 28	90	0	64	55	56	65
4	Lot 77	140	0	61	52	53	62
5	Lot 96	95	0	63	54	55	64
6	Lot 101	245	0	57	48	49	58

Traffic Noise Contours (No Calibration Offset):

L _{dn} Contour, dB	Distance from Centerline, (ft)
75	19
70	41
65	87
60	188

Appendix F-1

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Barrier Effectiveness Prediction Worksheet

Project Information:

Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road
Location(s): Lot 15

Noise Level Data:

Year: 2035
Auto L_{dn} , dB: 63
Medium Truck L_{dn} , dB: 54
Heavy Truck L_{dn} , dB: 55

Site Geometry:

Receiver Description: Lot 15
Centerline to Barrier Distance (C_1): 80
Barrier to Receiver Distance (C_2): 15
Automobile Elevation: 1216
Medium Truck Elevation: 1218
Heavy Truck Elevation: 1224
Pad/Ground Elevation at Receiver: 1234
Receiver Elevation¹: 1239
Base of Barrier Elevation: 1234
Starting Barrier Height 5

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L_{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
1239	5	55	46	49	56	Yes	Yes	Yes
1240	6	54	45	47	55	Yes	Yes	Yes
1241	7	53	44	46	54	Yes	Yes	Yes
1242	8	52	43	45	53	Yes	Yes	Yes
1243	9	51	42	44	52	Yes	Yes	Yes
1244	10	50	41	43	51	Yes	Yes	Yes
1245	11	49	40	42	51	Yes	Yes	Yes
1246	12	49	40	42	50	Yes	Yes	Yes
1247	13	49	40	41	50	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Appendix F-2
FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)
Noise Barrier Effectiveness Prediction Worksheet

Project Information: Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road
Location(s): Lot 23

Noise Level Data: Year: 2035
Auto L_{dn} , dB: 64
Medium Truck L_{dn} , dB: 55
Heavy Truck L_{dn} , dB: 56

Site Geometry: Receiver Description: Lot 23
Centerline to Barrier Distance (C_1): 75
Barrier to Receiver Distance (C_2): 15
Automobile Elevation: 1237
Medium Truck Elevation: 1239
Heavy Truck Elevation: 1245
Pad/Ground Elevation at Receiver: 1251
Receiver Elevation¹: 1256
Base of Barrier Elevation: 1251
Starting Barrier Height 5

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L_{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
1256	5	56	47	50	57	Yes	Yes	Yes
1257	6	55	46	48	56	Yes	Yes	Yes
1258	7	53	45	47	55	Yes	Yes	Yes
1259	8	53	44	46	54	Yes	Yes	Yes
1260	9	52	43	45	53	Yes	Yes	Yes
1261	10	51	42	44	52	Yes	Yes	Yes
1262	11	50	41	43	51	Yes	Yes	Yes
1263	12	49	40	42	51	Yes	Yes	Yes
1264	13	49	40	42	50	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Appendix F-3

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Barrier Effectiveness Prediction Worksheet

Project Information:

Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road
Location(s): Lot 28

Noise Level Data:

Year: 2035
Auto L_{dn} , dB: 64
Medium Truck L_{dn} , dB: 55
Heavy Truck L_{dn} , dB: 56

Site Geometry:

Receiver Description: Lot 28
Centerline to Barrier Distance (C_1): 75
Barrier to Receiver Distance (C_2): 15
Automobile Elevation: 1250
Medium Truck Elevation: 1252
Heavy Truck Elevation: 1258
Pad/Ground Elevation at Receiver: 1268
Receiver Elevation¹: 1273
Base of Barrier Elevation: 1268
Starting Barrier Height 5

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L_{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
1273	5	55	46	49	56	Yes	Yes	Yes
1274	6	54	45	47	55	Yes	Yes	Yes
1275	7	53	44	46	54	Yes	Yes	Yes
1276	8	52	43	45	53	Yes	Yes	Yes
1277	9	51	42	44	52	Yes	Yes	Yes
1278	10	50	41	43	51	Yes	Yes	Yes
1279	11	50	41	42	51	Yes	Yes	Yes
1280	12	49	40	42	50	Yes	Yes	Yes
1281	13	48	40	41	50	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Appendix F-4

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Barrier Effectiveness Prediction Worksheet

Project Information:

Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road
Location(s): Lot 77

Noise Level Data:

Year: 2035
Auto L_{dn} , dB: 61
Medium Truck L_{dn} , dB: 52
Heavy Truck L_{dn} , dB: 53

Site Geometry:

Receiver Description: Lot 77
Centerline to Barrier Distance (C_1): 125
Barrier to Receiver Distance (C_2): 15
Automobile Elevation: 1251
Medium Truck Elevation: 1253
Heavy Truck Elevation: 1259
Pad/Ground Elevation at Receiver: 1285
Receiver Elevation¹: 1290
Base of Barrier Elevation: 1285
Starting Barrier Height 5

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L_{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
1290	5	52	43	45	53	Yes	Yes	Yes
1291	6	51	42	44	52	Yes	Yes	Yes
1292	7	50	41	43	51	Yes	Yes	Yes
1293	8	49	40	42	50	Yes	Yes	Yes
1294	9	48	39	41	49	Yes	Yes	Yes
1295	10	47	38	40	49	Yes	Yes	Yes
1296	11	47	38	39	48	Yes	Yes	Yes
1297	12	46	37	39	47	Yes	Yes	Yes
1298	13	46	37	38	47	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Appendix F-5
FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)
Noise Barrier Effectiveness Prediction Worksheet

Project Information: Job Number: 2013-070
Project Name: Serrano Villages J5 & J6
Roadway Name: Bass Lake Road
Location(s): Lot 96

Noise Level Data: Year: 2035
Auto L_{dn} , dB: 63
Medium Truck L_{dn} , dB: 54
Heavy Truck L_{dn} , dB: 55

Site Geometry: Receiver Description: Lot 96
Centerline to Barrier Distance (C_1): 80
Barrier to Receiver Distance (C_2): 15
Automobile Elevation: 1240
Medium Truck Elevation: 1242
Heavy Truck Elevation: 1248
Pad/Ground Elevation at Receiver: 1243
Receiver Elevation¹: 1248
Base of Barrier Elevation: 1243
Starting Barrier Height 5

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L_{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
1248	5	58	49	50	59	Yes	Yes	No
1249	6	57	48	50	58	Yes	Yes	Yes
1250	7	55	47	49	57	Yes	Yes	Yes
1251	8	54	45	48	56	Yes	Yes	Yes
1252	9	53	44	46	54	Yes	Yes	Yes
1253	10	52	43	45	54	Yes	Yes	Yes
1254	11	51	42	44	53	Yes	Yes	Yes
1255	12	50	41	43	52	Yes	Yes	Yes
1256	13	50	41	43	51	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Memo



455 Capitol Mall, Suite 300
Sacramento, CA 95814
916.444-7301

Date: April 26, 2017

To: Andrea Howard, Parker Development Company

From: Zach Miller and Honey Walters, Ascent Environmental

Subject: **Serrano Village J6 Residential Air Quality and Greenhouse Gas Emissions**

INTRODUCTION

The purpose of this memorandum is to estimate and compare the criteria air pollutant (CAP) (including precursor), and greenhouse gas (GHG) emissions of the Approved Land Use (204 halfplexes and 32,584 sf of retail uses) and the Proposed Land Use (148 single family dwellings). The results of emissions modeling using the California Emissions Estimator Model (CalEEMod) is presented below. Refer to Appendix A for a detailed summary of the modeling assumptions, inputs, and outputs.

MODELING RESULTS

Construction and operational emissions from the Approved Land Use and the Proposed Land Use were quantified and compared using CalEEMod Version 2016.3.1. Emissions were estimated based on data provided by the project applicant and trip generation rates from the Serrano Village Trip Generation Memo completed by Fehr & Peers.

Air Quality

Table 1 shows a comparison of the construction emissions for the Approved Land Use and Proposed Land Use development scenarios. As shown in Table 1, the Proposed Land Use would result in less combined net levels of construction-related CAP and precursor emissions in comparison to the Approved Land Use.

A comparison of the operational emissions for the Approved Land Use and Proposed Land Use is shown in Table 2. As shown in Table 2, the mass daily emissions generated by operational activities associated with the Proposed Land Use would be less than the operational emissions associated with the Approved Land Use for all sectors (i.e., area, energy, and mobile).

Greenhouse Gas

Table 3 summarizes the GHG emissions associated with the Proposed Land Use and the Approved Land Use. These emission estimates account for existing regulations pertaining to vehicle emissions, water consumption, wastewater and solid waste production, and building and energy efficiency standards. As shown in Table 3, the Proposed Land Use would result in less GHG emissions (2,009 MT CO₂e/year less) than that of the Approved Land Use.

Exhibit C

Table 1 Comparison of Construction -Generated Maximum Daily Emissions of Criteria Air Pollutants and Precursors

Construction Emissions	ROG (lbs/day)			NO _x (lbs/day)			CO (lbs/day)			PM ₁₀ (lbs/day) ²			PM _{2.5} (lbs/day) ²		
	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change
2017	10	6	-4	102	68	-34	62	40	-22	30	21	-9	18	13	-5
2018	45	5	-40	61	34	-27	56	33	-23	7	5	-2	4	2	-2
2019	5	4	-1	32	31	-1	33	31	-2	5	4	-1	2	2	0
2020	233	236	+3	29	28	-1	31	29	-2	5	4	-1	2	2	0
Combined Net Change			-42			-63			-49			-13			-7

Notes:

See Appendix A for detail on model inputs, assumptions, and project-specific modeling parameters.

lbs/day = pounds per day ROG =reactive organic gases NO_x =oxides of nitrogen PM₁₀ = respirable particulate matter with an aerodynamic diameter of 10 micrometers or less PM_{2.5} =respirable particulate matter with an aerodynamic diameter of 2.5 micrometers or less

Source: Modeling performed by Ascent Environmental in 2017.

Table 2 Comparison of Maximum Daily Emissions of Criteria Air Pollutants and Precursors Associated with Operation

Operational Emissions	ROG (lbs/day)			NO _x (lbs/day)			CO (lbs/day)			PM ₁₀ (lbs/day)			PM _{2.5} (lbs/day)		
	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change	Approved Land Use	Proposed Land Use	Net Change
Area	14	13	-1	4	3	-1	18	13	-5	<1	<1	0	<1	<1	0
Energy	<1	<1	-0	<1	<1	0	<1	<1	0	<1	<1	0	<1	<1	0
Mobile	10	4	-6	27	14	-13	96	50	-46	21	12	-9	5	3	-2
Combined Net Change			-7			-14			-51			-9			-2

Notes:

See Appendix A for detail on model inputs, assumptions, and project-specific modeling parameters.

lbs/day = pounds per day ROG =reactive organic gases NO_x =oxides of nitrogen PM₁₀ = respirable particulate matter with an aerodynamic diameter of 10 micrometers or less PM_{2.5} =respirable particulate matter with an aerodynamic diameter of 2.5 micrometers or less

Source: Modeling performed by Ascent Environmental in 2017.

Table 3 Greenhouse Gas Emissions Comparison Summary

Sector	Approved Land Use	Proposed Land Use	Net Change
	Greenhouse Gas Emissions (MT CO ₂ e/year)		
Area	165	119	-46
Energy	437	266	-171
Mobile	3,778	2,070	-1,708
Waste	113	57	-56
Water	37	24	-13
Construction Emissions, Amortized	70	55	-15
Total Mass GHG Emissions	4,600	2,591	-2,009

Notes:

See Appendix A for detail on model inputs, assumptions, and modeling parameters.

MT = metric tons

CO₂e = carbon dioxide-equivalent

Source: Modeling and calculations conducted by Ascent Environmental 2017.

Appendix A

Air Quality and Greenhouse Gas Modeling

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Serrano Village Adopted Land Use (Commercial)

El Dorado County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	5.75	1000sqft	0.57	5,750.00	0
Pharmacy/Drugstore with Drive Thru	14.50	1000sqft	1.45	14,500.00	0
Convenience Market With Gas Pumps	3.13	1000sqft	0.09	3,134.00	0
Strip Mall	9.20	1000sqft	0.92	9,200.00	0
Parking Lot	159.00	Space	1.43	63,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Lot acreages calculated based on % of CalEEMod default acreages.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Trip generation rate of Neighborhood Retail from Fehr and Peers memo for Approved Land Use.

Woodstoves -

Energy Use - 5% energy reduction for Title 24 commercial land uses per CEC.

Water Mitigation - Per Project Description.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	PhaseEndDate	6/3/2020	8/22/2018
tblConstructionPhase	PhaseEndDate	2/19/2020	7/25/2018
tblConstructionPhase	PhaseEndDate	9/6/2017	6/28/2017
tblConstructionPhase	PhaseEndDate	3/18/2020	7/26/2017
tblConstructionPhase	PhaseStartDate	3/19/2020	7/26/2018
tblConstructionPhase	PhaseStartDate	9/7/2017	7/27/2017
tblConstructionPhase	PhaseStartDate	6/15/2017	6/1/2017

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblConstructionPhase	PhaseStartDate	2/20/2020	6/29/2017
tblEnergyUse	T24E	0.65	0.62
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24NG	3.22	3.10
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblGrading	AcresOfGrading	10.00	4.46
tblLandUse	LotAcreage	0.13	0.57
tblLandUse	LotAcreage	0.33	1.45
tblLandUse	LotAcreage	0.07	0.09
tblLandUse	LotAcreage	0.21	0.92
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleEF	HHD	0.15	0.12
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	2.26	1.88
tblVehicleEF	HHD	1.75	1.57
tblVehicleEF	HHD	11.48	10.68
tblVehicleEF	HHD	3,002.58	3,067.84
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	HHD	19.72	18.41
tblVehicleEF	HHD	6.62	5.91
tblVehicleEF	HHD	17.70	17.69
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.50
tblVehicleEF	HHD	1.8900e-004	1.7300e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7600e-004	4.5800e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.70	0.57
tblVehicleEF	HHD	1.8900e-004	1.7300e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.41	0.36
tblVehicleEF	HHD	0.14	0.11
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	1.65	1.37
tblVehicleEF	HHD	1.80	1.61
tblVehicleEF	HHD	10.15	9.46
tblVehicleEF	HHD	3,178.66	3,248.50
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	20.35	19.00
tblVehicleEF	HHD	6.33	5.65
tblVehicleEF	HHD	17.62	17.62
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.34	0.30
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5400e-004	4.3700e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	3.11	2.58
tblVehicleEF	HHD	1.72	1.54
tblVehicleEF	HHD	12.46	11.58
tblVehicleEF	HHD	2,759.42	2,818.35
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	18.86	17.60

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	HHD	6.69	5.97
tblVehicleEF	HHD	17.75	17.74
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.40	0.35
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.9200e-004	4.7200e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.76	0.62
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.22	0.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.44	0.38
tblVehicleEF	LDA	5.4280e-003	4.8070e-003
tblVehicleEF	LDA	9.3330e-003	7.9280e-003
tblVehicleEF	LDA	0.70	0.64
tblVehicleEF	LDA	1.82	1.60
tblVehicleEF	LDA	281.32	270.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	2.8180e-003	2.7110e-003
tblVehicleEF	LDA	6.6000e-004	6.3500e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	6.1390e-003	5.4430e-003
tblVehicleEF	LDA	7.3130e-003	6.2200e-003
tblVehicleEF	LDA	0.84	0.77
tblVehicleEF	LDA	1.39	1.22
tblVehicleEF	LDA	306.45	294.78
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.08
tblVehicleEF	LDA	3.0710e-003	2.9540e-003
tblVehicleEF	LDA	6.5200e-004	6.2800e-004
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	5.2410e-003	4.6330e-003
tblVehicleEF	LDA	0.01	9.0330e-003
tblVehicleEF	LDA	0.68	0.62
tblVehicleEF	LDA	2.13	1.87
tblVehicleEF	LDA	275.07	264.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	2.7550e-003	2.6510e-003
tblVehicleEF	LDA	6.6500e-004	6.4000e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.16	0.13
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	2.33	2.03
tblVehicleEF	LDT1	7.03	6.33
tblVehicleEF	LDT1	347.96	339.27
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	0.34	0.31
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.51	0.45
tblVehicleEF	LDT1	3.5120e-003	3.4200e-003
tblVehicleEF	LDT1	9.0300e-004	8.7500e-004
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.56	0.49
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.65	2.33
tblVehicleEF	LDT1	5.34	4.81
tblVehicleEF	LDT1	376.03	366.85
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.30	0.28
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.39	0.35
tblVehicleEF	LDT1	3.7970e-003	3.7000e-003
tblVehicleEF	LDT1	8.7200e-004	8.4800e-004
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.08	0.07

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.43	0.38
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.29	1.99
tblVehicleEF	LDT1	8.28	7.46
tblVehicleEF	LDT1	340.95	332.39
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.37	0.34
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.59	0.51
tblVehicleEF	LDT1	3.4410e-003	3.3500e-003
tblVehicleEF	LDT1	9.2500e-004	8.9500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.64	0.56
tblVehicleEF	LDT2	9.1970e-003	8.2920e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.13	1.03
tblVehicleEF	LDT2	3.25	2.93
tblVehicleEF	LDT2	397.32	386.56
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	0.27	0.24
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.23	0.20
tblVehicleEF	LDT2	3.9840e-003	3.8750e-003
tblVehicleEF	LDT2	9.4900e-004	9.2300e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.25	0.22
tblVehicleEF	LDT2	0.01	9.3100e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.32	1.22
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tblVehicleEF	LDT2	430.28	418.76
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	0.24	0.22
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.18	0.16
tblVehicleEF	LDT2	4.3170e-003	4.2000e-003
tblVehicleEF	LDT2	9.3600e-004	9.1100e-004
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	8.8910e-003	8.0000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.09	1.00
tblVehicleEF	LDT2	3.79	3.42
tblVehicleEF	LDT2	389.09	378.51
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	0.30	0.26
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.26	0.23
tblVehicleEF	LDT2	3.9020e-003	3.7940e-003
tblVehicleEF	LDT2	9.5900e-004	9.3200e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.29	0.25
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.97	1.91
tblVehicleEF	LHD1	3.17	3.09
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.36	3.23
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.31	0.30
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7920e-003	6.7880e-003
tblVehicleEF	LHD1	3.1400e-004	3.1500e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.34	0.33
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	2.02	1.96
tblVehicleEF	LHD1	2.80	2.73
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.17	3.06
tblVehicleEF	LHD1	0.86	0.87
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7930e-003	6.7880e-003
tblVehicleEF	LHD1	3.0700e-004	3.0800e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.94	1.88
tblVehicleEF	LHD1	3.41	3.32
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.40	3.27
tblVehicleEF	LHD1	0.99	1.00
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.21	0.20
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7910e-003	6.7870e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD1	3.1800e-004	3.1900e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.36	0.35
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.8180e-003	6.3140e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.06	1.00
tblVehicleEF	LHD2	1.02	0.96
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.84	2.62
tblVehicleEF	LHD2	0.35	0.34
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5800e-004	1.5900e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2910e-003	5.8310e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.07	1.01
tblVehicleEF	LHD2	0.90	0.85
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.69	2.49
tblVehicleEF	LHD2	0.32	0.31
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5600e-004	1.5700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1730e-003	6.6400e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.05	0.99
tblVehicleEF	LHD2	1.09	1.03
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.86	2.64
tblVehicleEF	LHD2	0.37	0.35
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5900e-004	1.6000e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	MCY	0.43	0.44
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	24.38	23.81
tblVehicleEF	MCY	10.88	10.90
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.23	1.22
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	2.72	2.68
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.63	2.61
tblVehicleEF	MCY	2.1510e-003	2.1490e-003
tblVehicleEF	MCY	7.5700e-004	7.5300e-004
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	3.24	3.21
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.86	2.84
tblVehicleEF	MCY	0.41	0.42
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.96	22.45
tblVehicleEF	MCY	9.25	9.24
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	2.53	2.50
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.03	2.01
tblVehicleEF	MCY	2.1220e-003	2.1210e-003
tblVehicleEF	MCY	7.1100e-004	7.0700e-004
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44
tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	3.03	3.00
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.20	2.19
tblVehicleEF	MCY	0.45	0.46
tblVehicleEF	MCY	0.23	0.22
tblVehicleEF	MCY	26.43	25.78
tblVehicleEF	MCY	12.28	12.31
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.31	1.30
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.88	2.83
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.08	3.05
tblVehicleEF	MCY	2.1880e-003	2.1850e-003
tblVehicleEF	MCY	7.9300e-004	7.9000e-004
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.43	3.39
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.35	3.32
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.74	1.61
tblVehicleEF	MDV	5.66	5.32
tblVehicleEF	MDV	527.31	515.77
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.49	0.46
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.43
tblVehicleEF	MDV	5.2890e-003	5.1720e-003
tblVehicleEF	MDV	1.2730e-003	1.2500e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.51	0.47
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.01	1.87
tblVehicleEF	MDV	4.41	4.14
tblVehicleEF	MDV	570.31	557.87
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.20	0.18
tblVehicleEF	MDV	0.43	0.40
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.34
tblVehicleEF	MDV	5.7230e-003	5.5960e-003
tblVehicleEF	MDV	1.2500e-003	1.2280e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.40	0.37
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.70	1.57
tblVehicleEF	MDV	6.59	6.20
tblVehicleEF	MDV	516.57	505.26
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.25	0.23
tblVehicleEF	MDV	0.53	0.50
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.53	0.49
tblVehicleEF	MDV	5.1810e-003	5.0660e-003
tblVehicleEF	MDV	1.2900e-003	1.2650e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.58	0.54
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.96	4.44
tblVehicleEF	MH	8.21	7.79
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.49	2.42
tblVehicleEF	MH	1.05	1.02
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.20	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.45
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.3600e-004	7.1400e-004
tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.53	0.49
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	5.15	4.65
tblVehicleEF	MH	7.06	6.67
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.30	2.24
tblVehicleEF	MH	0.96	0.94
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.20	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1600e-004	6.9500e-004
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.27	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.44
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.88	4.32
tblVehicleEF	MH	8.97	8.51
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.55	2.48
tblVehicleEF	MH	1.11	1.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.19	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.48
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.4900e-004	7.2600e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.57	0.52
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.09	0.08
tblVehicleEF	MHD	0.48	0.42
tblVehicleEF	MHD	0.97	0.73
tblVehicleEF	MHD	9.64	8.64
tblVehicleEF	MHD	169.60	169.82
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.41	1.21
tblVehicleEF	MHD	3.64	2.86
tblVehicleEF	MHD	12.96	12.99
tblVehicleEF	MHD	6.5330e-003	4.5160e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	6.2500e-003	4.3210e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	1.6280e-003	1.6300e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.7800e-004	6.4200e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.60	0.53

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.34	0.29
tblVehicleEF	MHD	0.99	0.74
tblVehicleEF	MHD	8.48	7.59
tblVehicleEF	MHD	179.79	180.02
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.46	1.25
tblVehicleEF	MHD	3.44	2.71
tblVehicleEF	MHD	12.85	12.89
tblVehicleEF	MHD	5.5070e-003	3.8070e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	5.2690e-003	3.6430e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.50	0.44
tblVehicleEF	MHD	1.7240e-003	1.7260e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5800e-004	6.2500e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.10	0.09
tblVehicleEF	MHD	0.64	0.56
tblVehicleEF	MHD	0.96	0.72
tblVehicleEF	MHD	10.45	9.35
tblVehicleEF	MHD	155.83	156.03
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.35	1.16
tblVehicleEF	MHD	3.67	2.89
tblVehicleEF	MHD	13.04	13.06
tblVehicleEF	MHD	7.9490e-003	5.4950e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	7.6050e-003	5.2580e-003
tblVehicleEF	MHD	0.09	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.58	0.51
tblVehicleEF	MHD	1.4980e-003	1.5000e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9200e-004	6.5500e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.63	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.33	1.15
tblVehicleEF	OBUS	10.07	9.37
tblVehicleEF	OBUS	128.18	130.57
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.85	0.79
tblVehicleEF	OBUS	3.06	2.70
tblVehicleEF	OBUS	3.55	3.48
tblVehicleEF	OBUS	4.7000e-004	3.6800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	4.4900e-004	3.5200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	1.2350e-003	1.2580e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5700e-004	8.4000e-004
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.64	0.60
tblVehicleEF	OBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.37	1.19
tblVehicleEF	OBUS	8.78	8.17
tblVehicleEF	OBUS	134.81	137.34
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.88	0.82
tblVehicleEF	OBUS	2.89	2.56
tblVehicleEF	OBUS	3.42	3.36
tblVehicleEF	OBUS	3.9600e-004	3.1000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	3.7900e-004	2.9700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.54	0.50
tblVehicleEF	OBUS	1.2980e-003	1.3220e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3500e-004	8.1900e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.30	1.13
tblVehicleEF	OBUS	10.91	10.15
tblVehicleEF	OBUS	119.04	121.22
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.81	0.76
tblVehicleEF	OBUS	3.10	2.74
tblVehicleEF	OBUS	3.64	3.57
tblVehicleEF	OBUS	5.7100e-004	4.4800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	5.4700e-004	4.2900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.12	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.62	0.58
tblVehicleEF	OBUS	1.1480e-003	1.1680e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.7100e-004	8.5300e-004
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.15	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.68	0.63
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.16	0.14
tblVehicleEF	SBUS	4.03	3.99
tblVehicleEF	SBUS	1.29	1.06
tblVehicleEF	SBUS	9.04	7.89
tblVehicleEF	SBUS	1,366.48	1,365.44
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	15.54	14.97
tblVehicleEF	SBUS	6.87	6.46
tblVehicleEF	SBUS	17.44	17.40
tblVehicleEF	SBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.41	0.35
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.9700e-004	3.7300e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.68	0.67
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.45	0.38
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.12	0.11

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	SBUS	3.83	3.80
tblVehicleEF	SBUS	1.34	1.09
tblVehicleEF	SBUS	5.80	5.06
tblVehicleEF	SBUS	1,440.58	1,439.59
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	16.04	15.45
tblVehicleEF	SBUS	6.52	6.13
tblVehicleEF	SBUS	17.38	17.35
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.48	0.47
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.32	0.27
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	SBUS	3.4300e-004	3.2600e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.35	0.30
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.18	0.15
tblVehicleEF	SBUS	4.30	4.25
tblVehicleEF	SBUS	1.27	1.04
tblVehicleEF	SBUS	11.01	9.61
tblVehicleEF	SBUS	1,264.16	1,263.03
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	14.86	14.31
tblVehicleEF	SBUS	6.95	6.54
tblVehicleEF	SBUS	17.48	17.43
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.49	0.48
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.46	0.39
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3000e-004	4.0100e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.19	0.18
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.51	0.43
tblVehicleEF	UBUS	0.69	0.65
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.69	7.44
tblVehicleEF	UBUS	17.67	17.48
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.81	5.43

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	UBUS	13.88	13.73
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	0.79	0.76
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.23	1.24
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5840e-003	1.5990e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	1.54	1.46
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.35	1.36
tblVehicleEF	UBUS	0.71	0.67
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.94	7.68
tblVehicleEF	UBUS	12.10	11.97
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.53	5.16
tblVehicleEF	UBUS	13.75	13.60
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	0.83	0.80
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.98	0.99
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.4880e-003	1.5050e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	1.60	1.52
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.08	1.09
tblVehicleEF	UBUS	0.68	0.64
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.53	7.28
tblVehicleEF	UBUS	21.12	20.87

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.90	5.52
tblVehicleEF	UBUS	13.98	13.83
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	0.76	0.73
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.39	1.40
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6430e-003	1.6570e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	1.50	1.43
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.52	1.53
tblVehicleTrips	ST_TR	86.32	58.73
tblVehicleTrips	ST_TR	1,448.33	58.73

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

tblVehicleTrips	ST_TR	96.91	58.73
tblVehicleTrips	ST_TR	42.04	58.73
tblVehicleTrips	SU_TR	31.90	58.73
tblVehicleTrips	SU_TR	1,182.08	58.73
tblVehicleTrips	SU_TR	96.91	58.73
tblVehicleTrips	SU_TR	20.43	58.73
tblVehicleTrips	WD_TR	148.15	58.73
tblVehicleTrips	WD_TR	845.60	58.73
tblVehicleTrips	WD_TR	96.91	58.73
tblVehicleTrips	WD_TR	44.32	58.73

2.0 Emissions Summary

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

2.1 Overall Construction

Unmitigated Construction

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.2524	2.1480	1.5352	2.5400e-003	0.0975	0.1299	0.2274	0.0428	0.1215	0.1642	0.0000	229.7556	229.7556	0.0487	0.0000	230.9727
2018	0.6313	1.9351	1.5494	2.6800e-003	0.0413	0.1144	0.1557	0.0112	0.1077	0.1188	0.0000	239.1743	239.1743	0.0454	0.0000	240.3090
Maximum	0.6313	2.1480	1.5494	2.6800e-003	0.0975	0.1299	0.2274	0.0428	0.1215	0.1642	0.0000	239.1743	239.1743	0.0487	0.0000	240.3090

Mitigated Construction

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.2524	2.1480	1.5352	2.5400e-003	0.0975	0.1299	0.2274	0.0428	0.1215	0.1642	0.0000	229.7554	229.7554	0.0487	0.0000	230.9724
2018	0.6313	1.9351	1.5494	2.6800e-003	0.0413	0.1144	0.1557	0.0112	0.1077	0.1188	0.0000	239.1741	239.1741	0.0454	0.0000	240.3088
Maximum	0.6313	2.1480	1.5494	2.6800e-003	0.0975	0.1299	0.2274	0.0428	0.1215	0.1642	0.0000	239.1741	239.1741	0.0487	0.0000	240.3088

[illegible]

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2017	8-31-2017	0.9846	0.9846
2	9-1-2017	11-30-2017	1.0663	1.0663
3	12-1-2017	2-28-2018	0.9751	0.9751
4	3-1-2018	5-31-2018	0.9505	0.9505
5	6-1-2018	8-31-2018	0.9911	0.9911
		Highest	1.0663	1.0663

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003
Energy	1.1000e-003	0.0100	8.4300e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	69.7105	69.7105	6.0900e-003	1.4200e-003	70.2848
Mobile	0.5828	1.5193	5.0772	0.0102	0.8098	0.0134	0.8233	0.2173	0.0126	0.2299	0.0000	924.1166	924.1166	0.0411	0.0000	925.1442
Waste						0.0000	0.0000		0.0000	0.0000	13.8095	0.0000	13.8095	0.8161	0.0000	34.2124
Water						0.0000	0.0000		0.0000	0.0000	0.6861	2.1496	2.8357	0.0707	1.7100e-003	5.1119
Total	0.7554	1.5293	5.0874	0.0102	0.8098	0.0142	0.8240	0.2173	0.0134	0.2307	14.4956	995.9800	1,010.4756	0.9340	3.1300e-003	1,034.7569

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003
Energy	1.1000e-003	0.0100	8.4300e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	69.7105	69.7105	6.0900e-003	1.4200e-003	70.2848
Mobile	0.5828	1.5193	5.0772	0.0102	0.8098	0.0134	0.8233	0.2173	0.0126	0.2299	0.0000	924.1166	924.1166	0.0411	0.0000	925.1442
Waste						0.0000	0.0000		0.0000	0.0000	13.8095	0.0000	13.8095	0.8161	0.0000	34.2124
Water						0.0000	0.0000		0.0000	0.0000	0.6861	1.9055	2.5916	0.0707	1.7000e-003	4.8657
Total	0.7554	1.5293	5.0874	0.0102	0.8098	0.0142	0.8240	0.2173	0.0134	0.2307	14.4956	995.7359	1,010.2315	0.9340	3.1200e-003	1,034.5106

	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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.32	0.02

3.0 Construction Detail**Construction Phase**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2017	6/28/2017	5	20	
2	Paving	Paving	6/29/2017	7/26/2017	5	20	
3	Building Construction	Building Construction	7/27/2017	7/25/2018	5	260	Underground and Building Construction
4	Architectural Coating	Architectural Coating	7/26/2018	8/22/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.46

Acres of Paving: 1.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,876; Non-Residential Outdoor: 16,292; Striped Parking Area: 3,816 (Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	Hauling Vehicle Class
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	37.00	16.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.2 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0626	0.0000	0.0626	0.0334	0.0000	0.0334	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.3389	0.1710	3.0000e-004		0.0178	0.0178		0.0164	0.0164	0.0000	27.5595	27.5595	8.4400e-003	0.0000	27.7706
Total	0.0307	0.3389	0.1710	3.0000e-004	0.0626	0.0178	0.0804	0.0334	0.0164	0.0497	0.0000	27.5595	27.5595	8.4400e-003	0.0000	27.7706

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995
Total	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.2 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0626	0.0000	0.0626	0.0334	0.0000	0.0334	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.3389	0.1710	3.0000e-004		0.0178	0.0178		0.0164	0.0164	0.0000	27.5594	27.5594	8.4400e-003	0.0000	27.7705
Total	0.0307	0.3389	0.1710	3.0000e-004	0.0626	0.0178	0.0804	0.0334	0.0164	0.0497	0.0000	27.5594	27.5594	8.4400e-003	0.0000	27.7705

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995
Total	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.3 Paving - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.1704	0.1266	1.9000e-004		0.0102	0.0102		9.3800e-003	9.3800e-003	0.0000	17.2526	17.2526	5.1500e-003	0.0000	17.3813
Paving	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0186	0.1704	0.1266	1.9000e-004		0.0102	0.0102		9.3800e-003	9.3800e-003	0.0000	17.2526	17.2526	5.1500e-003	0.0000	17.3813

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.3300e-003	0.0138	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3969	2.3969	1.0000e-004	0.0000	2.3994
Total	1.8400e-003	1.3300e-003	0.0138	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3969	2.3969	1.0000e-004	0.0000	2.3994

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.3 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0168	0.1704	0.1266	1.9000e-004		0.0102	0.0102		9.3800e-003	9.3800e-003	0.0000	17.2526	17.2526	5.1500e-003	0.0000	17.3813
Paving	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0186	0.1704	0.1266	1.9000e-004		0.0102	0.0102		9.3800e-003	9.3800e-003	0.0000	17.2526	17.2526	5.1500e-003	0.0000	17.3813

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.3300e-003	0.0138	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3969	2.3969	1.0000e-004	0.0000	2.3994
Total	1.8400e-003	1.3300e-003	0.0138	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3969	2.3969	1.0000e-004	0.0000	2.3994

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1744	1.4871	1.0182	1.5100e-003		0.1001	0.1001		0.0940	0.0940	0.0000	134.6760	134.6760	0.0332	0.0000	135.5055
Total	0.1744	1.4871	1.0182	1.5100e-003		0.1001	0.1001		0.0940	0.0940	0.0000	134.6760	134.6760	0.0332	0.0000	135.5055

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3200e-003	0.1356	0.0524	2.2000e-004	5.2600e-003	1.5400e-003	6.8100e-003	1.5200e-003	1.4800e-003	3.0000e-003	0.0000	21.2412	21.2412	7.1000e-004	0.0000	21.2588
Worker	0.0191	0.0138	0.1428	2.8000e-004	0.0254	2.2000e-004	0.0256	6.7500e-003	2.0000e-004	6.9500e-003	0.0000	24.8318	24.8318	1.0300e-003	0.0000	24.8576
Total	0.0254	0.1494	0.1952	5.0000e-004	0.0306	1.7600e-003	0.0324	8.2700e-003	1.6800e-003	9.9500e-003	0.0000	46.0730	46.0730	1.7400e-003	0.0000	46.1164

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1744	1.4871	1.0182	1.5100e-003		0.1001	0.1001		0.0940	0.0940	0.0000	134.6758	134.6758	0.0332	0.0000	135.5053
Total	0.1744	1.4871	1.0182	1.5100e-003		0.1001	0.1001		0.0940	0.0940	0.0000	134.6758	134.6758	0.0332	0.0000	135.5053

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3200e-003	0.1356	0.0524	2.2000e-004	5.2600e-003	1.5400e-003	6.8100e-003	1.5200e-003	1.4800e-003	3.0000e-003	0.0000	21.2412	21.2412	7.1000e-004	0.0000	21.2588
Worker	0.0191	0.0138	0.1428	2.8000e-004	0.0254	2.2000e-004	0.0256	6.7500e-003	2.0000e-004	6.9500e-003	0.0000	24.8318	24.8318	1.0300e-003	0.0000	24.8576
Total	0.0254	0.1494	0.1952	5.0000e-004	0.0306	1.7600e-003	0.0324	8.2700e-003	1.6800e-003	9.9500e-003	0.0000	46.0730	46.0730	1.7400e-003	0.0000	46.1164

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1983	1.7309	1.3010	1.9900e-003		0.1110	0.1110		0.1043	0.1043	0.0000	175.9478	175.9478	0.0431	0.0000	177.0254
Total	0.1983	1.7309	1.3010	1.9900e-003		0.1110	0.1110		0.1043	0.1043	0.0000	175.9478	175.9478	0.0431	0.0000	177.0254

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.1678	0.0613	3.0000e-004	6.9600e-003	1.6200e-003	8.5800e-003	2.0100e-003	1.5500e-003	3.5600e-003	0.0000	27.9562	27.9562	8.1000e-004	0.0000	27.9765
Worker	0.0226	0.0159	0.1644	3.5000e-004	0.0335	2.8000e-004	0.0338	8.9200e-003	2.5000e-004	9.1700e-003	0.0000	31.9015	31.9015	1.1900e-003	0.0000	31.9314
Total	0.0298	0.1837	0.2257	6.5000e-004	0.0405	1.9000e-003	0.0424	0.0109	1.8000e-003	0.0127	0.0000	59.8577	59.8577	2.0000e-003	0.0000	59.9078

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1983	1.7309	1.3010	1.9900e-003		0.1110	0.1110		0.1043	0.1043	0.0000	175.9475	175.9475	0.0431	0.0000	177.0252
Total	0.1983	1.7309	1.3010	1.9900e-003		0.1110	0.1110		0.1043	0.1043	0.0000	175.9475	175.9475	0.0431	0.0000	177.0252

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.1678	0.0613	3.0000e-004	6.9600e-003	1.6200e-003	8.5800e-003	2.0100e-003	1.5500e-003	3.5600e-003	0.0000	27.9562	27.9562	8.1000e-004	0.0000	27.9765
Worker	0.0226	0.0159	0.1644	3.5000e-004	0.0335	2.8000e-004	0.0338	8.9200e-003	2.5000e-004	9.1700e-003	0.0000	31.9015	31.9015	1.1900e-003	0.0000	31.9314
Total	0.0298	0.1837	0.2257	6.5000e-004	0.0405	1.9000e-003	0.0424	0.0109	1.8000e-003	0.0127	0.0000	59.8577	59.8577	2.0000e-003	0.0000	59.9078

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.5 Architectural Coating - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593
Total	0.4027	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.1000e-004	4.2000e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8156	0.8156	3.0000e-005	0.0000	0.8164
Total	5.8000e-004	4.1000e-004	4.2000e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8156	0.8156	3.0000e-005	0.0000	0.8164

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

3.5 Architectural Coating - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593
Total	0.4027	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5593

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.1000e-004	4.2000e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8156	0.8156	3.0000e-005	0.0000	0.8164
Total	5.8000e-004	4.1000e-004	4.2000e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8156	0.8156	3.0000e-005	0.0000	0.8164

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5828	1.5193	5.0772	0.0102	0.8098	0.0134	0.8233	0.2173	0.0126	0.2299	0.0000	924.1166	924.1166	0.0411	0.0000	925.1442
Unmitigated	0.5828	1.5193	5.0772	0.0102	0.8098	0.0134	0.8233	0.2173	0.0126	0.2299	0.0000	924.1166	924.1166	0.0411	0.0000	925.1442

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Bank (with Drive-Through)	337.70	337.70	337.70	299,572	299,572
Convenience Market With Gas Pumps	184.06	184.06	184.06	90,311	90,311
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	851.59	851.59	851.59	936,779	936,779
Strip Mall	540.32	540.32	540.32	862,328	862,328
Total	1,913.66	1,913.66	1,913.66	2,188,990	2,188,990

4.3 Trip Type Information

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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	Pass-by
Bank (with Drive-Through)	14.70	6.60	6.60	6.60	74.40	19.00	27	26	47
Convenience Market With Gas	14.70	6.60	6.60	0.80	80.20	19.00	14	21	65
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	14.70	6.60	6.60	7.50	73.50	19.00	38	13	49
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Bank (with Drive-Through)	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Pharmacy/Drugstore with Drive Thru	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Convenience Market With Gas Pumps	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Strip Mall	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Parking Lot	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	58.7836	58.7836	5.8800e-003	1.2200e-003	59.2930
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	58.7836	58.7836	5.8800e-003	1.2200e-003	59.2930
NaturalGas Mitigated	1.1000e-003	0.0100	8.4300e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.9269	10.9269	2.1000e-004	2.0000e-004	10.9918
NaturalGas Unmitigated	1.1000e-003	0.0100	8.4300e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.9269	10.9269	2.1000e-004	2.0000e-004	10.9918

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Bank (with Drive-Through)	19607.5	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0463	1.0463	2.0000e-005	2.0000e-005	1.0526
Convenience Market With Gas Pumps	21624.6	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1540	1.1540	2.0000e-005	2.0000e-005	1.1608
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	100050	5.4000e-004	4.9000e-003	4.1200e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3391	5.3391	1.0000e-004	1.0000e-004	5.3708
Strip Mall	63480	3.4000e-004	3.1100e-003	2.6100e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.3875	3.3875	6.0000e-005	6.0000e-005	3.4077
Total		1.1100e-003	0.0100	8.4300e-003	7.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.9269	10.9269	2.0000e-004	2.0000e-004	10.9918

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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 CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Bank (with Drive-Through)	19607.5	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0463	1.0463	2.0000e-005	2.0000e-005	1.0526
Convenience Market With Gas Pumps	21624.6	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1540	1.1540	2.0000e-005	2.0000e-005	1.1608
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	100050	5.4000e-004	4.9000e-003	4.1200e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3391	5.3391	1.0000e-004	1.0000e-004	5.3708
Strip Mall	63480	3.4000e-004	3.1100e-003	2.6100e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	3.3875	3.3875	6.0000e-005	6.0000e-005	3.4077
Total		1.1100e-003	0.0100	8.4300e-003	7.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.9269	10.9269	2.0000e-004	2.0000e-004	10.9918

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Bank (with Drive-Through)	24897.5	3.2751	3.3000e-004	7.0000e-005	3.3034
Convenience Market With Gas Pumps	42747.8	5.6231	5.6000e-004	1.2000e-004	5.6718
Parking Lot	55968	7.3621	7.4000e-004	1.5000e-004	7.4259
Pharmacy/Drugstore with Drive Thru	197780	26.0163	2.6000e-003	5.4000e-004	26.2418
Strip Mall	125488	16.5069	1.6500e-003	3.4000e-004	16.6500
Total		58.7836	5.8800e-003	1.2200e-003	59.2930

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Bank (with Drive-Through)	24897.5	3.2751	3.3000e-004	7.0000e-005	3.3034
Convenience Market With Gas Pumps	42747.8	5.6231	5.6000e-004	1.2000e-004	5.6718
Parking Lot	55968	7.3621	7.4000e-004	1.5000e-004	7.4259
Pharmacy/Drugstore with Drive Thru	197780	26.0163	2.6000e-003	5.4000e-004	26.2418
Strip Mall	125488	16.5069	1.6500e-003	3.4000e-004	16.6500
Total		58.7836	5.8800e-003	1.2200e-003	59.2930

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003
Unmitigated	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003

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	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003
Total	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003
Total	0.1715	2.0000e-005	1.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4200e-003	3.4200e-003	1.0000e-005	0.0000	3.6600e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.5916	0.0707	1.7000e-003	4.8657
Unmitigated	2.8357	0.0707	1.7100e-003	5.1119

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Bank (with Drive-Through)	0.227832 / 0.139639	0.2987	7.4500e-003	1.8000e-004	0.5385
Convenience Market With Gas Pumps	0.231847 / 0.1421	0.3040	7.5800e-003	1.8000e-004	0.5480
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	1.02149 / 0.626074	1.3394	0.0334	8.1000e-004	2.4145
Strip Mall	0.681467 / 0.417673	0.8935	0.0223	5.4000e-004	1.6108
Total		2.8357	0.0707	1.7100e-003	5.1119

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Bank (with Drive-Through)	0.227832 / 0.0837833	0.2730	7.4400e-003	1.8000e-004	0.5126
Convenience Market With Gas Pumps	0.231847 / 0.0852599	0.2778	7.5800e-003	1.8000e-004	0.5216
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	1.02149 / 0.375644	1.2241	0.0334	8.0000e-004	2.2982
Strip Mall	0.681467 / 0.250604	0.8166	0.0223	5.4000e-004	1.5332
Total		2.5916	0.0707	1.7000e-003	4.8657

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.8095	0.8161	0.0000	34.2124
Unmitigated	13.8095	0.8161	0.0000	34.2124

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Bank (with Drive-Through)	5.36	1.0880	0.0643	0.0000	2.6956
Convenience Market With Gas Pumps	9.41	1.9101	0.1129	0.0000	4.7323
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	43.6	8.8504	0.5230	0.0000	21.9265
Strip Mall	9.66	1.9609	0.1159	0.0000	4.8580
Total		13.8095	0.8161	0.0000	34.2124

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Bank (with Drive-Through)	5.36	1.0880	0.0643	0.0000	2.6956
Convenience Market With Gas Pumps	9.41	1.9101	0.1129	0.0000	4.7323
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	43.6	8.8504	0.5230	0.0000	21.9265
Strip Mall	9.66	1.9609	0.1159	0.0000	4.8580
Total		13.8095	0.8161	0.0000	34.2124

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Annual

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

Serrano Village Adopted Land Use (Commercial)

El Dorado County AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	5.75	1000sqft	0.57	5,750.00	0
Pharmacy/Drugstore with Drive Thru	14.50	1000sqft	1.45	14,500.00	0
Convenience Market With Gas Pumps	3.13	1000sqft	0.09	3,134.00	0
Strip Mall	9.20	1000sqft	0.92	9,200.00	0
Parking Lot	159.00	Space	1.43	63,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Lot acreages calculated based on % of CalEEMod default acreages.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Trip generation rate of Neighborhood Retail from Fehr and Peers memo for Approved Land Use.

Woodstoves -

Energy Use - 5% energy reduction for Title 24 commercial land uses per CEC.

Water Mitigation - Per Project Description.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	PhaseEndDate	6/3/2020	8/22/2018
tblConstructionPhase	PhaseEndDate	2/19/2020	7/25/2018
tblConstructionPhase	PhaseEndDate	9/6/2017	6/28/2017
tblConstructionPhase	PhaseEndDate	3/18/2020	7/26/2017
tblConstructionPhase	PhaseStartDate	3/19/2020	7/26/2018
tblConstructionPhase	PhaseStartDate	9/7/2017	7/27/2017
tblConstructionPhase	PhaseStartDate	6/15/2017	6/1/2017

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblConstructionPhase	PhaseStartDate	2/20/2020	6/29/2017
tblEnergyUse	T24E	0.65	0.62
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24NG	3.22	3.10
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblGrading	AcresOfGrading	10.00	4.46
tblLandUse	LotAcreage	0.13	0.57
tblLandUse	LotAcreage	0.33	1.45
tblLandUse	LotAcreage	0.07	0.09
tblLandUse	LotAcreage	0.21	0.92
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleEF	HHD	0.15	0.12
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	2.26	1.88
tblVehicleEF	HHD	1.75	1.57
tblVehicleEF	HHD	11.48	10.68
tblVehicleEF	HHD	3,002.58	3,067.84
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	HHD	19.72	18.41
tblVehicleEF	HHD	6.62	5.91
tblVehicleEF	HHD	17.70	17.69
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.50
tblVehicleEF	HHD	1.8900e-004	1.7300e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7600e-004	4.5800e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.70	0.57
tblVehicleEF	HHD	1.8900e-004	1.7300e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.41	0.36
tblVehicleEF	HHD	0.14	0.11
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	1.65	1.37
tblVehicleEF	HHD	1.80	1.61
tblVehicleEF	HHD	10.15	9.46
tblVehicleEF	HHD	3,178.66	3,248.50
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	20.35	19.00
tblVehicleEF	HHD	6.33	5.65
tblVehicleEF	HHD	17.62	17.62
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.34	0.30
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5400e-004	4.3700e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	3.11	2.58
tblVehicleEF	HHD	1.72	1.54
tblVehicleEF	HHD	12.46	11.58
tblVehicleEF	HHD	2,759.42	2,818.35
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	18.86	17.60

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	HHD	6.69	5.97
tblVehicleEF	HHD	17.75	17.74
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.40	0.35
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.9200e-004	4.7200e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.76	0.62
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.22	0.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.44	0.38
tblVehicleEF	LDA	5.4280e-003	4.8070e-003
tblVehicleEF	LDA	9.3330e-003	7.9280e-003
tblVehicleEF	LDA	0.70	0.64
tblVehicleEF	LDA	1.82	1.60
tblVehicleEF	LDA	281.32	270.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	2.8180e-003	2.7110e-003
tblVehicleEF	LDA	6.6000e-004	6.3500e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	6.1390e-003	5.4430e-003
tblVehicleEF	LDA	7.3130e-003	6.2200e-003
tblVehicleEF	LDA	0.84	0.77
tblVehicleEF	LDA	1.39	1.22
tblVehicleEF	LDA	306.45	294.78
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.08
tblVehicleEF	LDA	3.0710e-003	2.9540e-003
tblVehicleEF	LDA	6.5200e-004	6.2800e-004
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	5.2410e-003	4.6330e-003
tblVehicleEF	LDA	0.01	9.0330e-003
tblVehicleEF	LDA	0.68	0.62
tblVehicleEF	LDA	2.13	1.87
tblVehicleEF	LDA	275.07	264.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	2.7550e-003	2.6510e-003
tblVehicleEF	LDA	6.6500e-004	6.4000e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.16	0.13
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	2.33	2.03
tblVehicleEF	LDT1	7.03	6.33
tblVehicleEF	LDT1	347.96	339.27
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	0.34	0.31
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.51	0.45
tblVehicleEF	LDT1	3.5120e-003	3.4200e-003
tblVehicleEF	LDT1	9.0300e-004	8.7500e-004
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.56	0.49
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.65	2.33
tblVehicleEF	LDT1	5.34	4.81
tblVehicleEF	LDT1	376.03	366.85
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.30	0.28
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.39	0.35
tblVehicleEF	LDT1	3.7970e-003	3.7000e-003
tblVehicleEF	LDT1	8.7200e-004	8.4800e-004
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.08	0.07

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.43	0.38
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.29	1.99
tblVehicleEF	LDT1	8.28	7.46
tblVehicleEF	LDT1	340.95	332.39
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.37	0.34
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.59	0.51
tblVehicleEF	LDT1	3.4410e-003	3.3500e-003
tblVehicleEF	LDT1	9.2500e-004	8.9500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.64	0.56
tblVehicleEF	LDT2	9.1970e-003	8.2920e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.13	1.03
tblVehicleEF	LDT2	3.25	2.93
tblVehicleEF	LDT2	397.32	386.56
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	0.27	0.24
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.23	0.20
tblVehicleEF	LDT2	3.9840e-003	3.8750e-003
tblVehicleEF	LDT2	9.4900e-004	9.2300e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.25	0.22
tblVehicleEF	LDT2	0.01	9.3100e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.32	1.22
tblVehicleEF	LDT2	2.50	2.25
tblVehicleEF	LDT2	430.28	418.76
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	0.24	0.22
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.18	0.16
tblVehicleEF	LDT2	4.3170e-003	4.2000e-003
tblVehicleEF	LDT2	9.3600e-004	9.1100e-004
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	8.8910e-003	8.0000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.09	1.00
tblVehicleEF	LDT2	3.79	3.42
tblVehicleEF	LDT2	389.09	378.51
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	0.30	0.26
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.26	0.23
tblVehicleEF	LDT2	3.9020e-003	3.7940e-003
tblVehicleEF	LDT2	9.5900e-004	9.3200e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.29	0.25
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.97	1.91
tblVehicleEF	LHD1	3.17	3.09
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.36	3.23
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.31	0.30
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7920e-003	6.7880e-003
tblVehicleEF	LHD1	3.1400e-004	3.1500e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.34	0.33
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	2.02	1.96
tblVehicleEF	LHD1	2.80	2.73
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.17	3.06
tblVehicleEF	LHD1	0.86	0.87
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7930e-003	6.7880e-003
tblVehicleEF	LHD1	3.0700e-004	3.0800e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.94	1.88
tblVehicleEF	LHD1	3.41	3.32
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.40	3.27
tblVehicleEF	LHD1	0.99	1.00
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.21	0.20
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7910e-003	6.7870e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD1	3.1800e-004	3.1900e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.36	0.35
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.8180e-003	6.3140e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.06	1.00
tblVehicleEF	LHD2	1.02	0.96
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.84	2.62
tblVehicleEF	LHD2	0.35	0.34
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5800e-004	1.5900e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2910e-003	5.8310e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.07	1.01
tblVehicleEF	LHD2	0.90	0.85
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.69	2.49
tblVehicleEF	LHD2	0.32	0.31
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5600e-004	1.5700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1730e-003	6.6400e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.05	0.99
tblVehicleEF	LHD2	1.09	1.03
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.86	2.64
tblVehicleEF	LHD2	0.37	0.35
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5900e-004	1.6000e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	MCY	0.43	0.44
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	24.38	23.81
tblVehicleEF	MCY	10.88	10.90
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.23	1.22
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	2.72	2.68
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.63	2.61
tblVehicleEF	MCY	2.1510e-003	2.1490e-003
tblVehicleEF	MCY	7.5700e-004	7.5300e-004
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	3.24	3.21
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.86	2.84
tblVehicleEF	MCY	0.41	0.42
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.96	22.45
tblVehicleEF	MCY	9.25	9.24
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	2.53	2.50
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.03	2.01
tblVehicleEF	MCY	2.1220e-003	2.1210e-003
tblVehicleEF	MCY	7.1100e-004	7.0700e-004
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44
tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	3.03	3.00
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.20	2.19
tblVehicleEF	MCY	0.45	0.46
tblVehicleEF	MCY	0.23	0.22
tblVehicleEF	MCY	26.43	25.78
tblVehicleEF	MCY	12.28	12.31
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.31	1.30
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.88	2.83
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.08	3.05
tblVehicleEF	MCY	2.1880e-003	2.1850e-003
tblVehicleEF	MCY	7.9300e-004	7.9000e-004
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.43	3.39
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.35	3.32
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.74	1.61
tblVehicleEF	MDV	5.66	5.32
tblVehicleEF	MDV	527.31	515.77
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.49	0.46
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.43
tblVehicleEF	MDV	5.2890e-003	5.1720e-003
tblVehicleEF	MDV	1.2730e-003	1.2500e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.51	0.47
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.01	1.87
tblVehicleEF	MDV	4.41	4.14
tblVehicleEF	MDV	570.31	557.87
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.20	0.18
tblVehicleEF	MDV	0.43	0.40
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.34
tblVehicleEF	MDV	5.7230e-003	5.5960e-003
tblVehicleEF	MDV	1.2500e-003	1.2280e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.40	0.37
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.70	1.57
tblVehicleEF	MDV	6.59	6.20
tblVehicleEF	MDV	516.57	505.26
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.25	0.23
tblVehicleEF	MDV	0.53	0.50
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.53	0.49
tblVehicleEF	MDV	5.1810e-003	5.0660e-003
tblVehicleEF	MDV	1.2900e-003	1.2650e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.58	0.54
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.96	4.44
tblVehicleEF	MH	8.21	7.79
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.49	2.42
tblVehicleEF	MH	1.05	1.02
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.20	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.45
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.3600e-004	7.1400e-004
tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.53	0.49
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	5.15	4.65
tblVehicleEF	MH	7.06	6.67
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.30	2.24
tblVehicleEF	MH	0.96	0.94
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.20	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1600e-004	6.9500e-004
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.27	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.44
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.88	4.32
tblVehicleEF	MH	8.97	8.51
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.55	2.48
tblVehicleEF	MH	1.11	1.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.19	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.48
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.4900e-004	7.2600e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.57	0.52
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.09	0.08
tblVehicleEF	MHD	0.48	0.42
tblVehicleEF	MHD	0.97	0.73
tblVehicleEF	MHD	9.64	8.64
tblVehicleEF	MHD	169.60	169.82
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.41	1.21
tblVehicleEF	MHD	3.64	2.86
tblVehicleEF	MHD	12.96	12.99
tblVehicleEF	MHD	6.5330e-003	4.5160e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	6.2500e-003	4.3210e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	1.6280e-003	1.6300e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.7800e-004	6.4200e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.60	0.53

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.34	0.29
tblVehicleEF	MHD	0.99	0.74
tblVehicleEF	MHD	8.48	7.59
tblVehicleEF	MHD	179.79	180.02
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.46	1.25
tblVehicleEF	MHD	3.44	2.71
tblVehicleEF	MHD	12.85	12.89
tblVehicleEF	MHD	5.5070e-003	3.8070e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	5.2690e-003	3.6430e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.50	0.44
tblVehicleEF	MHD	1.7240e-003	1.7260e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5800e-004	6.2500e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.10	0.09
tblVehicleEF	MHD	0.64	0.56
tblVehicleEF	MHD	0.96	0.72
tblVehicleEF	MHD	10.45	9.35
tblVehicleEF	MHD	155.83	156.03
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.35	1.16
tblVehicleEF	MHD	3.67	2.89
tblVehicleEF	MHD	13.04	13.06
tblVehicleEF	MHD	7.9490e-003	5.4950e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	7.6050e-003	5.2580e-003
tblVehicleEF	MHD	0.09	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.58	0.51
tblVehicleEF	MHD	1.4980e-003	1.5000e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9200e-004	6.5500e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.63	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.33	1.15
tblVehicleEF	OBUS	10.07	9.37
tblVehicleEF	OBUS	128.18	130.57
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.85	0.79
tblVehicleEF	OBUS	3.06	2.70
tblVehicleEF	OBUS	3.55	3.48
tblVehicleEF	OBUS	4.7000e-004	3.6800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	4.4900e-004	3.5200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	1.2350e-003	1.2580e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5700e-004	8.4000e-004
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.64	0.60
tblVehicleEF	OBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.37	1.19
tblVehicleEF	OBUS	8.78	8.17
tblVehicleEF	OBUS	134.81	137.34
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.88	0.82
tblVehicleEF	OBUS	2.89	2.56
tblVehicleEF	OBUS	3.42	3.36
tblVehicleEF	OBUS	3.9600e-004	3.1000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	3.7900e-004	2.9700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.54	0.50
tblVehicleEF	OBUS	1.2980e-003	1.3220e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3500e-004	8.1900e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.30	1.13
tblVehicleEF	OBUS	10.91	10.15
tblVehicleEF	OBUS	119.04	121.22
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.81	0.76
tblVehicleEF	OBUS	3.10	2.74
tblVehicleEF	OBUS	3.64	3.57
tblVehicleEF	OBUS	5.7100e-004	4.4800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	5.4700e-004	4.2900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.12	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.62	0.58
tblVehicleEF	OBUS	1.1480e-003	1.1680e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.7100e-004	8.5300e-004
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.15	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.68	0.63
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.16	0.14
tblVehicleEF	SBUS	4.03	3.99
tblVehicleEF	SBUS	1.29	1.06
tblVehicleEF	SBUS	9.04	7.89
tblVehicleEF	SBUS	1,366.48	1,365.44
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	15.54	14.97
tblVehicleEF	SBUS	6.87	6.46
tblVehicleEF	SBUS	17.44	17.40
tblVehicleEF	SBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.41	0.35
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.9700e-004	3.7300e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.68	0.67
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.45	0.38
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.12	0.11

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	SBUS	3.83	3.80
tblVehicleEF	SBUS	1.34	1.09
tblVehicleEF	SBUS	5.80	5.06
tblVehicleEF	SBUS	1,440.58	1,439.59
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	16.04	15.45
tblVehicleEF	SBUS	6.52	6.13
tblVehicleEF	SBUS	17.38	17.35
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.48	0.47
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.32	0.27
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	SBUS	3.4300e-004	3.2600e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.35	0.30
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.18	0.15
tblVehicleEF	SBUS	4.30	4.25
tblVehicleEF	SBUS	1.27	1.04
tblVehicleEF	SBUS	11.01	9.61
tblVehicleEF	SBUS	1,264.16	1,263.03
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	14.86	14.31
tblVehicleEF	SBUS	6.95	6.54
tblVehicleEF	SBUS	17.48	17.43
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.49	0.48
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.46	0.39
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3000e-004	4.0100e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.19	0.18
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.51	0.43
tblVehicleEF	UBUS	0.69	0.65
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.69	7.44
tblVehicleEF	UBUS	17.67	17.48
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.81	5.43

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	UBUS	13.88	13.73
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	0.79	0.76
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.23	1.24
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5840e-003	1.5990e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	1.54	1.46
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.35	1.36
tblVehicleEF	UBUS	0.71	0.67
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.94	7.68
tblVehicleEF	UBUS	12.10	11.97
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.53	5.16
tblVehicleEF	UBUS	13.75	13.60
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	0.83	0.80
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.98	0.99
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.4880e-003	1.5050e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	1.60	1.52
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.08	1.09
tblVehicleEF	UBUS	0.68	0.64
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.53	7.28
tblVehicleEF	UBUS	21.12	20.87

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.90	5.52
tblVehicleEF	UBUS	13.98	13.83
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	0.76	0.73
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.39	1.40
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6430e-003	1.6570e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	1.50	1.43
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.52	1.53
tblVehicleTrips	ST_TR	86.32	58.73
tblVehicleTrips	ST_TR	1,448.33	58.73

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

tblVehicleTrips	ST_TR	96.91	58.73
tblVehicleTrips	ST_TR	42.04	58.73
tblVehicleTrips	SU_TR	31.90	58.73
tblVehicleTrips	SU_TR	1,182.08	58.73
tblVehicleTrips	SU_TR	96.91	58.73
tblVehicleTrips	SU_TR	20.43	58.73
tblVehicleTrips	WD_TR	148.15	58.73
tblVehicleTrips	WD_TR	845.60	58.73
tblVehicleTrips	WD_TR	96.91	58.73
tblVehicleTrips	WD_TR	44.32	58.73

2.0 Emissions Summary

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	3.5832	33.9741	21.8439	0.0363	6.4502	1.8191	8.2292	3.3866	1.7089	5.0233	0.0000	3,601.9814	3,601.9814	0.9396	0.0000	3,619.1851
2018	40.3271	25.7916	20.7962	0.0361	0.5699	1.5253	2.0952	0.1533	1.4341	1.5874	0.0000	3,555.7173	3,555.7173	0.6728	0.0000	3,572.5384
Maximum	40.3271	33.9741	21.8439	0.0363	6.4502	1.8191	8.2292	3.3866	1.7089	5.0233	0.0000	3,601.9814	3,601.9814	0.9396	0.0000	3,619.1851

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	3.5832	33.9741	21.8439	0.0363	6.4502	1.8191	8.2292	3.3866	1.7089	5.0233	0.0000	3,601.9814	3,601.9814	0.9396	0.0000	3,619.1851
2018	40.3271	25.7916	20.7962	0.0361	0.5699	1.5253	2.0952	0.1533	1.4341	1.5874	0.0000	3,555.7173	3,555.7173	0.6728	0.0000	3,572.5384
Maximum	40.3271	33.9741	21.8439	0.0363	6.4502	1.8191	8.2292	3.3866	1.7089	5.0233	0.0000	3,601.9814	3,601.9814	0.9396	0.0000	3,619.1851

[illegible]

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Energy	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
Mobile	3.9589	7.9190	27.1965	0.0596	4.6403	0.0736	4.7139	1.2408	0.0691	1.3100		5,965.4668	5,965.4668	0.2451		5,971.5940
Total	4.9057	7.9742	27.2625	0.0599	4.6403	0.0779	4.7182	1.2408	0.0734	1.3142		6,031.5078	6,031.5078	0.2465	1.2100e-003	6,038.0300

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	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Energy	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
Mobile	3.9589	7.9190	27.1965	0.0596	4.6403	0.0736	4.7139	1.2408	0.0691	1.3100		5,965.4668	5,965.4668	0.2451		5,971.5940
Total	4.9057	7.9742	27.2625	0.0599	4.6403	0.0779	4.7182	1.2408	0.0734	1.3142		6,031.5078	6,031.5078	0.2465	1.2100e-003	6,038.0300

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2017	6/28/2017	5	20	
2	Paving	Paving	6/29/2017	7/26/2017	5	20	
3	Building Construction	Building Construction	7/27/2017	7/25/2018	5	260	Underground and Building Construction
4	Architectural Coating	Architectural Coating	7/26/2018	8/22/2018	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 4.46****Acres of Paving: 1.43****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,876; Non-Residential Outdoor: 16,292; Striped Parking Area: 3,816 (Architectural Coating – sqft)****OffRoad Equipment**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	Hauling Vehicle Class
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	37.00	16.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.2 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2586	0.0000	6.2586	3.3358	0.0000	3.3358			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
Total	3.0705	33.8868	17.1042	0.0297	6.2586	1.7774	8.0360	3.3358	1.6352	4.9710		3,037.9107	3,037.9107	0.9308		3,061.1809

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626
Total	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.2 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2586	0.0000	6.2586	3.3358	0.0000	3.3358			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
Total	3.0705	33.8868	17.1042	0.0297	6.2586	1.7774	8.0360	3.3358	1.6352	4.9710	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626
Total	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.3 Paving - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.1873					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8637	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.3 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.1873					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8637	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1108	2.3598	0.8731	4.0400e-003	0.0973	0.0274	0.1247	0.0280	0.0262	0.0542		421.3031	421.3031	0.0133		421.6362
Worker	0.3575	0.2152	2.7883	5.3300e-003	0.4726	3.8900e-003	0.4765	0.1253	3.6000e-003	0.1289		529.6986	529.6986	0.0217		530.2411
Total	0.4683	2.5749	3.6614	9.3700e-003	0.5699	0.0313	0.6012	0.1533	0.0298	0.1831		951.0017	951.0017	0.0350		951.8773

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1108	2.3598	0.8731	4.0400e-003	0.0973	0.0274	0.1247	0.0280	0.0262	0.0542		421.3031	421.3031	0.0133		421.6362
Worker	0.3575	0.2152	2.7883	5.3300e-003	0.4726	3.8900e-003	0.4765	0.1253	3.6000e-003	0.1289		529.6986	529.6986	0.0217		530.2411
Total	0.4683	2.5749	3.6614	9.3700e-003	0.5699	0.0313	0.6012	0.1533	0.0298	0.1831		951.0017	951.0017	0.0350		951.8773

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0948	2.2133	0.7729	4.0200e-003	0.0973	0.0217	0.1191	0.0280	0.0208	0.0488		419.7061	419.7061	0.0116		419.9959
Worker	0.3215	0.1883	2.4429	5.1800e-003	0.4726	3.7200e-003	0.4763	0.1253	3.4300e-003	0.1288		515.0761	515.0761	0.0191		515.5542
Total	0.4163	2.4015	3.2158	9.2000e-003	0.5699	0.0254	0.5954	0.1533	0.0242	0.1775		934.7822	934.7822	0.0307		935.5502

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0948	2.2133	0.7729	4.0200e-003	0.0973	0.0217	0.1191	0.0280	0.0208	0.0488		419.7061	419.7061	0.0116		419.9959
Worker	0.3215	0.1883	2.4429	5.1800e-003	0.4726	3.7200e-003	0.4763	0.1253	3.4300e-003	0.1288		515.0761	515.0761	0.0191		515.5542
Total	0.4163	2.4015	3.2158	9.2000e-003	0.5699	0.0254	0.5954	0.1533	0.0242	0.1775		934.7822	934.7822	0.0307		935.5502

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.5 Architectural Coating - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.9676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	40.2662	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0356	0.4622	9.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		97.4468	97.4468	3.6200e-003		97.5373
Total	0.0608	0.0356	0.4622	9.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		97.4468	97.4468	3.6200e-003		97.5373

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

3.5 Architectural Coating - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.9676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	40.2662	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0356	0.4622	9.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		97.4468	97.4468	3.6200e-003		97.5373
Total	0.0608	0.0356	0.4622	9.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		97.4468	97.4468	3.6200e-003		97.5373

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9589	7.9190	27.1965	0.0596	4.6403	0.0736	4.7139	1.2408	0.0691	1.3100		5,965.4668	5,965.4668	0.2451		5,971.5940
Unmitigated	3.9589	7.9190	27.1965	0.0596	4.6403	0.0736	4.7139	1.2408	0.0691	1.3100		5,965.4668	5,965.4668	0.2451		5,971.5940

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Bank (with Drive-Through)	337.70	337.70	337.70	299,572	299,572
Convenience Market With Gas Pumps	184.06	184.06	184.06	90,311	90,311
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	851.59	851.59	851.59	936,779	936,779
Strip Mall	540.32	540.32	540.32	862,328	862,328
Total	1,913.66	1,913.66	1,913.66	2,188,990	2,188,990

4.3 Trip Type Information

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

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	Pass-by
Bank (with Drive-Through)	14.70	6.60	6.60	6.60	74.40	19.00	27	26	47
Convenience Market With Gas	14.70	6.60	6.60	0.80	80.20	19.00	14	21	65
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	14.70	6.60	6.60	7.50	73.50	19.00	38	13	49
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Bank (with Drive-Through)	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Pharmacy/Drugstore with Drive Thru	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Convenience Market With Gas Pumps	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Strip Mall	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Parking Lot	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
NaturalGas Unmitigated	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Bank (with Drive-Through)	53.7192	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3199	6.3199	1.2000e-004	1.2000e-004	6.3575
Convenience Market With Gas Pumps	59.2455	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9701	6.9701	1.3000e-004	1.3000e-004	7.0115
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	274.11	2.9600e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2482	32.2482	6.2000e-004	5.9000e-004	32.4398
Strip Mall	173.918	1.8800e-003	0.0171	0.0143	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4609	20.4609	3.9000e-004	3.8000e-004	20.5825
Total		6.0600e-003	0.0550	0.0462	3.2000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2200e-003	66.3913

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

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 CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Bank (with Drive-Through)	0.0537192	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3199	6.3199	1.2000e-004	1.2000e-004	6.3575
Convenience Market With Gas Pumps	0.0592455	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9701	6.9701	1.3000e-004	1.3000e-004	7.0115
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.27411	2.9600e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2482	32.2482	6.2000e-004	5.9000e-004	32.4398
Strip Mall	0.173918	1.8800e-003	0.0171	0.0143	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4609	20.4609	3.9000e-004	3.8000e-004	20.5825
Total		6.0600e-003	0.0550	0.0462	3.2000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2200e-003	66.3913

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Unmitigated	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8700e-003	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Total	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8700e-003	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Total	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

Serrano Village Adopted Land Use (Commercial)**El Dorado County AQMD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	5.75	1000sqft	0.57	5,750.00	0
Pharmacy/Drugstore with Drive Thru	14.50	1000sqft	1.45	14,500.00	0
Convenience Market With Gas Pumps	3.13	1000sqft	0.09	3,134.00	0
Strip Mall	9.20	1000sqft	0.92	9,200.00	0
Parking Lot	159.00	Space	1.43	63,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Lot acreages calculated based on % of CalEEMod default acreages.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Trip generation rate of Neighborhood Retail from Fehr and Peers memo for Approved Land Use.

Woodstoves -

Energy Use - 5% energy reduction for Title 24 commercial land uses per CEC.

Water Mitigation - Per Project Description.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	PhaseEndDate	6/3/2020	8/22/2018
tblConstructionPhase	PhaseEndDate	2/19/2020	7/25/2018
tblConstructionPhase	PhaseEndDate	9/6/2017	6/28/2017
tblConstructionPhase	PhaseEndDate	3/18/2020	7/26/2017
tblConstructionPhase	PhaseStartDate	3/19/2020	7/26/2018
tblConstructionPhase	PhaseStartDate	9/7/2017	7/27/2017
tblConstructionPhase	PhaseStartDate	6/15/2017	6/1/2017

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblConstructionPhase	PhaseStartDate	2/20/2020	6/29/2017
tblEnergyUse	T24E	0.65	0.62
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24E	5.25	4.99
tblEnergyUse	T24NG	3.22	3.10
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblEnergyUse	T24NG	7.25	6.90
tblGrading	AcresOfGrading	10.00	4.46
tblLandUse	LotAcreage	0.13	0.57
tblLandUse	LotAcreage	0.33	1.45
tblLandUse	LotAcreage	0.07	0.09
tblLandUse	LotAcreage	0.21	0.92
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleEF	HHD	0.15	0.12
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	2.26	1.88
tblVehicleEF	HHD	1.75	1.57
tblVehicleEF	HHD	11.48	10.68
tblVehicleEF	HHD	3,002.58	3,067.84
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	HHD	19.72	18.41
tblVehicleEF	HHD	6.62	5.91
tblVehicleEF	HHD	17.70	17.69
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.50
tblVehicleEF	HHD	1.8900e-004	1.7300e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7600e-004	4.5800e-004
tblVehicleEF	HHD	4.0300e-004	3.6400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.70	0.57
tblVehicleEF	HHD	1.8900e-004	1.7300e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3790e-003	3.0060e-003
tblVehicleEF	HHD	0.41	0.36
tblVehicleEF	HHD	0.14	0.11
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	1.65	1.37
tblVehicleEF	HHD	1.80	1.61
tblVehicleEF	HHD	10.15	9.46
tblVehicleEF	HHD	3,178.66	3,248.50
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	20.35	19.00
tblVehicleEF	HHD	6.33	5.65
tblVehicleEF	HHD	17.62	17.62
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.58	0.47
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.34	0.30
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5400e-004	4.3700e-004
tblVehicleEF	HHD	1.2360e-003	1.0960e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	4.8800e-004	4.3500e-004
tblVehicleEF	HHD	0.22	0.18
tblVehicleEF	HHD	3.3920e-003	3.0020e-003
tblVehicleEF	HHD	0.38	0.33
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.15	0.13
tblVehicleEF	HHD	3.11	2.58
tblVehicleEF	HHD	1.72	1.54
tblVehicleEF	HHD	12.46	11.58
tblVehicleEF	HHD	2,759.42	2,818.35
tblVehicleEF	HHD	1,795.84	1,775.65
tblVehicleEF	HHD	28.38	27.96
tblVehicleEF	HHD	9.0130e-003	9.2700e-003
tblVehicleEF	HHD	18.86	17.60

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	HHD	6.69	5.97
tblVehicleEF	HHD	17.75	17.74
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.9600e-004	2.4500e-004
tblVehicleEF	HHD	0.06	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2800e-003	8.2910e-003
tblVehicleEF	HHD	0.05	0.03
tblVehicleEF	HHD	2.7200e-004	2.2600e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.66	0.54
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.19	0.15
tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.40	0.35
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.9200e-004	4.7200e-004
tblVehicleEF	HHD	1.2400e-004	1.1800e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.76	0.62
tblVehicleEF	HHD	5.9000e-005	5.7000e-005
tblVehicleEF	HHD	0.22	0.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	HHD	3.6820e-003	3.2960e-003
tblVehicleEF	HHD	0.44	0.38
tblVehicleEF	LDA	5.4280e-003	4.8070e-003
tblVehicleEF	LDA	9.3330e-003	7.9280e-003
tblVehicleEF	LDA	0.70	0.64
tblVehicleEF	LDA	1.82	1.60
tblVehicleEF	LDA	281.32	270.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	2.8180e-003	2.7110e-003
tblVehicleEF	LDA	6.6000e-004	6.3500e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	6.1390e-003	5.4430e-003
tblVehicleEF	LDA	7.3130e-003	6.2200e-003
tblVehicleEF	LDA	0.84	0.77
tblVehicleEF	LDA	1.39	1.22
tblVehicleEF	LDA	306.45	294.78
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.08
tblVehicleEF	LDA	3.0710e-003	2.9540e-003
tblVehicleEF	LDA	6.5200e-004	6.2800e-004
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	5.2410e-003	4.6330e-003
tblVehicleEF	LDA	0.01	9.0330e-003
tblVehicleEF	LDA	0.68	0.62
tblVehicleEF	LDA	2.13	1.87
tblVehicleEF	LDA	275.07	264.70
tblVehicleEF	LDA	62.81	60.76
tblVehicleEF	LDA	0.50	0.51
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	1.9510e-003	1.9360e-003
tblVehicleEF	LDA	2.4320e-003	2.4160e-003
tblVehicleEF	LDA	1.8010e-003	1.7860e-003
tblVehicleEF	LDA	2.2370e-003	2.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.14	0.12
tblVehicleEF	LDA	2.7550e-003	2.6510e-003
tblVehicleEF	LDA	6.6500e-004	6.4000e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	8.2220e-003	7.5420e-003
tblVehicleEF	LDA	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.16	0.13
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	2.33	2.03
tblVehicleEF	LDT1	7.03	6.33
tblVehicleEF	LDT1	347.96	339.27
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	0.34	0.31
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.51	0.45
tblVehicleEF	LDT1	3.5120e-003	3.4200e-003
tblVehicleEF	LDT1	9.0300e-004	8.7500e-004
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.49	0.46
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT1	0.36	0.35
tblVehicleEF	LDT1	0.56	0.49
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.65	2.33
tblVehicleEF	LDT1	5.34	4.81
tblVehicleEF	LDT1	376.03	366.85
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.30	0.28
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.39	0.35
tblVehicleEF	LDT1	3.7970e-003	3.7000e-003
tblVehicleEF	LDT1	8.7200e-004	8.4800e-004
tblVehicleEF	LDT1	0.62	0.59
tblVehicleEF	LDT1	0.61	0.58
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.08	0.07

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT1	0.34	0.33
tblVehicleEF	LDT1	0.43	0.38
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.29	1.99
tblVehicleEF	LDT1	8.28	7.46
tblVehicleEF	LDT1	340.95	332.39
tblVehicleEF	LDT1	77.68	76.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.37	0.34
tblVehicleEF	LDT1	3.7680e-003	3.4980e-003
tblVehicleEF	LDT1	5.3560e-003	4.9590e-003
tblVehicleEF	LDT1	3.4760e-003	3.2250e-003
tblVehicleEF	LDT1	4.9310e-003	4.5620e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.59	0.51
tblVehicleEF	LDT1	3.4410e-003	3.3500e-003
tblVehicleEF	LDT1	9.2500e-004	8.9500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.52	0.49
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.06

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT1	0.44	0.42
tblVehicleEF	LDT1	0.64	0.56
tblVehicleEF	LDT2	9.1970e-003	8.2920e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.13	1.03
tblVehicleEF	LDT2	3.25	2.93
tblVehicleEF	LDT2	397.32	386.56
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	0.27	0.24
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.23	0.20
tblVehicleEF	LDT2	3.9840e-003	3.8750e-003
tblVehicleEF	LDT2	9.4900e-004	9.2300e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.19	0.18
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.25	0.22
tblVehicleEF	LDT2	0.01	9.3100e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.32	1.22
tblVehicleEF	LDT2	2.50	2.25
tblVehicleEF	LDT2	430.28	418.76
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	0.24	0.22
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.18	0.16
tblVehicleEF	LDT2	4.3170e-003	4.2000e-003
tblVehicleEF	LDT2	9.3600e-004	9.1100e-004
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.23	0.22
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.04	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	8.8910e-003	8.0000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.09	1.00
tblVehicleEF	LDT2	3.79	3.42
tblVehicleEF	LDT2	389.09	378.51
tblVehicleEF	LDT2	89.20	87.22
tblVehicleEF	LDT2	0.23	0.23
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	0.30	0.26
tblVehicleEF	LDT2	1.8690e-003	1.8710e-003
tblVehicleEF	LDT2	2.5600e-003	2.5230e-003
tblVehicleEF	LDT2	1.7190e-003	1.7210e-003
tblVehicleEF	LDT2	2.3550e-003	2.3200e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.26	0.23
tblVehicleEF	LDT2	3.9020e-003	3.7940e-003
tblVehicleEF	LDT2	9.5900e-004	9.3200e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.29	0.25
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.97	1.91
tblVehicleEF	LHD1	3.17	3.09
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.36	3.23
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.31	0.30
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7920e-003	6.7880e-003
tblVehicleEF	LHD1	3.1400e-004	3.1500e-004
tblVehicleEF	LHD1	2.6910e-003	2.7360e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0060e-003	1.0380e-003
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.41	0.43
tblVehicleEF	LHD1	0.34	0.33
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	2.02	1.96
tblVehicleEF	LHD1	2.80	2.73
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.17	3.06
tblVehicleEF	LHD1	0.86	0.87
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7930e-003	6.7880e-003
tblVehicleEF	LHD1	3.0700e-004	3.0800e-004
tblVehicleEF	LHD1	8.0490e-003	8.1420e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4970e-003	2.5500e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.40	0.42
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7310e-003	4.7340e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.94	1.88
tblVehicleEF	LHD1	3.41	3.32
tblVehicleEF	LHD1	9.66	9.63
tblVehicleEF	LHD1	693.63	693.12
tblVehicleEF	LHD1	25.45	25.67
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.40	3.27
tblVehicleEF	LHD1	0.99	1.00
tblVehicleEF	LHD1	1.2250e-003	1.2060e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1050e-003	1.0790e-003
tblVehicleEF	LHD1	1.1720e-003	1.1540e-003
tblVehicleEF	LHD1	2.6010e-003	2.5960e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0180e-003	9.9300e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.21	0.20
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.6000e-005	9.5000e-005
tblVehicleEF	LHD1	6.7910e-003	6.7870e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD1	3.1800e-004	3.1900e-004
tblVehicleEF	LHD1	7.5000e-004	7.8000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.2400e-004	3.4100e-004
tblVehicleEF	LHD1	0.26	0.25
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.36	0.35
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.8180e-003	6.3140e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.06	1.00
tblVehicleEF	LHD2	1.02	0.96
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.84	2.62
tblVehicleEF	LHD2	0.35	0.34
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5800e-004	1.5900e-004
tblVehicleEF	LHD2	6.7800e-004	6.4500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.7100e-004	2.6400e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2910e-003	5.8310e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.07	1.01
tblVehicleEF	LHD2	0.90	0.85
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.69	2.49
tblVehicleEF	LHD2	0.32	0.31
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004
tblVehicleEF	LHD2	0.18	0.17
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5600e-004	1.5700e-004
tblVehicleEF	LHD2	1.9980e-003	1.8900e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6200e-004	6.3800e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4270e-003	2.4090e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1730e-003	6.6400e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.05	0.99
tblVehicleEF	LHD2	1.09	1.03
tblVehicleEF	LHD2	16.08	16.00
tblVehicleEF	LHD2	708.21	705.05
tblVehicleEF	LHD2	13.91	14.10
tblVehicleEF	LHD2	7.6950e-003	7.1510e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.86	2.64
tblVehicleEF	LHD2	0.37	0.35
tblVehicleEF	LHD2	1.6610e-003	1.6440e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.1900e-004	3.0200e-004
tblVehicleEF	LHD2	1.5890e-003	1.5730e-003
tblVehicleEF	LHD2	2.8120e-003	2.8070e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.9300e-004	2.7700e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	1.5500e-004	1.5400e-004
tblVehicleEF	LHD2	6.8430e-003	6.8140e-003
tblVehicleEF	LHD2	1.5900e-004	1.6000e-004
tblVehicleEF	LHD2	1.9900e-004	1.9500e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	MCY	0.43	0.44
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	24.38	23.81
tblVehicleEF	MCY	10.88	10.90
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.23	1.22
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	2.72	2.68
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.63	2.61
tblVehicleEF	MCY	2.1510e-003	2.1490e-003
tblVehicleEF	MCY	7.5700e-004	7.5300e-004
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.53	0.54
tblVehicleEF	MCY	3.24	3.21
tblVehicleEF	MCY	1.19	1.18
tblVehicleEF	MCY	2.86	2.84
tblVehicleEF	MCY	0.41	0.42
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.96	22.45
tblVehicleEF	MCY	9.25	9.24
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.04	1.03
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	2.53	2.50
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.03	2.01
tblVehicleEF	MCY	2.1220e-003	2.1210e-003
tblVehicleEF	MCY	7.1100e-004	7.0700e-004
tblVehicleEF	MCY	3.81	3.83
tblVehicleEF	MCY	1.43	1.44
tblVehicleEF	MCY	1.62	1.63
tblVehicleEF	MCY	3.03	3.00
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	2.20	2.19
tblVehicleEF	MCY	0.45	0.46
tblVehicleEF	MCY	0.23	0.22
tblVehicleEF	MCY	26.43	25.78
tblVehicleEF	MCY	12.28	12.31
tblVehicleEF	MCY	167.58	168.40
tblVehicleEF	MCY	50.07	49.73
tblVehicleEF	MCY	5.8140e-003	5.6380e-003
tblVehicleEF	MCY	1.31	1.30
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0100e-003	2.0150e-003
tblVehicleEF	MCY	4.7900e-003	4.5650e-003
tblVehicleEF	MCY	1.8950e-003	1.8970e-003
tblVehicleEF	MCY	4.5460e-003	4.3290e-003
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.88	2.83
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.08	3.05
tblVehicleEF	MCY	2.1880e-003	2.1850e-003
tblVehicleEF	MCY	7.9300e-004	7.9000e-004
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.43	3.39
tblVehicleEF	MCY	1.37	1.36
tblVehicleEF	MCY	3.35	3.32
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.74	1.61
tblVehicleEF	MDV	5.66	5.32
tblVehicleEF	MDV	527.31	515.77
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.49	0.46
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.43
tblVehicleEF	MDV	5.2890e-003	5.1720e-003
tblVehicleEF	MDV	1.2730e-003	1.2500e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.51	0.47
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.01	1.87
tblVehicleEF	MDV	4.41	4.14
tblVehicleEF	MDV	570.31	557.87
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.20	0.18
tblVehicleEF	MDV	0.43	0.40
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.34
tblVehicleEF	MDV	5.7230e-003	5.5960e-003
tblVehicleEF	MDV	1.2500e-003	1.2280e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.40	0.37
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.70	1.57
tblVehicleEF	MDV	6.59	6.20
tblVehicleEF	MDV	516.57	505.26
tblVehicleEF	MDV	117.12	115.38
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.25	0.23
tblVehicleEF	MDV	0.53	0.50
tblVehicleEF	MDV	1.9800e-003	1.9660e-003
tblVehicleEF	MDV	3.1300e-003	3.0180e-003
tblVehicleEF	MDV	1.8260e-003	1.8130e-003
tblVehicleEF	MDV	2.8870e-003	2.7810e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.53	0.49
tblVehicleEF	MDV	5.1810e-003	5.0660e-003
tblVehicleEF	MDV	1.2900e-003	1.2650e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.58	0.54
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.96	4.44
tblVehicleEF	MH	8.21	7.79
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.49	2.42
tblVehicleEF	MH	1.05	1.02
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.20	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.45
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.3600e-004	7.1400e-004
tblVehicleEF	MH	1.16	1.13
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.31	0.30
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.53	0.49
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	5.15	4.65
tblVehicleEF	MH	7.06	6.67
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.30	2.24
tblVehicleEF	MH	0.96	0.94
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.20	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1600e-004	6.9500e-004
tblVehicleEF	MH	3.47	3.36
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.73	0.72
tblVehicleEF	MH	0.27	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.44
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.88	4.32
tblVehicleEF	MH	8.97	8.51
tblVehicleEF	MH	1,242.43	1,239.77
tblVehicleEF	MH	59.19	57.81
tblVehicleEF	MH	1.9860e-003	1.8010e-003
tblVehicleEF	MH	2.55	2.48
tblVehicleEF	MH	1.11	1.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MH	1.5560e-003	1.3650e-003
tblVehicleEF	MH	3.2640e-003	3.2660e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.4410e-003	1.2600e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.19	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.48
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.4900e-004	7.2600e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.26	0.24
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.57	0.52
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.09	0.08
tblVehicleEF	MHD	0.48	0.42
tblVehicleEF	MHD	0.97	0.73
tblVehicleEF	MHD	9.64	8.64
tblVehicleEF	MHD	169.60	169.82
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.41	1.21
tblVehicleEF	MHD	3.64	2.86
tblVehicleEF	MHD	12.96	12.99
tblVehicleEF	MHD	6.5330e-003	4.5160e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	6.2500e-003	4.3210e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	1.6280e-003	1.6300e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.7800e-004	6.4200e-004
tblVehicleEF	MHD	1.3580e-003	1.1850e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	5.1600e-004	4.5700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.60	0.53

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.34	0.29
tblVehicleEF	MHD	0.99	0.74
tblVehicleEF	MHD	8.48	7.59
tblVehicleEF	MHD	179.79	180.02
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.46	1.25
tblVehicleEF	MHD	3.44	2.71
tblVehicleEF	MHD	12.85	12.89
tblVehicleEF	MHD	5.5070e-003	3.8070e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	5.2690e-003	3.6430e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.50	0.44
tblVehicleEF	MHD	1.7240e-003	1.7260e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5800e-004	6.2500e-004
tblVehicleEF	MHD	4.1490e-003	3.5920e-003
tblVehicleEF	MHD	0.07	0.06
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	1.3450e-003	1.1720e-003
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.55	0.48
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.10	0.09
tblVehicleEF	MHD	0.64	0.56
tblVehicleEF	MHD	0.96	0.72
tblVehicleEF	MHD	10.45	9.35
tblVehicleEF	MHD	155.83	156.03
tblVehicleEF	MHD	1,221.10	1,216.71
tblVehicleEF	MHD	50.95	49.18
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.35	1.16
tblVehicleEF	MHD	3.67	2.89
tblVehicleEF	MHD	13.04	13.06
tblVehicleEF	MHD	7.9490e-003	5.4950e-003
tblVehicleEF	MHD	0.09	0.05
tblVehicleEF	MHD	1.2020e-003	9.9000e-004
tblVehicleEF	MHD	7.6050e-003	5.2580e-003
tblVehicleEF	MHD	0.09	0.05

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	MHD	1.1090e-003	9.1100e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.22	0.15
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.58	0.51
tblVehicleEF	MHD	1.4980e-003	1.5000e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9200e-004	6.5500e-004
tblVehicleEF	MHD	3.5300e-004	3.1900e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	1.4900e-004	1.3700e-004
tblVehicleEF	MHD	0.26	0.17
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.63	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.33	1.15
tblVehicleEF	OBUS	10.07	9.37
tblVehicleEF	OBUS	128.18	130.57
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.85	0.79
tblVehicleEF	OBUS	3.06	2.70
tblVehicleEF	OBUS	3.55	3.48
tblVehicleEF	OBUS	4.7000e-004	3.6800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	4.4900e-004	3.5200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	1.2350e-003	1.2580e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5700e-004	8.4000e-004
tblVehicleEF	OBUS	1.6500e-003	1.6240e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4700e-004	5.4100e-004
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.64	0.60
tblVehicleEF	OBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.37	1.19
tblVehicleEF	OBUS	8.78	8.17
tblVehicleEF	OBUS	134.81	137.34
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.88	0.82
tblVehicleEF	OBUS	2.89	2.56
tblVehicleEF	OBUS	3.42	3.36
tblVehicleEF	OBUS	3.9600e-004	3.1000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	3.7900e-004	2.9700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.54	0.50
tblVehicleEF	OBUS	1.2980e-003	1.3220e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.3500e-004	8.1900e-004

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	OBUS	4.7580e-003	4.6680e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2490e-003	1.2280e-003
tblVehicleEF	OBUS	0.16	0.14
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.59	0.55
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.30	1.13
tblVehicleEF	OBUS	10.91	10.15
tblVehicleEF	OBUS	119.04	121.22
tblVehicleEF	OBUS	1,364.87	1,357.92
tblVehicleEF	OBUS	68.07	67.57
tblVehicleEF	OBUS	1.5650e-003	1.5800e-003
tblVehicleEF	OBUS	0.81	0.76
tblVehicleEF	OBUS	3.10	2.74
tblVehicleEF	OBUS	3.64	3.57
tblVehicleEF	OBUS	5.7100e-004	4.4800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4300e-004	9.4500e-004
tblVehicleEF	OBUS	5.4700e-004	4.2900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.12	0.11
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.62	0.58
tblVehicleEF	OBUS	1.1480e-003	1.1680e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.7100e-004	8.5300e-004
tblVehicleEF	OBUS	5.6600e-004	5.6300e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.15	0.14
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.68	0.63
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.16	0.14
tblVehicleEF	SBUS	4.03	3.99
tblVehicleEF	SBUS	1.29	1.06
tblVehicleEF	SBUS	9.04	7.89
tblVehicleEF	SBUS	1,366.48	1,365.44
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	15.54	14.97
tblVehicleEF	SBUS	6.87	6.46
tblVehicleEF	SBUS	17.44	17.40
tblVehicleEF	SBUS	0.02	0.02

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.41	0.35
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.9700e-004	3.7300e-004
tblVehicleEF	SBUS	6.9830e-003	5.4970e-003
tblVehicleEF	SBUS	0.06	0.05
tblVehicleEF	SBUS	0.68	0.67
tblVehicleEF	SBUS	1.5610e-003	1.2540e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.45	0.38
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.12	0.11

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	SBUS	3.83	3.80
tblVehicleEF	SBUS	1.34	1.09
tblVehicleEF	SBUS	5.80	5.06
tblVehicleEF	SBUS	1,440.58	1,439.59
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	16.04	15.45
tblVehicleEF	SBUS	6.52	6.13
tblVehicleEF	SBUS	17.38	17.35
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.48	0.47
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.32	0.27
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	SBUS	3.4300e-004	3.2600e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.06
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	4.0430e-003	3.2320e-003
tblVehicleEF	SBUS	0.20	0.18
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.35	0.30
tblVehicleEF	SBUS	0.85	0.86
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.18	0.15
tblVehicleEF	SBUS	4.30	4.25
tblVehicleEF	SBUS	1.27	1.04
tblVehicleEF	SBUS	11.01	9.61
tblVehicleEF	SBUS	1,264.16	1,263.03
tblVehicleEF	SBUS	1,218.31	1,216.40
tblVehicleEF	SBUS	24.20	23.78
tblVehicleEF	SBUS	8.4300e-004	8.2600e-004
tblVehicleEF	SBUS	14.86	14.31
tblVehicleEF	SBUS	6.95	6.54
tblVehicleEF	SBUS	17.48	17.43
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	8.9700e-004	7.2800e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8690e-003	2.8720e-003

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	8.2500e-004	6.7000e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.49	0.48
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.16	0.15
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.46	0.39
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.3000e-004	4.0100e-004
tblVehicleEF	SBUS	1.7100e-003	1.3940e-003
tblVehicleEF	SBUS	0.07	0.05
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	5.4100e-004	4.4900e-004
tblVehicleEF	SBUS	0.19	0.18
tblVehicleEF	SBUS	0.06	0.04
tblVehicleEF	SBUS	0.51	0.43
tblVehicleEF	UBUS	0.69	0.65
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.69	7.44
tblVehicleEF	UBUS	17.67	17.48
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.81	5.43

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	UBUS	13.88	13.73
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	0.79	0.76
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.23	1.24
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5840e-003	1.5990e-003
tblVehicleEF	UBUS	6.3600e-003	6.3680e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3050e-003	2.3520e-003
tblVehicleEF	UBUS	1.54	1.46
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.35	1.36
tblVehicleEF	UBUS	0.71	0.67
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.94	7.68
tblVehicleEF	UBUS	12.10	11.97
tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.53	5.16
tblVehicleEF	UBUS	13.75	13.60
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	0.83	0.80
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.98	0.99
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.4880e-003	1.5050e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	5.5880e-003	5.6390e-003
tblVehicleEF	UBUS	1.60	1.52
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.08	1.09
tblVehicleEF	UBUS	0.68	0.64
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.53	7.28
tblVehicleEF	UBUS	21.12	20.87

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleEF	UBUS	2,052.27	2,039.69
tblVehicleEF	UBUS	126.79	128.62
tblVehicleEF	UBUS	1.2500e-003	1.2070e-003
tblVehicleEF	UBUS	5.90	5.52
tblVehicleEF	UBUS	13.98	13.83
tblVehicleEF	UBUS	0.56	0.55
tblVehicleEF	UBUS	0.09	0.08
tblVehicleEF	UBUS	1.3150e-003	1.3610e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2090e-003	1.2510e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	0.76	0.73
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.39	1.40
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6430e-003	1.6570e-003
tblVehicleEF	UBUS	1.8050e-003	1.8490e-003
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	7.9900e-004	8.3500e-004
tblVehicleEF	UBUS	1.50	1.43
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.52	1.53
tblVehicleTrips	ST_TR	86.32	58.73
tblVehicleTrips	ST_TR	1,448.33	58.73

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

tblVehicleTrips	ST_TR	96.91	58.73
tblVehicleTrips	ST_TR	42.04	58.73
tblVehicleTrips	SU_TR	31.90	58.73
tblVehicleTrips	SU_TR	1,182.08	58.73
tblVehicleTrips	SU_TR	96.91	58.73
tblVehicleTrips	SU_TR	20.43	58.73
tblVehicleTrips	WD_TR	148.15	58.73
tblVehicleTrips	WD_TR	845.60	58.73
tblVehicleTrips	WD_TR	96.91	58.73
tblVehicleTrips	WD_TR	44.32	58.73

2.0 Emissions Summary

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	3.6136	33.9948	21.7528	0.0357	6.4502	1.8196	8.2292	3.3866	1.7093	5.0233	0.0000	3,543.2916	3,543.2916	0.9390	0.0000	3,560.4865
2018	40.3312	25.8900	20.6948	0.0355	0.5699	1.5257	2.0957	0.1533	1.4345	1.5878	0.0000	3,498.1375	3,498.1375	0.6724	0.0000	3,514.9464
Maximum	40.3312	33.9948	21.7528	0.0357	6.4502	1.8196	8.2292	3.3866	1.7093	5.0233	0.0000	3,543.2916	3,543.2916	0.9390	0.0000	3,560.4865

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	3.6136	33.9948	21.7528	0.0357	6.4502	1.8196	8.2292	3.3866	1.7093	5.0233	0.0000	3,543.2916	3,543.2916	0.9390	0.0000	3,560.4865
2018	40.3312	25.8900	20.6948	0.0355	0.5699	1.5257	2.0957	0.1533	1.4345	1.5878	0.0000	3,498.1375	3,498.1375	0.6724	0.0000	3,514.9464
Maximum	40.3312	33.9948	21.7528	0.0357	6.4502	1.8196	8.2292	3.3866	1.7093	5.0233	0.0000	3,543.2916	3,543.2916	0.9390	0.0000	3,560.4865

[illegible]

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Energy	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
Mobile	3.1312	8.5597	29.7173	0.0550	4.6403	0.0742	4.7145	1.2408	0.0697	1.3105		5,504.6451	5,504.6451	0.2571		5,511.0717
Total	4.0779	8.6149	29.7832	0.0554	4.6403	0.0784	4.7187	1.2408	0.0739	1.3148		5,570.6861	5,570.6861	0.2584	1.2100e-003	5,577.5077

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	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Energy	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
Mobile	3.1312	8.5597	29.7173	0.0550	4.6403	0.0742	4.7145	1.2408	0.0697	1.3105		5,504.6451	5,504.6451	0.2571		5,511.0717
Total	4.0779	8.6149	29.7832	0.0554	4.6403	0.0784	4.7187	1.2408	0.0739	1.3148		5,570.6861	5,570.6861	0.2584	1.2100e-003	5,577.5077

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2017	6/28/2017	5	20	
2	Paving	Paving	6/29/2017	7/26/2017	5	20	
3	Building Construction	Building Construction	7/27/2017	7/25/2018	5	260	Underground and Building Construction
4	Architectural Coating	Architectural Coating	7/26/2018	8/22/2018	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 4.46****Acres of Paving: 1.43****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,876; Non-Residential Outdoor: 16,292; Striped Parking Area: 3,816 (Architectural Coating – sqft)****OffRoad Equipment**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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	Hauling Vehicle Class
Paving	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	37.00	16.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.2 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2586	0.0000	6.2586	3.3358	0.0000	3.3358			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
Total	3.0705	33.8868	17.1042	0.0297	6.2586	1.7774	8.0360	3.3358	1.6352	4.9710		3,037.9107	3,037.9107	0.9308		3,061.1809

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308
Total	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.2 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2586	0.0000	6.2586	3.3358	0.0000	3.3358			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
Total	3.0705	33.8868	17.1042	0.0297	6.2586	1.7774	8.0360	3.3358	1.6352	4.9710	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308
Total	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.3 Paving - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.1873					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8637	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376		1,901.7766	1,901.7766	0.5674		1,915.9604

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.3 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6763	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604
Paving	0.1873					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8637	17.0389	12.6556	0.0189		1.0172	1.0172		0.9376	0.9376	0.0000	1,901.7766	1,901.7766	0.5674		1,915.9604

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1161	2.4211	0.9913	3.9700e-003	0.0973	0.0279	0.1252	0.0280	0.0267	0.0546		413.7147	413.7147	0.0145		414.0761
Worker	0.3825	0.2664	2.5791	4.8200e-003	0.4726	3.8900e-003	0.4765	0.1253	3.6000e-003	0.1289		478.5972	478.5972	0.0202		479.1026
Total	0.4987	2.6874	3.5703	8.7900e-003	0.5699	0.0318	0.6017	0.1533	0.0303	0.1836		892.3119	892.3119	0.0347		893.1786

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1161	2.4211	0.9913	3.9700e-003	0.0973	0.0279	0.1252	0.0280	0.0267	0.0546		413.7147	413.7147	0.0145		414.0761
Worker	0.3825	0.2664	2.5791	4.8200e-003	0.4726	3.8900e-003	0.4765	0.1253	3.6000e-003	0.1289		478.5972	478.5972	0.0202		479.1026
Total	0.4987	2.6874	3.5703	8.7900e-003	0.5699	0.0318	0.6017	0.1533	0.0303	0.1836		892.3119	892.3119	0.0347		893.1786

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0994	2.2670	0.8778	3.9500e-003	0.0973	0.0221	0.1195	0.0280	0.0212	0.0492		411.9308	411.9308	0.0126		412.2453
Worker	0.3434	0.2330	2.2366	4.6800e-003	0.4726	3.7200e-003	0.4763	0.1253	3.4300e-003	0.1288		465.2715	465.2715	0.0177		465.7129
Total	0.4428	2.5000	3.1143	8.6300e-003	0.5699	0.0258	0.5958	0.1533	0.0246	0.1779		877.2023	877.2023	0.0302		877.9581

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0994	2.2670	0.8778	3.9500e-003	0.0973	0.0221	0.1195	0.0280	0.0212	0.0492		411.9308	411.9308	0.0126		412.2453
Worker	0.3434	0.2330	2.2366	4.6800e-003	0.4726	3.7200e-003	0.4763	0.1253	3.4300e-003	0.1288		465.2715	465.2715	0.0177		465.7129
Total	0.4428	2.5000	3.1143	8.6300e-003	0.5699	0.0258	0.5958	0.1533	0.0246	0.1779		877.2023	877.2023	0.0302		877.9581

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.5 Architectural Coating - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.9676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	40.2662	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0650	0.0441	0.4231	8.9000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.0243	88.0243	3.3400e-003		88.1078
Total	0.0650	0.0441	0.4231	8.9000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.0243	88.0243	3.3400e-003		88.1078

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

3.5 Architectural Coating - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.9676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	40.2662	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0650	0.0441	0.4231	8.9000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.0243	88.0243	3.3400e-003		88.1078
Total	0.0650	0.0441	0.4231	8.9000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.0243	88.0243	3.3400e-003		88.1078

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1312	8.5597	29.7173	0.0550	4.6403	0.0742	4.7145	1.2408	0.0697	1.3105		5,504.6451	5,504.6451	0.2571		5,511.0717
Unmitigated	3.1312	8.5597	29.7173	0.0550	4.6403	0.0742	4.7145	1.2408	0.0697	1.3105		5,504.6451	5,504.6451	0.2571		5,511.0717

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Bank (with Drive-Through)	337.70	337.70	337.70	299,572	299,572
Convenience Market With Gas Pumps	184.06	184.06	184.06	90,311	90,311
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	851.59	851.59	851.59	936,779	936,779
Strip Mall	540.32	540.32	540.32	862,328	862,328
Total	1,913.66	1,913.66	1,913.66	2,188,990	2,188,990

4.3 Trip Type Information

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

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	Pass-by
Bank (with Drive-Through)	14.70	6.60	6.60	6.60	74.40	19.00	27	26	47
Convenience Market With Gas	14.70	6.60	6.60	0.80	80.20	19.00	14	21	65
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	14.70	6.60	6.60	7.50	73.50	19.00	38	13	49
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Bank (with Drive-Through)	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Pharmacy/Drugstore with Drive Thru	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Convenience Market With Gas Pumps	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Strip Mall	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986
Parking Lot	0.503470	0.043416	0.226017	0.144790	0.038824	0.007695	0.015319	0.009013	0.001565	0.001250	0.005814	0.000843	0.001986

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913
NaturalGas Unmitigated	6.0500e-003	0.0550	0.0462	3.3000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2100e-003	66.3913

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Bank (with Drive-Through)	53.7192	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3199	6.3199	1.2000e-004	1.2000e-004	6.3575
Convenience Market With Gas Pumps	59.2455	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9701	6.9701	1.3000e-004	1.3000e-004	7.0115
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	274.11	2.9600e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2482	32.2482	6.2000e-004	5.9000e-004	32.4398
Strip Mall	173.918	1.8800e-003	0.0171	0.0143	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4609	20.4609	3.9000e-004	3.8000e-004	20.5825
Total		6.0600e-003	0.0550	0.0462	3.2000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2200e-003	66.3913

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

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 CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Bank (with Drive-Through)	0.0537192	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3199	6.3199	1.2000e-004	1.2000e-004	6.3575
Convenience Market With Gas Pumps	0.0592455	6.4000e-004	5.8100e-003	4.8800e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9701	6.9701	1.3000e-004	1.3000e-004	7.0115
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.27411	2.9600e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2482	32.2482	6.2000e-004	5.9000e-004	32.4398
Strip Mall	0.173918	1.8800e-003	0.0171	0.0143	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		20.4609	20.4609	3.9000e-004	3.8000e-004	20.5825
Total		6.0600e-003	0.0550	0.0462	3.2000e-004		4.1800e-003	4.1800e-003		4.1800e-003	4.1800e-003		65.9991	65.9991	1.2600e-003	1.2200e-003	66.3913

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Unmitigated	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8700e-003	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Total	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8700e-003	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448
Total	0.9407	1.8000e-004	0.0198	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0419	0.0419	1.1000e-004		0.0448

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Serrano Village Adopted Land Use (Commercial) - El Dorado County AQMD Air District, Winter

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

Serrano Village Adopted Land Use (Residential)
El Dorado County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	8.13	320,601.60	0
Single Family Housing	204.00	Dwelling Unit	24.02	408,000.00	624

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description and 3.06 people per DU.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Fleet Mix - No trips generated by passive park area.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	55.00
tblConstructionPhase	NumDays	500.00	640.00
tblConstructionPhase	NumDays	45.00	60.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	2/19/2020	3/18/2020
tblConstructionPhase	PhaseEndDate	3/18/2020	10/4/2017
tblConstructionPhase	PhaseStartDate	9/7/2017	10/5/2017
tblConstructionPhase	PhaseStartDate	2/20/2020	9/7/2017
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	112.20	204.00
tblFireplaces	NumberNoFireplace	20.40	0.00
tblFireplaces	NumberWood	71.40	0.00
tblGrading	AcresOfGrading	150.00	36.61

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

tblLandUse	LandUseSquareFeet	367,200.00	408,000.00
tblLandUse	LotAcreage	7.36	8.13
tblLandUse	LotAcreage	66.23	24.02
tblLandUse	Population	583.00	624.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	10.20	0.00
tblWoodstoves	NumberNoncatalytic	10.20	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

2.1 Overall Construction**Unmitigated Construction**

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3966	3.7255	2.6313	4.6600e-003	0.3931	0.1783	0.5714	0.1787	0.1653	0.3439	0.0000	427.7686	427.7686	0.0886	0.0000	429.9836
2018	0.6320	4.5790	4.4239	9.4300e-003	0.3890	0.2117	0.6007	0.1048	0.1992	0.3039	0.0000	854.5695	854.5695	0.0945	0.0000	856.9312
2019	0.5630	4.1723	4.1257	9.2700e-003	0.3890	0.1813	0.5703	0.1048	0.1706	0.2754	0.0000	837.3778	837.3778	0.0909	0.0000	839.6502
2020	6.5058	0.8643	0.9374	2.1900e-003	0.0976	0.0364	0.1340	0.0263	0.0344	0.0606	0.0000	196.0077	196.0077	0.0197	0.0000	196.5008
Maximum	6.5058	4.5790	4.4239	9.4300e-003	0.3931	0.2117	0.6007	0.1787	0.1992	0.3439	0.0000	854.5695	854.5695	0.0945	0.0000	856.9312

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

2.1 Overall Construction**Mitigated Construction**

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3966	3.7255	2.6313	4.6600e-003	0.3931	0.1783	0.5714	0.1787	0.1653	0.3439	0.0000	427.7682	427.7682	0.0886	0.0000	429.9832
2018	0.6320	4.5790	4.4239	9.4300e-003	0.3890	0.2117	0.6007	0.1048	0.1992	0.3039	0.0000	854.5691	854.5691	0.0945	0.0000	856.9309
2019	0.5630	4.1723	4.1257	9.2700e-003	0.3890	0.1813	0.5703	0.1048	0.1706	0.2754	0.0000	837.3774	837.3774	0.0909	0.0000	839.6498
2020	6.5058	0.8643	0.9374	2.1900e-003	0.0976	0.0364	0.1340	0.0263	0.0344	0.0606	0.0000	196.0076	196.0076	0.0197	0.0000	196.5007
Maximum	6.5058	4.5790	4.4239	9.4300e-003	0.3931	0.2117	0.6007	0.1787	0.1992	0.3439	0.0000	854.5691	854.5691	0.0945	0.0000	856.9309

	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	N2O	CO2e
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	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2017	8-31-2017	2.3489	2.3489
2	9-1-2017	11-30-2017	1.3047	1.3047
3	12-1-2017	2-28-2018	1.3470	1.3470
4	3-1-2018	5-31-2018	1.3086	1.3086
5	6-1-2018	8-31-2018	1.3015	1.3015
6	9-1-2018	11-30-2018	1.3014	1.3014
7	12-1-2018	2-28-2019	1.2164	1.2164
8	3-1-2019	5-31-2019	1.1894	1.1894

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

9	6-1-2019	8-31-2019	1.1831	1.1831
10	9-1-2019	11-30-2019	1.1827	1.1827
11	12-1-2019	2-29-2020	1.1158	1.1158
12	3-1-2020	5-31-2020	6.4108	6.4108
13	6-1-2020	8-31-2020	0.2512	0.2512
		Highest	6.4108	6.4108

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701
Energy	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	364.1602	364.1602	0.0266	7.2500e-003	366.9843
Mobile	0.8370	3.4753	11.2372	0.0313	2.6540	0.0382	2.6922	0.7120	0.0360	0.7480	0.0000	2,850.0318	2,850.0318	0.1003	0.0000	2,852.5392
Waste						0.0000	0.0000		0.0000	0.0000	31.7945	0.0000	31.7945	1.8790	0.0000	78.7695
Water						0.0000	0.0000		0.0000	0.0000	4.2168	17.3557	21.5724	0.4348	0.0106	35.5978
Total	3.1465	3.7368	12.8608	0.0330	2.6540	0.0663	2.7203	0.7120	0.0641	0.7761	36.0112	3,394.7026	3,430.7138	2.4462	0.0208	3,498.0609

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701
Energy	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	364.1602	364.1602	0.0266	7.2500e-003	366.9843
Mobile	0.8370	3.4753	11.2372	0.0313	2.6540	0.0382	2.6922	0.7120	0.0360	0.7480	0.0000	2,850.0318	2,850.0318	0.1003	0.0000	2,852.5392
Waste						0.0000	0.0000		0.0000	0.0000	31.7945	0.0000	31.7945	1.8790	0.0000	78.7695
Water						0.0000	0.0000		0.0000	0.0000	4.2168	14.1976	18.4143	0.4345	0.0105	32.4124
Total	3.1465	3.7368	12.8608	0.0330	2.6540	0.0663	2.7203	0.7120	0.0641	0.7761	36.0112	3,391.5445	3,427.5558	2.4459	0.0207	3,494.8755

	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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.01	0.34	0.09

3.0 Construction Detail**Construction Phase**

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	9/7/2017	10/4/2017	5	20	
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	10/5/2017	3/18/2020	5	640	Underground and Building Construction
4	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.61

Residential Indoor: 826,200; Residential Outdoor: 275,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

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	Hauling Vehicle Class
Architectural Coating	1	42.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	74.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.1 Mitigation Measures Construction**3.2 Paving - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.2072	0.1503	2.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	21.1433	21.1433	6.4800e-003	0.0000	21.3052
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.2072	0.1503	2.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	21.1433	21.1433	6.4800e-003	0.0000	21.3052

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995
Total	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.2 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.2072	0.1503	2.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	21.1432	21.1432	6.4800e-003	0.0000	21.3052
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.2072	0.1503	2.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	21.1432	21.1432	6.4800e-003	0.0000	21.3052

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995
Total	1.3800e-003	1.0000e-003	0.0103	2.0000e-005	1.8400e-003	2.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7977	1.7977	7.0000e-005	0.0000	1.7995

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2001	0.0000	0.2001	0.1014	0.0000	0.1014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1725	2.0382	1.1635	1.8600e-003		0.0922	0.0922		0.0848	0.0848	0.0000	172.6795	172.6795	0.0529	0.0000	174.0022
Total	0.1725	2.0382	1.1635	1.8600e-003	0.2001	0.0922	0.2923	0.1014	0.0848	0.1862	0.0000	172.6795	172.6795	0.0529	0.0000	174.0022

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981
Total	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2001	0.0000	0.2001	0.1014	0.0000	0.1014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1725	2.0382	1.1635	1.8600e-003		0.0922	0.0922		0.0848	0.0848	0.0000	172.6793	172.6793	0.0529	0.0000	174.0020
Total	0.1725	2.0382	1.1635	1.8600e-003	0.2001	0.0922	0.2923	0.1014	0.0848	0.1862	0.0000	172.6793	172.6793	0.0529	0.0000	174.0020

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981
Total	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.8232	0.5637	8.3000e-004		0.0554	0.0554		0.0521	0.0521	0.0000	74.5528	74.5528	0.0184	0.0000	75.0120
Total	0.0966	0.8232	0.5637	8.3000e-004		0.0554	0.0554		0.0521	0.0521	0.0000	74.5528	74.5528	0.0184	0.0000	75.0120

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.3471	0.1341	5.7000e-004	0.0135	3.9500e-003	0.0174	3.8900e-003	3.7800e-003	7.6800e-003	0.0000	54.3830	54.3830	1.8100e-003	0.0000	54.4283
Worker	0.0594	0.0429	0.4445	8.6000e-004	0.0789	6.8000e-004	0.0796	0.0210	6.3000e-004	0.0216	0.0000	77.2758	77.2758	3.2100e-003	0.0000	77.3560
Total	0.0756	0.3900	0.5786	1.4300e-003	0.0924	4.6300e-003	0.0970	0.0249	4.4100e-003	0.0293	0.0000	131.6589	131.6589	5.0200e-003	0.0000	131.7842

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.8232	0.5637	8.3000e-004		0.0554	0.0554		0.0521	0.0521	0.0000	74.5527	74.5527	0.0184	0.0000	75.0119
Total	0.0966	0.8232	0.5637	8.3000e-004		0.0554	0.0554		0.0521	0.0521	0.0000	74.5527	74.5527	0.0184	0.0000	75.0119

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.3471	0.1341	5.7000e-004	0.0135	3.9500e-003	0.0174	3.8900e-003	3.7800e-003	7.6800e-003	0.0000	54.3830	54.3830	1.8100e-003	0.0000	54.4283
Worker	0.0594	0.0429	0.4445	8.6000e-004	0.0789	6.8000e-004	0.0796	0.0210	6.3000e-004	0.0216	0.0000	77.2758	77.2758	3.2100e-003	0.0000	77.3560
Total	0.0756	0.3900	0.5786	1.4300e-003	0.0924	4.6300e-003	0.0970	0.0249	4.4100e-003	0.0293	0.0000	131.6589	131.6589	5.0200e-003	0.0000	131.7842

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3497	3.0524	2.2943	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867
Total	0.3497	3.0524	2.2943	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0583	1.3686	0.5001	2.4100e-003	0.0567	0.0132	0.0699	0.0164	0.0126	0.0290	0.0000	228.0177	228.0177	6.6200e-003	0.0000	228.1833
Worker	0.2240	0.1580	1.6296	3.5100e-003	0.3323	2.7300e-003	0.3350	0.0884	2.5200e-003	0.0909	0.0000	316.2656	316.2656	0.0118	0.0000	316.5612
Total	0.2823	1.5267	2.1296	5.9200e-003	0.3890	0.0159	0.4049	0.1048	0.0152	0.1200	0.0000	544.2833	544.2833	0.0185	0.0000	544.7445

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3497	3.0524	2.2942	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864
Total	0.3497	3.0524	2.2942	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0583	1.3686	0.5001	2.4100e-003	0.0567	0.0132	0.0699	0.0164	0.0126	0.0290	0.0000	228.0177	228.0177	6.6200e-003	0.0000	228.1833
Worker	0.2240	0.1580	1.6296	3.5100e-003	0.3323	2.7300e-003	0.3350	0.0884	2.5200e-003	0.0909	0.0000	316.2656	316.2656	0.0118	0.0000	316.5612
Total	0.2823	1.5267	2.1296	5.9200e-003	0.3890	0.0159	0.4049	0.1048	0.0152	0.1200	0.0000	544.2833	544.2833	0.0185	0.0000	544.7445

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.2827	0.4486	2.3900e-003	0.0567	0.0104	0.0671	0.0164	9.9300e-003	0.0263	0.0000	226.6014	226.6014	5.8500e-003	0.0000	226.7477
Worker	0.2051	0.1389	1.4372	3.3700e-003	0.3323	2.6000e-003	0.3349	0.0884	2.4000e-003	0.0908	0.0000	303.9654	303.9654	0.0103	0.0000	304.2229
Total	0.2549	1.4215	1.8858	5.7600e-003	0.3890	0.0130	0.4020	0.1048	0.0123	0.1171	0.0000	530.5668	530.5668	0.0162	0.0000	530.9706

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.2827	0.4486	2.3900e-003	0.0567	0.0104	0.0671	0.0164	9.9300e-003	0.0263	0.0000	226.6014	226.6014	5.8500e-003	0.0000	226.7477
Worker	0.2051	0.1389	1.4372	3.3700e-003	0.3323	2.6000e-003	0.3349	0.0884	2.4000e-003	0.0908	0.0000	303.9654	303.9654	0.0103	0.0000	304.2229
Total	0.2549	1.4215	1.8858	5.7600e-003	0.3890	0.0130	0.4020	0.1048	0.0123	0.1171	0.0000	530.5668	530.5668	0.0162	0.0000	530.9706

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0594	0.5372	0.4718	7.5000e-004		0.0313	0.0313		0.0294	0.0294	0.0000	64.8508	64.8508	0.0158	0.0000	65.2463
Total	0.0594	0.5372	0.4718	7.5000e-004		0.0313	0.0313		0.0294	0.0294	0.0000	64.8508	64.8508	0.0158	0.0000	65.2463

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3400e-003	0.2490	0.0845	5.1000e-004	0.0122	1.3700e-003	0.0136	3.5200e-003	1.3100e-003	4.8300e-003	0.0000	48.4094	48.4094	1.0500e-003	0.0000	48.4356
Worker	0.0410	0.0265	0.2760	7.0000e-004	0.0713	5.4000e-004	0.0718	0.0190	5.0000e-004	0.0195	0.0000	63.1936	63.1936	1.9300e-003	0.0000	63.2418
Total	0.0493	0.2755	0.3605	1.2100e-003	0.0835	1.9100e-003	0.0854	0.0225	1.8100e-003	0.0243	0.0000	111.6031	111.6031	2.9800e-003	0.0000	111.6775

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0594	0.5372	0.4718	7.5000e-004		0.0313	0.0313		0.0294	0.0294	0.0000	64.8507	64.8507	0.0158	0.0000	65.2463
Total	0.0594	0.5372	0.4718	7.5000e-004		0.0313	0.0313		0.0294	0.0294	0.0000	64.8507	64.8507	0.0158	0.0000	65.2463

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3400e-003	0.2490	0.0845	5.1000e-004	0.0122	1.3700e-003	0.0136	3.5200e-003	1.3100e-003	4.8300e-003	0.0000	48.4094	48.4094	1.0500e-003	0.0000	48.4356
Worker	0.0410	0.0265	0.2760	7.0000e-004	0.0713	5.4000e-004	0.0718	0.0190	5.0000e-004	0.0195	0.0000	63.1936	63.1936	1.9300e-003	0.0000	63.2418
Total	0.0493	0.2755	0.3605	1.2100e-003	0.0835	1.9100e-003	0.0854	0.0225	1.8100e-003	0.0243	0.0000	111.6031	111.6031	2.9800e-003	0.0000	111.6775

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.5 Site Preparation - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
Total	0.0248	0.2614	0.1173	1.9000e-004	0.0903	0.0144	0.1047	0.0497	0.0132	0.0629	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797
Total	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.5 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
Total	0.0248	0.2614	0.1173	1.9000e-004	0.0903	0.0144	0.1047	0.0497	0.0132	0.0629	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797
Total	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3824					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0350
Total	6.3891	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0350

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1200e-003	5.2600e-003	0.0547	1.4000e-004	0.0141	1.1000e-004	0.0143	3.7600e-003	1.0000e-004	3.8600e-003	0.0000	12.5324	12.5324	3.8000e-004	0.0000	12.5420
Total	8.1200e-003	5.2600e-003	0.0547	1.4000e-004	0.0141	1.1000e-004	0.0143	3.7600e-003	1.0000e-004	3.8600e-003	0.0000	12.5324	12.5324	3.8000e-004	0.0000	12.5420

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.3824					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0350
Total	6.3891	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0350

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1200e-003	5.2600e-003	0.0547	1.4000e-004	0.0141	1.1000e-004	0.0143	3.7600e-003	1.0000e-004	3.8600e-003	0.0000	12.5324	12.5324	3.8000e-004	0.0000	12.5420
Total	8.1200e-003	5.2600e-003	0.0547	1.4000e-004	0.0141	1.1000e-004	0.0143	3.7600e-003	1.0000e-004	3.8600e-003	0.0000	12.5324	12.5324	3.8000e-004	0.0000	12.5420

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8370	3.4753	11.2372	0.0313	2.6540	0.0382	2.6922	0.7120	0.0360	0.7480	0.0000	2,850.0318	2,850.0318	0.1003	0.0000	2,852.5392
Unmitigated	0.8370	3.4753	11.2372	0.0313	2.6540	0.0382	2.6922	0.7120	0.0360	0.7480	0.0000	2,850.0318	2,850.0318	0.1003	0.0000	2,852.5392

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,942.08	2,021.64	1758.48	7,176,429	7,176,429
Total	1,942.08	2,021.64	1,758.48	7,176,429	7,176,429

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	242.4024	242.4024	0.0242	5.0200e-003	244.5030
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	242.4024	242.4024	0.0242	5.0200e-003	244.5030
NaturalGas Mitigated	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813
NaturalGas Unmitigated	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.28165e+006	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813
Total		0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813

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	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.28165e+006	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813
Total		0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7578	121.7578	2.3300e-003	2.2300e-003	122.4813

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.84278e+006	242.4024	0.0242	5.0200e-003	244.5030
Total		242.4024	0.0242	5.0200e-003	244.5030

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.84278e+006	242.4024	0.0242	5.0200e-003	244.5030
Total		242.4024	0.0242	5.0200e-003	244.5030

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701
Unmitigated	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701

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	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6806	160.6806	3.0800e-003	2.9500e-003	161.6354
Landscaping	0.0463	0.0176	1.5198	8.0000e-005		8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	2.4744	2.4744	2.4100e-003	0.0000	2.5347
Total	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6806	160.6806	3.0800e-003	2.9500e-003	161.6354
Landscaping	0.0463	0.0176	1.5198	8.0000e-005		8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	2.4744	2.4744	2.4100e-003	0.0000	2.5347
Total	2.2972	0.1563	1.5789	9.7000e-004		0.0196	0.0196		0.0196	0.0196	0.0000	163.1550	163.1550	5.4900e-003	2.9500e-003	164.1701

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.4143	0.4345	0.0105	32.4124
Unmitigated	21.5724	0.4348	0.0106	35.5978

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 8.7693	4.0374	4.0000e-004	8.0000e-005	4.0723
Single Family Housing	13.2914 / 8.37937	17.5351	0.4344	0.0105	31.5255
Total		21.5724	0.4348	0.0106	35.5978

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.26158	2.4224	2.4000e-004	5.0000e-005	2.4434
Single Family Housing	13.2914 / 5.02762	15.9919	0.4343	0.0105	29.9690
Total		18.4143	0.4345	0.0105	32.4124

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.7945	1.8790	0.0000	78.7695
Unmitigated	31.7945	1.8790	0.0000	78.7695

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Single Family Housing	156	31.6666	1.8714	0.0000	78.4526
Total		31.7945	1.8790	0.0000	78.7695

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Single Family Housing	156	31.6666	1.8714	0.0000	78.4526
Total		31.7945	1.8790	0.0000	78.7695

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

Serrano Village Adopted Land Use (Residential)

El Dorado County AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	8.13	320,601.60	0
Single Family Housing	204.00	Dwelling Unit	24.02	408,000.00	624

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description and 3.06 people per DU.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Fleet Mix - No trips generated by passive park area.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	55.00
tblConstructionPhase	NumDays	500.00	640.00
tblConstructionPhase	NumDays	45.00	60.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	2/19/2020	3/18/2020
tblConstructionPhase	PhaseEndDate	3/18/2020	10/4/2017
tblConstructionPhase	PhaseStartDate	9/7/2017	10/5/2017
tblConstructionPhase	PhaseStartDate	2/20/2020	9/7/2017
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	112.20	204.00
tblFireplaces	NumberNoFireplace	20.40	0.00
tblFireplaces	NumberWood	71.40	0.00
tblGrading	AcresOfGrading	150.00	36.61

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

tblLandUse	LandUseSquareFeet	367,200.00	408,000.00
tblLandUse	LotAcreage	7.36	8.13
tblLandUse	LotAcreage	66.23	24.02
tblLandUse	Population	583.00	624.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	10.20	0.00
tblWoodstoves	NumberNoncatalytic	10.20	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9416	68.0559	40.2898	0.0756	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,577.2715	7,577.2715	1.9558	0.0000	7,598.1902
2018	4.9254	34.6848	34.8882	0.0747	3.1070	1.6212	4.7282	0.8340	1.5253	2.3593	0.0000	7,457.6389	7,457.6389	0.8033	0.0000	7,477.7202
2019	4.3920	31.6144	32.5401	0.0734	3.1070	1.3886	4.4957	0.8340	1.3065	2.1405	0.0000	7,303.9980	7,303.9980	0.7727	0.0000	7,323.3144
2020	232.6407	28.7218	30.6031	0.0724	3.1071	1.1849	4.2920	0.8340	1.1146	1.9486	0.0000	7,171.3779	7,171.3779	0.7447	0.0000	7,189.9948
Maximum	232.6407	68.0559	40.2898	0.0756	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,577.2715	7,577.2715	1.9558	0.0000	7,598.1902

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9416	68.0559	40.2898	0.0756	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,577.2715	7,577.2715	1.9558	0.0000	7,598.1902
2018	4.9254	34.6848	34.8882	0.0747	3.1070	1.6212	4.7282	0.8340	1.5253	2.3593	0.0000	7,457.6389	7,457.6389	0.8033	0.0000	7,477.7202
2019	4.3920	31.6144	32.5401	0.0734	3.1070	1.3886	4.4957	0.8340	1.3065	2.1405	0.0000	7,303.9980	7,303.9980	0.7727	0.0000	7,323.3144
2020	232.6407	28.7218	30.6031	0.0724	3.1071	1.1849	4.2920	0.8340	1.1146	1.9486	0.0000	7,171.3779	7,171.3779	0.7447	0.0000	7,189.9948
Maximum	232.6407	68.0559	40.2898	0.0756	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,577.2715	7,577.2715	1.9558	0.0000	7,598.1902

[illegible]

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Energy	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Mobile	5.6541	18.7791	68.8590	0.1931	15.9523	0.2203	16.1727	4.2648	0.2074	4.4721		19,354.2542	19,354.2542	0.6595		19,370.7407
Total	18.8767	22.9345	87.4311	0.2192	15.9523	0.6334	16.5857	4.2648	0.6204	4.8852	0.0000	24,439.9849	24,439.9849	0.7859	0.0927	24,487.2521

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Energy	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Mobile	5.6541	18.7791	68.8590	0.1931	15.9523	0.2203	16.1727	4.2648	0.2074	4.4721		19,354.2542	19,354.2542	0.6595		19,370.7407
Total	18.8767	22.9345	87.4311	0.2192	15.9523	0.6334	16.5857	4.2648	0.6204	4.8852	0.0000	24,439.9849	24,439.9849	0.7859	0.0927	24,487.2521

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	9/7/2017	10/4/2017	5	20	
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	10/5/2017	3/18/2020	5	640	Underground and Building Construction
4	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.61

Residential Indoor: 826,200; Residential Outdoor: 275,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

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	Hauling Vehicle Class
Architectural Coating	1	42.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	74.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.1 Mitigation Measures Construction**3.2 Paving - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626
Total	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.2 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626
Total	0.1450	0.0872	1.1304	2.1600e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		214.7427	214.7427	8.8000e-003		214.9626

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6692	0.0000	6.6692	3.3801	0.0000	3.3801			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
Total	5.7483	67.9396	38.7826	0.0620	6.6692	3.0727	9.7419	3.3801	2.8269	6.2070		6,344.8863	6,344.8863	1.9441		6,393.4879

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6692	0.0000	6.6692	3.3801	0.0000	3.3801			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
Total	5.7483	67.9396	38.7826	0.0620	6.6692	3.0727	9.7419	3.3801	2.8269	6.2070	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5123	10.9139	4.0380	0.0187	0.4502	0.1266	0.5768	0.1294	0.1212	0.2506		1,948.5270	1,948.5270	0.0616		1,950.0673
Worker	2.0100	1.2096	15.6749	0.0300	2.6568	0.0219	2.6787	0.7046	0.0202	0.7248		2,977.7648	2,977.7648	0.1220		2,980.8150
Total	2.5223	12.1235	19.7129	0.0487	3.1069	0.1485	3.2555	0.8340	0.1414	0.9753		4,926.2918	4,926.2918	0.1836		4,930.8824

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5123	10.9139	4.0380	0.0187	0.4502	0.1266	0.5768	0.1294	0.1212	0.2506		1,948.5270	1,948.5270	0.0616		1,950.0673
Worker	2.0100	1.2096	15.6749	0.0300	2.6568	0.0219	2.6787	0.7046	0.0202	0.7248		2,977.7648	2,977.7648	0.1220		2,980.8150
Total	2.5223	12.1235	19.7129	0.0487	3.1069	0.1485	3.2555	0.8340	0.1414	0.9753		4,926.2918	4,926.2918	0.1836		4,930.8824

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4385	10.2363	3.5745	0.0186	0.4502	0.1004	0.5506	0.1294	0.0961	0.2255		1,941.1406	1,941.1406	0.0536		1,942.4812
Worker	1.8074	1.0584	13.7333	0.0291	2.6568	0.0209	2.6777	0.7046	0.0193	0.7239		2,895.5632	2,895.5632	0.1075		2,898.2507
Total	2.2459	11.2948	17.3078	0.0477	3.1070	0.1214	3.2284	0.8340	0.1154	0.9494		4,836.7038	4,836.7038	0.1611		4,840.7319

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4385	10.2363	3.5745	0.0186	0.4502	0.1004	0.5506	0.1294	0.0961	0.2255		1,941.1406	1,941.1406	0.0536		1,942.4812
Worker	1.8074	1.0584	13.7333	0.0291	2.6568	0.0209	2.6777	0.7046	0.0193	0.7239		2,895.5632	2,895.5632	0.1075		2,898.2507
Total	2.2459	11.2948	17.3078	0.0477	3.1070	0.1214	3.2284	0.8340	0.1154	0.9494		4,836.7038	4,836.7038	0.1611		4,840.7319

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3747	9.6049	3.2053	0.0185	0.4503	0.0788	0.5291	0.1294	0.0754	0.2048		1,929.2575	1,929.2575	0.0474		1,930.4417
Worker	1.6562	0.9306	12.1710	0.0280	2.6568	0.0200	2.6767	0.7046	0.0184	0.7230		2,783.1604	2,783.1604	0.0940		2,785.5093
Total	2.0308	10.5356	15.3763	0.0465	3.1070	0.0988	3.2058	0.8340	0.0938	0.9278		4,712.4179	4,712.4179	0.1413		4,715.9509

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3747	9.6049	3.2053	0.0185	0.4503	0.0788	0.5291	0.1294	0.0754	0.2048		1,929.2575	1,929.2575	0.0474		1,930.4417
Worker	1.6562	0.9306	12.1710	0.0280	2.6568	0.0200	2.6767	0.7046	0.0184	0.7230		2,783.1604	2,783.1604	0.0940		2,785.5093
Total	2.0308	10.5356	15.3763	0.0465	3.1070	0.0988	3.2058	0.8340	0.0938	0.9278		4,712.4179	4,712.4179	0.1413		4,715.9509

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2917	8.7068	2.8111	0.0184	0.4503	0.0485	0.4988	0.1295	0.0464	0.1759		1,921.3638	1,921.3638	0.0395		1,922.3504
Worker	1.5422	0.8290	10.9435	0.0271	2.6568	0.0193	2.6761	0.7046	0.0178	0.7224		2,696.9510	2,696.9510	0.0824		2,699.0099
Total	1.8339	9.5357	13.7546	0.0455	3.1071	0.0678	3.1749	0.8340	0.0642	0.8982		4,618.3148	4,618.3148	0.1218		4,621.3604

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2917	8.7068	2.8111	0.0184	0.4503	0.0485	0.4988	0.1295	0.0464	0.1759		1,921.3638	1,921.3638	0.0395		1,922.3504
Worker	1.5422	0.8290	10.9435	0.0271	2.6568	0.0193	2.6761	0.7046	0.0178	0.7224		2,696.9510	2,696.9510	0.0824		2,699.0099
Total	1.8339	9.5357	13.7546	0.0455	3.1071	0.0678	3.1749	0.8340	0.0642	0.8982		4,618.3148	4,618.3148	0.1218		4,621.3604

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.5 Site Preparation - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.9500	3,894.9500	1.1934		3,924.7852

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552
Total	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.5 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552
Total	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	232.3293	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3114	0.1674	2.2097	5.4700e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		544.5767	544.5767	0.0166		544.9924
Total	0.3114	0.1674	2.2097	5.4700e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		544.5767	544.5767	0.0166		544.9924

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	232.3293	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3114	0.1674	2.2097	5.4700e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		544.5767	544.5767	0.0166		544.9924
Total	0.3114	0.1674	2.2097	5.4700e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		544.5767	544.5767	0.0166		544.9924

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6541	18.7791	68.8590	0.1931	15.9523	0.2203	16.1727	4.2648	0.2074	4.4721		19,354.2542	19,354.2542	0.6595		19,370.7407
Unmitigated	5.6541	18.7791	68.8590	0.1931	15.9523	0.2203	16.1727	4.2648	0.2074	4.4721		19,354.2542	19,354.2542	0.6595		19,370.7407

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,942.08	2,021.64	1,758.48	7,176,429	7,176,429
Total	1,942.08	2,021.64	1,758.48	7,176,429	7,176,429

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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
NaturalGas Unmitigated	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6251.11	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Total		0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.25111	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Total		0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Unmitigated	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3960	3.3840	1.4400	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	4,320.0000	4,320.0000	0.0828	0.0792	4,345.6716
Landscaping	0.5143	0.1953	16.8870	8.9000e-004		0.0929	0.0929		0.0929	0.0929		30.3063	30.3063	0.0296		31.0452
Total	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3960	3.3840	1.4400	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	4,320.0000	4,320.0000	0.0828	0.0792	4,345.6716
Landscaping	0.5143	0.1953	16.8870	8.9000e-004		0.0929	0.0929		0.0929	0.0929		30.3063	30.3063	0.0296		31.0452
Total	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

Serrano Village Adopted Land Use (Residential)**El Dorado County AQMD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	8.13	320,601.60	0
Single Family Housing	204.00	Dwelling Unit	24.02	408,000.00	624

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description and 3.06 people per DU.

Construction Phase - Per Project Description.

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Fleet Mix - No trips generated by passive park area.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	55.00
tblConstructionPhase	NumDays	500.00	640.00
tblConstructionPhase	NumDays	45.00	60.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	2/19/2020	3/18/2020
tblConstructionPhase	PhaseEndDate	3/18/2020	10/4/2017
tblConstructionPhase	PhaseStartDate	9/7/2017	10/5/2017
tblConstructionPhase	PhaseStartDate	2/20/2020	9/7/2017
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	112.20	204.00
tblFireplaces	NumberNoFireplace	20.40	0.00
tblFireplaces	NumberWood	71.40	0.00
tblGrading	AcresOfGrading	150.00	36.61

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

tblLandUse	LandUseSquareFeet	367,200.00	408,000.00
tblLandUse	LotAcreage	7.36	8.13
tblLandUse	LotAcreage	66.23	24.02
tblLandUse	Population	583.00	624.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	10.20	0.00
tblWoodstoves	NumberNoncatalytic	10.20	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9551	68.0836	40.1766	0.0724	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,254.9025	7,254.9025	1.9550	0.0000	7,275.7430
2018	5.0697	35.1846	34.2132	0.0715	3.1070	1.6231	4.7301	0.8340	1.5271	2.3611	0.0000	7,141.6956	7,141.6956	0.7996	0.0000	7,161.6841
2019	4.5254	32.0530	31.8587	0.0703	3.1070	1.3903	4.4973	0.8340	1.3081	2.1421	0.0000	6,998.4516	6,998.4516	0.7690	0.0000	7,017.6769
2020	232.6627	29.0943	29.9128	0.0694	3.1071	1.1859	4.2930	0.8340	1.1156	1.9496	0.0000	6,873.0465	6,873.0465	0.7408	0.0000	6,891.5662
Maximum	232.6627	68.0836	40.1766	0.0724	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,254.9025	7,254.9025	1.9550	0.0000	7,275.7430

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9551	68.0836	40.1766	0.0724	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,254.9025	7,254.9025	1.9550	0.0000	7,275.7430
2018	5.0697	35.1846	34.2132	0.0715	3.1070	1.6231	4.7301	0.8340	1.5271	2.3611	0.0000	7,141.6956	7,141.6956	0.7996	0.0000	7,161.6841
2019	4.5254	32.0530	31.8587	0.0703	3.1070	1.3903	4.4973	0.8340	1.3081	2.1421	0.0000	6,998.4516	6,998.4516	0.7690	0.0000	7,017.6769
2020	232.6627	29.0943	29.9128	0.0694	3.1071	1.1859	4.2930	0.8340	1.1156	1.9496	0.0000	6,873.0465	6,873.0465	0.7408	0.0000	6,891.5661
Maximum	232.6627	68.0836	40.1766	0.0724	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,254.9025	7,254.9025	1.9550	0.0000	7,275.7430

[illegible]

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Energy	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Mobile	4.7536	20.6152	66.1499	0.1776	15.9523	0.2210	16.1733	4.2648	0.2079	4.4727		17,813.7257	17,813.7257	0.6407		17,829.7426
Total	17.9762	24.7706	84.7220	0.2038	15.9523	0.6340	16.5863	4.2648	0.6210	4.8858	0.0000	22,899.4564	22,899.4564	0.7671	0.0927	22,946.2540

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Energy	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Mobile	4.7536	20.6152	66.1499	0.1776	15.9523	0.2210	16.1733	4.2648	0.2079	4.4727		17,813.7257	17,813.7257	0.6407		17,829.7426
Total	17.9762	24.7706	84.7220	0.2038	15.9523	0.6340	16.5863	4.2648	0.6210	4.8858	0.0000	22,899.4564	22,899.4564	0.7671	0.0927	22,946.2540

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	9/7/2017	10/4/2017	5	20	
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	10/5/2017	3/18/2020	5	640	Underground and Building Construction
4	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.61

Residential Indoor: 826,200; Residential Outdoor: 275,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

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	Hauling Vehicle Class
Architectural Coating	1	42.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	208.00	74.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.1 Mitigation Measures Construction**3.2 Paving - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.6461	2,330.6461	0.7141		2,348.4988

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308
Total	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.2 Paving - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.6461	2,330.6461	0.7141		2,348.4988

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308
Total	0.1551	0.1080	1.0456	1.9500e-003	0.1916	1.5800e-003	0.1932	0.0508	1.4600e-003	0.0523		194.0259	194.0259	8.2000e-003		194.2308

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6692	0.0000	6.6692	3.3801	0.0000	3.3801			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
Total	5.7483	67.9396	38.7826	0.0620	6.6692	3.0727	9.7419	3.3801	2.8269	6.2070		6,344.8863	6,344.8863	1.9441		6,393.4879

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6692	0.0000	6.6692	3.3801	0.0000	3.3801			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
Total	5.7483	67.9396	38.7826	0.0620	6.6692	3.0727	9.7419	3.3801	2.8269	6.2070	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5371	11.1974	4.5845	0.0184	0.4502	0.1289	0.5790	0.1294	0.1233	0.2527		1,913.4305	1,913.4305	0.0669		1,915.1019
Worker	2.1505	1.4973	14.4985	0.0271	2.6568	0.0219	2.6787	0.7046	0.0202	0.7248		2,690.4922	2,690.4922	0.1136		2,693.3333
Total	2.6876	12.6947	19.0830	0.0455	3.1069	0.1508	3.2577	0.8340	0.1435	0.9775		4,603.9227	4,603.9227	0.1805		4,608.4352

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5371	11.1974	4.5845	0.0184	0.4502	0.1289	0.5790	0.1294	0.1233	0.2527		1,913.4305	1,913.4305	0.0669		1,915.1019
Worker	2.1505	1.4973	14.4985	0.0271	2.6568	0.0219	2.6787	0.7046	0.0202	0.7248		2,690.4922	2,690.4922	0.1136		2,693.3333
Total	2.6876	12.6947	19.0830	0.0455	3.1069	0.1508	3.2577	0.8340	0.1435	0.9775		4,603.9227	4,603.9227	0.1805		4,608.4352

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4595	10.4848	4.0596	0.0183	0.4502	0.1023	0.5525	0.1294	0.0979	0.2273		1,905.1800	1,905.1800	0.0582		1,906.6343
Worker	1.9307	1.3098	12.5731	0.0263	2.6568	0.0209	2.6777	0.7046	0.0193	0.7239		2,615.5805	2,615.5805	0.0992		2,618.0615
Total	2.3902	11.7946	16.6328	0.0446	3.1070	0.1233	3.2302	0.8340	0.1172	0.9512		4,520.7605	4,520.7605	0.1574		4,524.6958

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4595	10.4848	4.0596	0.0183	0.4502	0.1023	0.5525	0.1294	0.0979	0.2273		1,905.1800	1,905.1800	0.0582		1,906.6343
Worker	1.9307	1.3098	12.5731	0.0263	2.6568	0.0209	2.6777	0.7046	0.0193	0.7239		2,615.5805	2,615.5805	0.0992		2,618.0615
Total	2.3902	11.7946	16.6328	0.0446	3.1070	0.1233	3.2302	0.8340	0.1172	0.9512		4,520.7605	4,520.7605	0.1574		4,524.6958

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3929	9.8230	3.6426	0.0182	0.4503	0.0805	0.5307	0.1294	0.0770	0.2064		1,893.1056	1,893.1056	0.0514		1,894.3917
Worker	1.7713	1.1512	11.0523	0.0253	2.6568	0.0200	2.6767	0.7046	0.0184	0.7230		2,513.7658	2,513.7658	0.0862		2,515.9217
Total	2.1642	10.9742	14.6949	0.0434	3.1070	0.1004	3.2075	0.8340	0.0954	0.9294		4,406.8714	4,406.8714	0.1377		4,410.3135

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3929	9.8230	3.6426	0.0182	0.4503	0.0805	0.5307	0.1294	0.0770	0.2064		1,893.1056	1,893.1056	0.0514		1,894.3917
Worker	1.7713	1.1512	11.0523	0.0253	2.6568	0.0200	2.6767	0.7046	0.0184	0.7230		2,513.7658	2,513.7658	0.0862		2,515.9217
Total	2.1642	10.9742	14.6949	0.0434	3.1070	0.1004	3.2075	0.8340	0.0954	0.9294		4,406.8714	4,406.8714	0.1377		4,410.3135

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3073	8.8836	3.1983	0.0181	0.4503	0.0496	0.4999	0.1295	0.0474	0.1769		1,884.3196	1,884.3196	0.0430		1,885.3942
Worker	1.6511	1.0246	9.8660	0.0245	2.6568	0.0193	2.6761	0.7046	0.0178	0.7224		2,435.6638	2,435.6638	0.0750		2,437.5375
Total	1.9584	9.9082	13.0643	0.0425	3.1071	0.0689	3.1760	0.8340	0.0652	0.8992		4,319.9834	4,319.9834	0.1179		4,322.9317

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3073	8.8836	3.1983	0.0181	0.4503	0.0496	0.4999	0.1295	0.0474	0.1769		1,884.3196	1,884.3196	0.0430		1,885.3942
Worker	1.6511	1.0246	9.8660	0.0245	2.6568	0.0193	2.6761	0.7046	0.0178	0.7224		2,435.6638	2,435.6638	0.0750		2,437.5375
Total	1.9584	9.9082	13.0643	0.0425	3.1071	0.0689	3.1760	0.8340	0.0652	0.8992		4,319.9834	4,319.9834	0.1179		4,322.9317

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.5 Site Preparation - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.9500	3,894.9500	1.1934		3,924.7852

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769
Total	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.5 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769
Total	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	232.3293	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3334	0.2069	1.9922	4.9400e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		491.8167	491.8167	0.0151		492.1951
Total	0.3334	0.2069	1.9922	4.9400e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		491.8167	491.8167	0.0151		492.1951

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	232.0871					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	232.3293	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3334	0.2069	1.9922	4.9400e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		491.8167	491.8167	0.0151		492.1951
Total	0.3334	0.2069	1.9922	4.9400e-003	0.5365	3.9000e-003	0.5404	0.1423	3.5900e-003	0.1459		491.8167	491.8167	0.0151		492.1951

4.0 Operational Detail - Mobile

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.7536	20.6152	66.1499	0.1776	15.9523	0.2210	16.1733	4.2648	0.2079	4.4727		17,813.7257	17,813.7257	0.6407		17,829.7426
Unmitigated	4.7536	20.6152	66.1499	0.1776	15.9523	0.2210	16.1733	4.2648	0.2079	4.4727		17,813.7257	17,813.7257	0.6407		17,829.7426

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,942.08	2,021.64	1,758.48	7,176,429	7,176,429
Total	1,942.08	2,021.64	1,758.48	7,176,429	7,176,429

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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
NaturalGas Unmitigated	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6251.11	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Total		0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.25111	0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947
Total		0.0674	0.5761	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.4244	735.4244	0.0141	0.0135	739.7947

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168
Unmitigated	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3960	3.3840	1.4400	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	4,320.0000	4,320.0000	0.0828	0.0792	4,345.6716
Landscaping	0.5143	0.1953	16.8870	8.9000e-004		0.0929	0.0929		0.0929	0.0929		30.3063	30.3063	0.0296		31.0452
Total	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3960	3.3840	1.4400	0.0216		0.2736	0.2736		0.2736	0.2736	0.0000	4,320.0000	4,320.0000	0.0828	0.0792	4,345.6716
Landscaping	0.5143	0.1953	16.8870	8.9000e-004		0.0929	0.0929		0.0929	0.0929		30.3063	30.3063	0.0296		31.0452
Total	13.1552	3.5793	18.3270	0.0225		0.3665	0.3665		0.3665	0.3665	0.0000	4,350.3063	4,350.3063	0.1124	0.0792	4,376.7168

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Adopted Land Use (Residential) - El Dorado County AQMD Air District, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

Serrano Village Proposed Land Use

El Dorado County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	7.36	320,601.60	0
Single Family Housing	148.00	Dwelling Unit	28.67	414,400.00	453

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description.

Construction Phase - Per Project Description

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Fleet Mix - No trips generated by passive park area.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	640.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	81.40	148.00
tblFireplaces	NumberNoFireplace	14.80	0.00
tblFireplaces	NumberWood	51.80	0.00
tblFleetMix	HHD	9.2700e-003	0.00
tblFleetMix	LDA	0.51	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.23	0.00
tblFleetMix	LHD1	0.04	0.00
tblFleetMix	LHD2	7.1510e-003	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

tblFleetMix	MCY	5.6380e-003	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	1.8010e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.5800e-003	0.00
tblFleetMix	SBUS	8.2600e-004	0.00
tblFleetMix	UBUS	1.2070e-003	0.00
tblGrading	AcresOfGrading	150.00	36.03
tblLandUse	BuildingSpaceSquareFeet	266,400.00	414,400.00
tblLandUse	LandUseSquareFeet	266,400.00	414,400.00
tblLandUse	LotAcreage	48.05	28.67
tblLandUse	Population	423.00	453.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

tblWoodstoves	NumberCatalytic	7.40	0.00
tblWoodstoves	NumberNoncatalytic	7.40	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4220	3.8660	2.7682	4.9700e-003	0.4093	0.1856	0.5948	0.1831	0.1723	0.3554	0.0000	455.6884	455.6884	0.0890	0.0000	457.9131
2018	0.6057	4.4529	4.2266	8.9000e-003	0.3524	0.2103	0.5628	0.0950	0.1979	0.2929	0.0000	805.6714	805.6714	0.0928	0.0000	807.9913
2019	0.5393	4.0550	3.9511	8.7600e-003	0.3525	0.1802	0.5327	0.0950	0.1696	0.2645	0.0000	789.7772	789.7772	0.0894	0.0000	792.0130
2020	6.5780	0.7003	0.7671	1.6500e-003	0.0632	0.0319	0.0952	0.0170	0.0301	0.0470	0.0000	147.0212	147.0212	0.0193	0.0000	147.5044
Maximum	6.5780	4.4529	4.2266	8.9000e-003	0.4093	0.2103	0.5948	0.1831	0.1979	0.3554	0.0000	805.6714	805.6714	0.0928	0.0000	807.9913

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

2.1 Overall Construction**Mitigated Construction**

	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	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4220	3.8660	2.7682	4.9700e-003	0.4093	0.1856	0.5948	0.1831	0.1723	0.3554	0.0000	455.6881	455.6881	0.0890	0.0000	457.9128
2018	0.6057	4.4529	4.2266	8.9000e-003	0.3524	0.2103	0.5628	0.0950	0.1979	0.2929	0.0000	805.6711	805.6711	0.0928	0.0000	807.9910
2019	0.5393	4.0550	3.9511	8.7600e-003	0.3525	0.1802	0.5327	0.0950	0.1696	0.2645	0.0000	789.7769	789.7769	0.0894	0.0000	792.0126
2020	6.5780	0.7003	0.7671	1.6500e-003	0.0632	0.0319	0.0952	0.0170	0.0301	0.0470	0.0000	147.0212	147.0212	0.0193	0.0000	147.5043
Maximum	6.5780	4.4529	4.2266	8.9000e-003	0.4093	0.2103	0.5948	0.1831	0.1979	0.3554	0.0000	805.6711	805.6711	0.0928	0.0000	807.9910

	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	N2O	CO2e
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	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2017	8-31-2017	2.3489	2.3489
2	9-1-2017	11-30-2017	1.4809	1.4809
3	12-1-2017	2-28-2018	1.3073	1.3073
4	3-1-2018	5-31-2018	1.2705	1.2705
5	6-1-2018	8-31-2018	1.2640	1.2640
6	9-1-2018	11-30-2018	1.2630	1.2630
7	12-1-2018	2-28-2019	1.1798	1.1798
8	3-1-2019	5-31-2019	1.1541	1.1541

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

9	6-1-2019	8-31-2019	1.1483	1.1483
10	9-1-2019	11-30-2019	1.1472	1.1472
11	12-1-2019	2-29-2020	1.0229	1.0229
12	3-1-2020	5-31-2020	6.3929	6.3929
13	6-1-2020	8-31-2020	0.2551	0.2551
		Highest	6.3929	6.3929

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9900e-003	2.1400e-003	119.1039
Energy	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	264.1947	264.1947	0.0193	5.2600e-003	266.2435
Mobile	0.6072	2.5213	8.1525	0.0227	1.9255	0.0277	1.9532	0.5166	0.0261	0.5427	0.0000	2,067.6701	2,067.6701	0.0728	0.0000	2,069.4892
Waste						0.0000	0.0000		0.0000	0.0000	23.1166	0.0000	23.1166	1.3662	0.0000	57.2704
Water						0.0000	0.0000		0.0000	0.0000	3.0592	13.6997	16.7589	0.3156	7.7000e-003	26.9438
Total	2.9312	2.7110	9.3304	0.0239	1.9255	0.0481	1.9736	0.5166	0.0465	0.5630	26.1758	2,463.9318	2,490.1076	1.7778	0.0151	2,539.0508

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9900e-003	2.1400e-003	119.1039
Energy	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	264.1947	264.1947	0.0193	5.2600e-003	266.2435
Mobile	0.6072	2.5213	8.1525	0.0227	1.9255	0.0277	1.9532	0.5166	0.0261	0.5427	0.0000	2,067.6701	2,067.6701	0.0728	0.0000	2,069.4892
Waste						0.0000	0.0000		0.0000	0.0000	23.1166	0.0000	23.1166	1.3662	0.0000	57.2704
Water						0.0000	0.0000		0.0000	0.0000	3.0592	10.9652	14.0244	0.3153	7.6500e-003	24.1856
Total	2.9312	2.7110	9.3304	0.0239	1.9255	0.0481	1.9736	0.5166	0.0465	0.5630	26.1758	2,461.1973	2,487.3731	1.7775	0.0151	2,536.2926

	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	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.02	0.33	0.11

3.0 Construction Detail**Construction Phase**

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	9/7/2017	2/19/2020	5	640	Underground and Building Construction
4	Paving	Paving	2/20/2020	3/18/2020	5	20	
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.03

Residential Indoor: 839,160; Residential Outdoor: 279,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	188.00	68.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
Total	0.0248	0.2614	0.1173	1.9000e-004	0.0903	0.0144	0.1047	0.0497	0.0132	0.0629	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797
Total	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.2 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
Total	0.0248	0.2614	0.1173	1.9000e-004	0.0903	0.0144	0.1047	0.0497	0.0132	0.0629	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797
Total	8.3000e-004	6.0000e-004	6.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0786	1.0786	4.0000e-005	0.0000	1.0797

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1998	0.0000	0.1998	0.1014	0.0000	0.1014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1725	2.0382	1.1635	1.8600e-003		0.0922	0.0922		0.0848	0.0848	0.0000	172.6795	172.6795	0.0529	0.0000	174.0022
Total	0.1725	2.0382	1.1635	1.8600e-003	0.1998	0.0922	0.2920	0.1014	0.0848	0.1862	0.0000	172.6795	172.6795	0.0529	0.0000	174.0022

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981
Total	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1998	0.0000	0.1998	0.1014	0.0000	0.1014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1725	2.0382	1.1635	1.8600e-003		0.0922	0.0922		0.0848	0.0848	0.0000	172.6793	172.6793	0.0529	0.0000	174.0020
Total	0.1725	2.0382	1.1635	1.8600e-003	0.1998	0.0922	0.2920	0.1014	0.0848	0.1862	0.0000	172.6793	172.6793	0.0529	0.0000	174.0020

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981
Total	5.5200e-003	3.9900e-003	0.0414	8.0000e-005	7.3400e-003	6.0000e-005	7.4100e-003	1.9500e-003	6.0000e-005	2.0100e-003	0.0000	7.1907	7.1907	3.0000e-004	0.0000	7.1981

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1277	1.0887	0.7455	1.1000e-003		0.0733	0.0733		0.0688	0.0688	0.0000	98.6021	98.6021	0.0243	0.0000	99.2094
Total	0.1277	1.0887	0.7455	1.1000e-003		0.0733	0.0733		0.0688	0.0688	0.0000	98.6021	98.6021	0.0243	0.0000	99.2094

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0197	0.4218	0.1630	7.0000e-004	0.0164	4.8100e-003	0.0212	4.7300e-003	4.6000e-003	9.3300e-003	0.0000	66.0941	66.0941	2.2000e-003	0.0000	66.1491
Worker	0.0710	0.0513	0.5313	1.0300e-003	0.0944	8.1000e-004	0.0952	0.0251	7.5000e-004	0.0259	0.0000	92.3763	92.3763	3.8300e-003	0.0000	92.4721
Total	0.0906	0.4731	0.6944	1.7300e-003	0.1107	5.6200e-003	0.1163	0.0298	5.3500e-003	0.0352	0.0000	158.4704	158.4704	6.0300e-003	0.0000	158.6211

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1277	1.0887	0.7455	1.1000e-003		0.0733	0.0733		0.0688	0.0688	0.0000	98.6020	98.6020	0.0243	0.0000	99.2093
Total	0.1277	1.0887	0.7455	1.1000e-003		0.0733	0.0733		0.0688	0.0688	0.0000	98.6020	98.6020	0.0243	0.0000	99.2093

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0197	0.4218	0.1630	7.0000e-004	0.0164	4.8100e-003	0.0212	4.7300e-003	4.6000e-003	9.3300e-003	0.0000	66.0941	66.0941	2.2000e-003	0.0000	66.1491
Worker	0.0710	0.0513	0.5313	1.0300e-003	0.0944	8.1000e-004	0.0952	0.0251	7.5000e-004	0.0259	0.0000	92.3763	92.3763	3.8300e-003	0.0000	92.4721
Total	0.0906	0.4731	0.6944	1.7300e-003	0.1107	5.6200e-003	0.1163	0.0298	5.3500e-003	0.0352	0.0000	158.4704	158.4704	6.0300e-003	0.0000	158.6211

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3497	3.0524	2.2943	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867
Total	0.3497	3.0524	2.2943	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	1.2577	0.4595	2.2100e-003	0.0521	0.0121	0.0643	0.0151	0.0116	0.0267	0.0000	209.5298	209.5298	6.0900e-003	0.0000	209.6819
Worker	0.2025	0.1428	1.4729	3.1700e-003	0.3003	2.4700e-003	0.3028	0.0799	2.2800e-003	0.0822	0.0000	285.8554	285.8554	0.0107	0.0000	286.1227
Total	0.2561	1.4005	1.9324	5.3800e-003	0.3524	0.0146	0.3671	0.0950	0.0139	0.1089	0.0000	495.3852	495.3852	0.0168	0.0000	495.8046

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3497	3.0524	2.2942	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864
Total	0.3497	3.0524	2.2942	3.5100e-003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0536	1.2577	0.4595	2.2100e-003	0.0521	0.0121	0.0643	0.0151	0.0116	0.0267	0.0000	209.5298	209.5298	6.0900e-003	0.0000	209.6819
Worker	0.2025	0.1428	1.4729	3.1700e-003	0.3003	2.4700e-003	0.3028	0.0799	2.2800e-003	0.0822	0.0000	285.8554	285.8554	0.0107	0.0000	286.1227
Total	0.2561	1.4005	1.9324	5.3800e-003	0.3524	0.0146	0.3671	0.0950	0.0139	0.1089	0.0000	495.3852	495.3852	0.0168	0.0000	495.8046

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0458	1.1787	0.4122	2.2000e-003	0.0521	9.5300e-003	0.0617	0.0151	9.1200e-003	0.0242	0.0000	208.2283	208.2283	5.3800e-003	0.0000	208.3628
Worker	0.1853	0.1255	1.2990	3.0400e-003	0.3003	2.3500e-003	0.3027	0.0799	2.1700e-003	0.0821	0.0000	274.7380	274.7380	9.3100e-003	0.0000	274.9707
Total	0.2311	1.3042	1.7112	5.2400e-003	0.3525	0.0119	0.3643	0.0950	0.0113	0.1063	0.0000	482.9663	482.9663	0.0147	0.0000	483.3335

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0458	1.1787	0.4122	2.2000e-003	0.0521	9.5300e-003	0.0617	0.0151	9.1200e-003	0.0242	0.0000	208.2283	208.2283	5.3800e-003	0.0000	208.3628
Worker	0.1853	0.1255	1.2990	3.0400e-003	0.3003	2.3500e-003	0.3027	0.0799	2.1700e-003	0.0821	0.0000	274.7380	274.7380	9.3100e-003	0.0000	274.9707
Total	0.2311	1.3042	1.7112	5.2400e-003	0.3525	0.0119	0.3643	0.0950	0.0113	0.1063	0.0000	482.9663	482.9663	0.0147	0.0000	483.3335

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0382	0.3454	0.3033	4.8000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	41.6898	41.6898	0.0102	0.0000	41.9441
Total	0.0382	0.3454	0.3033	4.8000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	41.6898	41.6898	0.0102	0.0000	41.9441

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9300e-003	0.1471	0.0499	3.0000e-004	7.1900e-003	8.1000e-004	8.0000e-003	2.0800e-003	7.7000e-004	2.8500e-003	0.0000	28.5971	28.5971	6.2000e-004	0.0000	28.6126
Worker	0.0238	0.0154	0.1604	4.1000e-004	0.0414	3.1000e-004	0.0417	0.0110	2.9000e-004	0.0113	0.0000	36.7183	36.7183	1.1200e-003	0.0000	36.7463
Total	0.0287	0.1625	0.2103	7.1000e-004	0.0486	1.1200e-003	0.0497	0.0131	1.0600e-003	0.0142	0.0000	65.3154	65.3154	1.7400e-003	0.0000	65.3589

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0382	0.3454	0.3033	4.8000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	41.6898	41.6898	0.0102	0.0000	41.9440
Total	0.0382	0.3454	0.3033	4.8000e-004		0.0201	0.0201		0.0189	0.0189	0.0000	41.6898	41.6898	0.0102	0.0000	41.9440

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9300e-003	0.1471	0.0499	3.0000e-004	7.1900e-003	8.1000e-004	8.0000e-003	2.0800e-003	7.7000e-004	2.8500e-003	0.0000	28.5971	28.5971	6.2000e-004	0.0000	28.6126
Worker	0.0238	0.0154	0.1604	4.1000e-004	0.0414	3.1000e-004	0.0417	0.0110	2.9000e-004	0.0113	0.0000	36.7183	36.7183	1.1200e-003	0.0000	36.7463
Total	0.0287	0.1625	0.2103	7.1000e-004	0.0486	1.1200e-003	0.0497	0.0131	1.0600e-003	0.0142	0.0000	65.3154	65.3154	1.7400e-003	0.0000	65.3589

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.5 Paving - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.1100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6276	1.6276	5.0000e-005	0.0000	1.6288
Total	1.0500e-003	6.8000e-004	7.1100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6276	1.6276	5.0000e-005	0.0000	1.6288

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.5 Paving - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.1100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6276	1.6276	5.0000e-005	0.0000	1.6288
Total	1.0500e-003	6.8000e-004	7.1100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6276	1.6276	5.0000e-005	0.0000	1.6288

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.4825					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0350
Total	6.4892	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0350

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3500e-003	4.7600e-003	0.0495	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4000e-003	9.0000e-005	3.4900e-003	0.0000	11.3388	11.3388	3.5000e-004	0.0000	11.3475
Total	7.3500e-003	4.7600e-003	0.0495	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4000e-003	9.0000e-005	3.4900e-003	0.0000	11.3388	11.3388	3.5000e-004	0.0000	11.3475

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.4825					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0350
Total	6.4892	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0350

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3500e-003	4.7600e-003	0.0495	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4000e-003	9.0000e-005	3.4900e-003	0.0000	11.3388	11.3388	3.5000e-004	0.0000	11.3475
Total	7.3500e-003	4.7600e-003	0.0495	1.3000e-004	0.0128	1.0000e-004	0.0129	3.4000e-003	9.0000e-005	3.4900e-003	0.0000	11.3388	11.3388	3.5000e-004	0.0000	11.3475

4.0 Operational Detail - Mobile

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6072	2.5213	8.1525	0.0227	1.9255	0.0277	1.9532	0.5166	0.0261	0.5427	0.0000	2,067.6701	2,067.6701	0.0728	0.0000	2,069.4892
Unmitigated	0.6072	2.5213	8.1525	0.0227	1.9255	0.0277	1.9532	0.5166	0.0261	0.5427	0.0000	2,067.6701	2,067.6701	0.0728	0.0000	2,069.4892

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,408.96	1,466.68	1275.76	5,206,429	5,206,429
Total	1,408.96	1,466.68	1,275.76	5,206,429	5,206,429

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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8606	175.8606	0.0176	3.6400e-003	177.3845
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8606	175.8606	0.0176	3.6400e-003	177.3845
NaturalGas Mitigated	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590
NaturalGas Unmitigated	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.65532e+006	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590
Total		8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590

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	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.65532e+006	8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590
Total		8.9300e-003	0.0763	0.0325	4.9000e-004		6.1700e-003	6.1700e-003		6.1700e-003	6.1700e-003	0.0000	88.3341	88.3341	1.6900e-003	1.6200e-003	88.8590

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.33692e+006	175.8606	0.0176	3.6400e-003	177.3845
Total		175.8606	0.0176	3.6400e-003	177.3845

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.33692e+006	175.8606	0.0176	3.6400e-003	177.3845
Total		175.8606	0.0176	3.6400e-003	177.3845

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

	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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9900e-003	2.1400e-003	119.1039
Unmitigated	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9900e-003	2.1400e-003	119.1039

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	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0118	0.1007	0.0428	6.4000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	116.5722	116.5722	2.2300e-003	2.1400e-003	117.2649
Landscaping	0.0336	0.0128	1.1026	6.0000e-005		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	1.7952	1.7952	1.7500e-003	0.0000	1.8390
Total	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9800e-003	2.1400e-003	119.1039

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

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	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0118	0.1007	0.0428	6.4000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	116.5722	116.5722	2.2300e-003	2.1400e-003	117.2649
Landscaping	0.0336	0.0128	1.1026	6.0000e-005		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	1.7952	1.7952	1.7500e-003	0.0000	1.8390
Total	2.3151	0.1134	1.1455	7.0000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	118.3674	118.3674	3.9800e-003	2.1400e-003	119.1039

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.0244	0.3153	7.6500e-003	24.1856
Unmitigated	16.7589	0.3156	7.7000e-003	26.9438

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 8.7693	4.0374	4.0000e-004	8.0000e-005	4.0723
Single Family Housing	9.6428 / 6.07915	12.7215	0.3152	7.6200e-003	22.8714
Total		16.7589	0.3156	7.7000e-003	26.9438

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	Mgal	MT/yr			
City Park	0 / 5.26158	2.4224	2.4000e-004	5.0000e-005	2.4434
Single Family Housing	9.6428 / 3.64749	11.6020	0.3151	7.6000e-003	21.7422
Total		14.0244	0.3153	7.6500e-003	24.1856

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
	MT/yr			
Mitigated	23.1166	1.3662	0.0000	57.2704
Unmitigated	23.1166	1.3662	0.0000	57.2704

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Single Family Housing	113.25	22.9887	1.3586	0.0000	56.9536
Total		23.1166	1.3662	0.0000	57.2704

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Single Family Housing	113.25	22.9887	1.3586	0.0000	56.9536
Total		23.1166	1.3662	0.0000	57.2704

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

Serrano Village Proposed Land Use

El Dorado County AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	7.36	320,601.60	0
Single Family Housing	148.00	Dwelling Unit	28.67	414,400.00	453

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description.

Construction Phase - Per Project Description

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Fleet Mix - No trips generated by passive park area.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	640.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	81.40	148.00
tblFireplaces	NumberNoFireplace	14.80	0.00
tblFireplaces	NumberWood	51.80	0.00
tblFleetMix	HHD	9.2700e-003	0.00
tblFleetMix	LDA	0.51	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.23	0.00
tblFleetMix	LHD1	0.04	0.00
tblFleetMix	LHD2	7.1510e-003	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

tblFleetMix	MCY	5.6380e-003	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	1.8010e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.5800e-003	0.00
tblFleetMix	SBUS	8.2600e-004	0.00
tblFleetMix	UBUS	1.2070e-003	0.00
tblGrading	AcresOfGrading	150.00	36.03
tblLandUse	BuildingSpaceSquareFeet	266,400.00	414,400.00
tblLandUse	LandUseSquareFeet	266,400.00	414,400.00
tblLandUse	LotAcreage	48.05	28.67
tblLandUse	Population	423.00	453.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

tblWoodstoves	NumberCatalytic	7.40	0.00
tblWoodstoves	NumberNoncatalytic	7.40	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9416	68.0559	40.2898	0.0712	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,132.9593	7,132.9593	1.9558	0.0000	7,153.4598
2018	4.7161	33.7530	33.2779	0.0703	2.8150	1.6111	4.4261	0.7557	1.5157	2.2714	0.0000	7,021.8296	7,021.8296	0.7886	0.0000	7,041.5438
2019	4.2024	30.7461	31.1099	0.0692	2.8151	1.3803	4.1954	0.7558	1.2986	2.0544	0.0000	6,879.9602	6,879.9602	0.7598	0.0000	6,898.9547
2020	236.2516	27.9361	29.3229	0.0683	2.8151	1.1791	3.9942	0.7558	1.1091	1.8648	0.0000	6,756.2694	6,756.2694	0.7336	0.0000	6,774.6084
Maximum	236.2516	68.0559	40.2898	0.0712	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,132.9593	7,132.9593	1.9558	0.0000	7,153.4598

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9416	68.0559	40.2898	0.0712	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,132.9593	7,132.9593	1.9558	0.0000	7,153.4598
2018	4.7161	33.7530	33.2779	0.0703	2.8150	1.6111	4.4261	0.7557	1.5157	2.2714	0.0000	7,021.8296	7,021.8296	0.7886	0.0000	7,041.5438
2019	4.2024	30.7461	31.1099	0.0692	2.8151	1.3803	4.1954	0.7558	1.2986	2.0544	0.0000	6,879.9602	6,879.9602	0.7598	0.0000	6,898.9547
2020	236.2516	27.9361	29.3229	0.0683	2.8151	1.1791	3.9942	0.7558	1.1091	1.8648	0.0000	6,756.2694	6,756.2694	0.7336	0.0000	6,774.6084
Maximum	236.2516	68.0559	40.2898	0.0712	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	7,132.9593	7,132.9593	1.9558	0.0000	7,153.4598

[illegible]

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Energy	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Mobile	4.1020	13.6241	49.9565	0.1401	11.5733	0.1599	11.7331	3.0941	0.1504	3.2445		14,041.3217	14,041.3217	0.4784		14,053.2824
Total	17.2480	16.6388	63.4306	0.1591	11.5733	0.4595	12.0328	3.0941	0.4501	3.5441	0.0000	17,730.9699	17,730.9699	0.5702	0.0672	17,765.2618

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Energy	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Mobile	4.1020	13.6241	49.9565	0.1401	11.5733	0.1599	11.7331	3.0941	0.1504	3.2445		14,041.3217	14,041.3217	0.4784		14,053.2824
Total	17.2480	16.6388	63.4306	0.1591	11.5733	0.4595	12.0328	3.0941	0.4501	3.5441	0.0000	17,730.9699	17,730.9699	0.5702	0.0672	17,765.2618

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	9/7/2017	2/19/2020	5	640	Underground and Building Construction
4	Paving	Paving	2/20/2020	3/18/2020	5	20	
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.03

Residential Indoor: 839,160; Residential Outdoor: 279,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	188.00	68.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.9500	3,894.9500	1.1934		3,924.7852

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552
Total	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.2 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552
Total	0.1739	0.1047	1.3565	2.5900e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		257.6912	257.6912	0.0106		257.9552

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6589	0.0000	6.6589	3.3790	0.0000	3.3790			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
Total	5.7483	67.9396	38.7826	0.0620	6.6589	3.0727	9.7316	3.3790	2.8269	6.2059		6,344.8863	6,344.8863	1.9441		6,393.4879

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6589	0.0000	6.6589	3.3790	0.0000	3.3790			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
Total	5.7483	67.9396	38.7826	0.0620	6.6589	3.0727	9.7316	3.3790	2.8269	6.2059	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168
Total	0.1933	0.1163	1.5072	2.8800e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		286.3235	286.3235	0.0117		286.6168

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4708	10.0290	3.7106	0.0172	0.4137	0.1164	0.5300	0.1189	0.1113	0.2302		1,790.5383	1,790.5383	0.0566		1,791.9538
Worker	1.8167	1.0933	14.1677	0.0271	2.4013	0.0198	2.4211	0.6368	0.0183	0.6551		2,691.4413	2,691.4413	0.1103		2,694.1982
Total	2.2875	11.1223	17.8783	0.0443	2.8150	0.1362	2.9511	0.7557	0.1296	0.8853		4,481.9796	4,481.9796	0.1669		4,486.1520

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4708	10.0290	3.7106	0.0172	0.4137	0.1164	0.5300	0.1189	0.1113	0.2302		1,790.5383	1,790.5383	0.0566		1,791.9538
Worker	1.8167	1.0933	14.1677	0.0271	2.4013	0.0198	2.4211	0.6368	0.0183	0.6551		2,691.4413	2,691.4413	0.1103		2,694.1982
Total	2.2875	11.1223	17.8783	0.0443	2.8150	0.1362	2.9511	0.7557	0.1296	0.8853		4,481.9796	4,481.9796	0.1669		4,486.1520

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4030	9.4063	3.2847	0.0171	0.4137	0.0923	0.5060	0.1189	0.0883	0.2072		1,783.7509	1,783.7509	0.0493		1,784.9827
Worker	1.6336	0.9567	12.4128	0.0263	2.4013	0.0189	2.4203	0.6368	0.0175	0.6543		2,617.1436	2,617.1436	0.0972		2,619.5728
Total	2.0366	10.3630	15.6974	0.0434	2.8150	0.1112	2.9262	0.7557	0.1057	0.8615		4,400.8945	4,400.8945	0.1465		4,404.5555

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4030	9.4063	3.2847	0.0171	0.4137	0.0923	0.5060	0.1189	0.0883	0.2072		1,783.7509	1,783.7509	0.0493		1,784.9827
Worker	1.6336	0.9567	12.4128	0.0263	2.4013	0.0189	2.4203	0.6368	0.0175	0.6543		2,617.1436	2,617.1436	0.0972		2,619.5728
Total	2.0366	10.3630	15.6974	0.0434	2.8150	0.1112	2.9262	0.7557	0.1057	0.8615		4,400.8945	4,400.8945	0.1465		4,404.5555

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3443	8.8262	2.9454	0.0170	0.4137	0.0724	0.4862	0.1189	0.0693	0.1882		1,772.8312	1,772.8312	0.0435		1,773.9194
Worker	1.4969	0.8411	11.0007	0.0253	2.4013	0.0180	2.4194	0.6368	0.0166	0.6534		2,515.5488	2,515.5488	0.0849		2,517.6718
Total	1.8412	9.6673	13.9461	0.0423	2.8151	0.0905	2.9055	0.7558	0.0859	0.8417		4,288.3800	4,288.3800	0.1285		4,291.5912

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3443	8.8262	2.9454	0.0170	0.4137	0.0724	0.4862	0.1189	0.0693	0.1882		1,772.8312	1,772.8312	0.0435		1,773.9194
Worker	1.4969	0.8411	11.0007	0.0253	2.4013	0.0180	2.4194	0.6368	0.0166	0.6534		2,515.5488	2,515.5488	0.0849		2,517.6718
Total	1.8412	9.6673	13.9461	0.0423	2.8151	0.0905	2.9055	0.7558	0.0859	0.8417		4,288.3800	4,288.3800	0.1285		4,291.5912

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2681	8.0008	2.5832	0.0169	0.4138	0.0446	0.4584	0.1190	0.0427	0.1616		1,765.5776	1,765.5776	0.0363		1,766.4842
Worker	1.3939	0.7493	9.8912	0.0245	2.4013	0.0175	2.4188	0.6368	0.0161	0.6529		2,437.6288	2,437.6288	0.0744		2,439.4897
Total	1.6620	8.7501	12.4744	0.0414	2.8151	0.0621	2.8772	0.7558	0.0587	0.8145		4,203.2064	4,203.2064	0.1107		4,205.9739

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2681	8.0008	2.5832	0.0169	0.4138	0.0446	0.4584	0.1190	0.0427	0.1616		1,765.5776	1,765.5776	0.0363		1,766.4842
Worker	1.3939	0.7493	9.8912	0.0245	2.4013	0.0175	2.4188	0.6368	0.0161	0.6529		2,437.6288	2,437.6288	0.0744		2,439.4897
Total	1.6620	8.7501	12.4744	0.0414	2.8151	0.0621	2.8772	0.7558	0.0587	0.8145		4,203.2064	4,203.2064	0.1107		4,205.9739

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0598	0.7892	1.9500e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		194.4917	194.4917	5.9400e-003		194.6401
Total	0.1112	0.0598	0.7892	1.9500e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		194.4917	194.4917	5.9400e-003		194.6401

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0598	0.7892	1.9500e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		194.4917	194.4917	5.9400e-003		194.6401
Total	0.1112	0.0598	0.7892	1.9500e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		194.4917	194.4917	5.9400e-003		194.6401

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	235.7277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	235.9699	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2818	0.1515	1.9993	4.9500e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		492.7122	492.7122	0.0151		493.0884
Total	0.2818	0.1515	1.9993	4.9500e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		492.7122	492.7122	0.0151		493.0884

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	235.7277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	235.9699	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2818	0.1515	1.9993	4.9500e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		492.7122	492.7122	0.0151		493.0884
Total	0.2818	0.1515	1.9993	4.9500e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		492.7122	492.7122	0.0151		493.0884

4.0 Operational Detail - Mobile

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1020	13.6241	49.9565	0.1401	11.5733	0.1599	11.7331	3.0941	0.1504	3.2445		14,041.3217	14,041.3217	0.4784		14,053.2824
Unmitigated	4.1020	13.6241	49.9565	0.1401	11.5733	0.1599	11.7331	3.0941	0.1504	3.2445		14,041.3217	14,041.3217	0.4784		14,053.2824

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,408.96	1,466.68	1275.76	5,206,429	5,206,429
Total	1,408.96	1,466.68	1,275.76	5,206,429	5,206,429

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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
NaturalGas Unmitigated	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4535.12	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Total		0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.53512	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Total		0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Unmitigated	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.5521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2873	2.4551	1.0447	0.0157		0.1985	0.1985		0.1985	0.1985	0.0000	3,134.1177	3,134.1177	0.0601	0.0575	3,152.7421
Landscaping	0.3731	0.1417	12.2515	6.4000e-004		0.0674	0.0674		0.0674	0.0674		21.9874	21.9874	0.0214		22.5234
Total	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.5521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2873	2.4551	1.0447	0.0157		0.1985	0.1985		0.1985	0.1985	0.0000	3,134.1177	3,134.1177	0.0601	0.0575	3,152.7421
Landscaping	0.3731	0.1417	12.2515	6.4000e-004		0.0674	0.0674		0.0674	0.0674		21.9874	21.9874	0.0214		22.5234
Total	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

Serrano Village Proposed Land Use
El Dorado County AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.36	Acre	7.36	320,601.60	0
Single Family Housing	148.00	Dwelling Unit	28.67	414,400.00	453

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

Project Characteristics - PG&E. November 2015. Greenhouse Gas Emission Factors: Guidance for PG&E Customers.

Land Use - Per Project Description.

Construction Phase - Per Project Description

Grading - Per Project Description

Vehicle Trips - Passive parks not anticipated to generate vehicle trips.

Woodstoves - No woodstoves. 1 gas fireplace per DU.

Energy Use - 28% energy reduction for Title 24 per CEC.

Water Mitigation - Per Project Description.

Fleet Mix - No trips generated by passive park area.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	740.00	640.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	T24E	1,033.30	743.98
tblEnergyUse	T24NG	13,313.30	9,585.58
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	81.40	148.00
tblFireplaces	NumberNoFireplace	14.80	0.00
tblFireplaces	NumberWood	51.80	0.00
tblFleetMix	HHD	9.2700e-003	0.00
tblFleetMix	LDA	0.51	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.23	0.00
tblFleetMix	LHD1	0.04	0.00
tblFleetMix	LHD2	7.1510e-003	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

tblFleetMix	MCY	5.6380e-003	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	1.8010e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.5800e-003	0.00
tblFleetMix	SBUS	8.2600e-004	0.00
tblFleetMix	UBUS	1.2070e-003	0.00
tblGrading	AcresOfGrading	150.00	36.03
tblLandUse	BuildingSpaceSquareFeet	266,400.00	414,400.00
tblLandUse	LandUseSquareFeet	266,400.00	414,400.00
tblLandUse	LotAcreage	48.05	28.67
tblLandUse	Population	423.00	453.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

tblWoodstoves	NumberCatalytic	7.40	0.00
tblWoodstoves	NumberNoncatalytic	7.40	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9551	68.0836	40.1766	0.0683	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	6,841.0583	6,841.0583	1.9550	0.0000	6,861.4901
2018	4.8468	34.2086	32.6751	0.0675	2.8150	1.6128	4.4278	0.7557	1.5173	2.2731	0.0000	6,735.7234	6,735.7234	0.7853	0.0000	6,755.3555
2019	4.3232	31.1459	30.5006	0.0664	2.8151	1.3818	4.1969	0.7558	1.3001	2.0558	0.0000	6,603.2483	6,603.2483	0.7565	0.0000	6,622.1621
2020	236.2715	28.2755	28.7048	0.0656	2.8151	1.1801	3.9952	0.7558	1.1100	1.8658	0.0000	6,486.0654	6,486.0654	0.7301	0.0000	6,504.3177
Maximum	236.2715	68.0836	40.1766	0.0683	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	6,841.0583	6,841.0583	1.9550	0.0000	6,861.4901

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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	N2O	CO2e
Year	lb/day										lb/day					
2017	5.9551	68.0836	40.1766	0.0683	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	6,841.0583	6,841.0583	1.9550	0.0000	6,861.4901
2018	4.8468	34.2086	32.6751	0.0675	2.8150	1.6128	4.4278	0.7557	1.5173	2.2731	0.0000	6,735.7234	6,735.7234	0.7853	0.0000	6,755.3555
2019	4.3232	31.1459	30.5006	0.0664	2.8151	1.3818	4.1969	0.7558	1.3001	2.0558	0.0000	6,603.2483	6,603.2483	0.7565	0.0000	6,622.1621
2020	236.2715	28.2755	28.7048	0.0656	2.8151	1.1801	3.9952	0.7558	1.1100	1.8658	0.0000	6,486.0654	6,486.0654	0.7301	0.0000	6,504.3177
Maximum	236.2715	68.0836	40.1766	0.0683	18.2962	3.0748	21.1766	9.9917	2.8288	12.6417	0.0000	6,841.0583	6,841.0583	1.9550	0.0000	6,861.4901

[illegible]

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Energy	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Mobile	3.4487	14.9561	47.9911	0.1289	11.5733	0.1603	11.7336	3.0941	0.1509	3.2449		12,923.6834	12,923.6834	0.4648		12,935.3035
Total	16.5948	17.9708	61.4652	0.1479	11.5733	0.4600	12.0332	3.0941	0.4505	3.5446	0.0000	16,613.3316	16,613.3316	0.5565	0.0672	16,647.2828

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	N2O	CO2e
Category	lb/day										lb/day					
Area	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Energy	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Mobile	3.4487	14.9561	47.9911	0.1289	11.5733	0.1603	11.7336	3.0941	0.1509	3.2449		12,923.6834	12,923.6834	0.4648		12,935.3035
Total	16.5948	17.9708	61.4652	0.1479	11.5733	0.4600	12.0332	3.0941	0.4505	3.5446	0.0000	16,613.3316	16,613.3316	0.5565	0.0672	16,647.2828

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
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	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	Clear and Grub
2	Grading	Grading	6/15/2017	9/6/2017	5	60	
3	Building Construction	Building Construction	9/7/2017	2/19/2020	5	640	Underground and Building Construction
4	Paving	Paving	2/20/2020	3/18/2020	5	20	
5	Architectural Coating	Architectural Coating	3/19/2020	6/3/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.03

Residential Indoor: 839,160; Residential Outdoor: 279,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	188.00	68.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2017****Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.9500	3,894.9500	1.1934		3,924.7852

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769
Total	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.2 Site Preparation - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769
Total	0.1861	0.1296	1.2547	2.3400e-003	0.2299	1.8900e-003	0.2318	0.0610	1.7500e-003	0.0627		232.8311	232.8311	9.8300e-003		233.0769

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.3 Grading - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6589	0.0000	6.6589	3.3790	0.0000	3.3790			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
Total	5.7483	67.9396	38.7826	0.0620	6.6589	3.0727	9.7316	3.3790	2.8269	6.2059		6,344.8863	6,344.8863	1.9441		6,393.4879

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.3 Grading - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6589	0.0000	6.6589	3.3790	0.0000	3.3790			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
Total	5.7483	67.9396	38.7826	0.0620	6.6589	3.0727	9.7316	3.3790	2.8269	6.2059	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744
Total	0.2068	0.1440	1.3941	2.6100e-003	0.2555	2.1000e-003	0.2576	0.0678	1.9400e-003	0.0697		258.7012	258.7012	0.0109		258.9744

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4936	10.2895	4.2128	0.0169	0.4137	0.1184	0.5321	0.1189	0.1133	0.2322		1,758.2875	1,758.2875	0.0614		1,759.8234
Worker	1.9437	1.3533	13.1044	0.0245	2.4013	0.0198	2.4211	0.6368	0.0183	0.6551		2,431.7910	2,431.7910	0.1027		2,434.3589
Total	2.4373	11.6429	17.3172	0.0414	2.8150	0.1382	2.9532	0.7557	0.1316	0.8873		4,190.0785	4,190.0785	0.1642		4,194.1823

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2017**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4936	10.2895	4.2128	0.0169	0.4137	0.1184	0.5321	0.1189	0.1133	0.2322		1,758.2875	1,758.2875	0.0614		1,759.8234
Worker	1.9437	1.3533	13.1044	0.0245	2.4013	0.0198	2.4211	0.6368	0.0183	0.6551		2,431.7910	2,431.7910	0.1027		2,434.3589
Total	2.4373	11.6429	17.3172	0.0414	2.8150	0.1382	2.9532	0.7557	0.1316	0.8873		4,190.0785	4,190.0785	0.1642		4,194.1823

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4222	9.6347	3.7305	0.0168	0.4137	0.0940	0.5077	0.1189	0.0900	0.2089		1,750.7059	1,750.7059	0.0535		1,752.0424
Worker	1.7451	1.1838	11.3642	0.0238	2.4013	0.0189	2.4203	0.6368	0.0175	0.6543		2,364.0824	2,364.0824	0.0897		2,366.3248
Total	2.1673	10.8185	15.0946	0.0406	2.8150	0.1129	2.9280	0.7557	0.1074	0.8631		4,114.7883	4,114.7883	0.1432		4,118.3672

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2018**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4222	9.6347	3.7305	0.0168	0.4137	0.0940	0.5077	0.1189	0.0900	0.2089		1,750.7059	1,750.7059	0.0535		1,752.0424
Worker	1.7451	1.1838	11.3642	0.0238	2.4013	0.0189	2.4203	0.6368	0.0175	0.6543		2,364.0824	2,364.0824	0.0897		2,366.3248
Total	2.1673	10.8185	15.0946	0.0406	2.8150	0.1129	2.9280	0.7557	0.1074	0.8631		4,114.7883	4,114.7883	0.1432		4,118.3672

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3611	9.0266	3.3472	0.0167	0.4137	0.0739	0.4877	0.1189	0.0707	0.1897		1,739.6106	1,739.6106	0.0473		1,740.7924
Worker	1.6010	1.0405	9.9896	0.0228	2.4013	0.0180	2.4194	0.6368	0.0166	0.6534		2,272.0576	2,272.0576	0.0779		2,274.0062
Total	1.9620	10.0671	13.3368	0.0395	2.8151	0.0920	2.9070	0.7558	0.0874	0.8431		4,011.6681	4,011.6681	0.1252		4,014.7986

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2019**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3611	9.0266	3.3472	0.0167	0.4137	0.0739	0.4877	0.1189	0.0707	0.1897		1,739.6106	1,739.6106	0.0473		1,740.7924
Worker	1.6010	1.0405	9.9896	0.0228	2.4013	0.0180	2.4194	0.6368	0.0166	0.6534		2,272.0576	2,272.0576	0.0779		2,274.0062
Total	1.9620	10.0671	13.3368	0.0395	2.8151	0.0920	2.9070	0.7558	0.0874	0.8431		4,011.6681	4,011.6681	0.1252		4,014.7986

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2824	8.1633	2.9390	0.0166	0.4138	0.0456	0.4593	0.1190	0.0436	0.1625		1,731.5370	1,731.5370	0.0395		1,732.5244
Worker	1.4924	0.9261	8.9174	0.0221	2.4013	0.0175	2.4188	0.6368	0.0161	0.6529		2,201.4654	2,201.4654	0.0677		2,203.1589
Total	1.7747	9.0894	11.8563	0.0387	2.8151	0.0630	2.8781	0.7558	0.0597	0.8154		3,933.0023	3,933.0023	0.1072		3,935.6833

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.4 Building Construction - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2824	8.1633	2.9390	0.0166	0.4138	0.0456	0.4593	0.1190	0.0436	0.1625		1,731.5370	1,731.5370	0.0395		1,732.5244
Worker	1.4924	0.9261	8.9174	0.0221	2.4013	0.0175	2.4188	0.6368	0.0161	0.6529		2,201.4654	2,201.4654	0.0677		2,203.1589
Total	1.7747	9.0894	11.8563	0.0387	2.8151	0.0630	2.8781	0.7558	0.0597	0.8154		3,933.0023	3,933.0023	0.1072		3,935.6833

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.5 Paving - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1191	0.0739	0.7115	1.7600e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		175.6488	175.6488	5.4000e-003		175.7840
Total	0.1191	0.0739	0.7115	1.7600e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		175.6488	175.6488	5.4000e-003		175.7840

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.5 Paving - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1191	0.0739	0.7115	1.7600e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		175.6488	175.6488	5.4000e-003		175.7840
Total	0.1191	0.0739	0.7115	1.7600e-003	0.1916	1.3900e-003	0.1930	0.0508	1.2800e-003	0.0521		175.6488	175.6488	5.4000e-003		175.7840

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	235.7277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	235.9699	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3017	0.1872	1.8025	4.4700e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		444.9770	444.9770	0.0137		445.3194
Total	0.3017	0.1872	1.8025	4.4700e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		444.9770	444.9770	0.0137		445.3194

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	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	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	235.7277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	235.9699	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	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	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3017	0.1872	1.8025	4.4700e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		444.9770	444.9770	0.0137		445.3194
Total	0.3017	0.1872	1.8025	4.4700e-003	0.4854	3.5300e-003	0.4889	0.1287	3.2500e-003	0.1320		444.9770	444.9770	0.0137		445.3194

4.0 Operational Detail - Mobile

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4487	14.9561	47.9911	0.1289	11.5733	0.1603	11.7336	3.0941	0.1509	3.2449		12,923.6834	12,923.6834	0.4648		12,935.3035
Unmitigated	3.4487	14.9561	47.9911	0.1289	11.5733	0.1603	11.7336	3.0941	0.1509	3.2449		12,923.6834	12,923.6834	0.4648		12,935.3035

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,408.96	1,466.68	1275.76	5,206,429	5,206,429
Total	1,408.96	1,466.68	1,275.76	5,206,429	5,206,429

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	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Single Family Housing	0.512962	0.041542	0.225677	0.140684	0.035619	0.007151	0.016044	0.009270	0.001580	0.001207	0.005638	0.000826	0.001801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
NaturalGas Unmitigated	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4535.12	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Total		0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

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	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.53512	0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138
Total		0.0489	0.4179	0.1779	2.6700e-003		0.0338	0.0338		0.0338	0.0338		533.5432	533.5432	0.0102	9.7800e-003	536.7138

6.0 Area Detail**6.1 Mitigation Measures Area**

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

	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	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656
Unmitigated	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

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	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.5521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2873	2.4551	1.0447	0.0157		0.1985	0.1985		0.1985	0.1985	0.0000	3,134.1177	3,134.1177	0.0601	0.0575	3,152.7421
Landscaping	0.3731	0.1417	12.2515	6.4000e-004		0.0674	0.0674		0.0674	0.0674		21.9874	21.9874	0.0214		22.5234
Total	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

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	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.5521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2873	2.4551	1.0447	0.0157		0.1985	0.1985		0.1985	0.1985	0.0000	3,134.1177	3,134.1177	0.0601	0.0575	3,152.7421
Landscaping	0.3731	0.1417	12.2515	6.4000e-004		0.0674	0.0674		0.0674	0.0674		21.9874	21.9874	0.0214		22.5234
Total	13.0972	2.5968	13.2962	0.0163		0.2659	0.2659		0.2659	0.2659	0.0000	3,156.1050	3,156.1050	0.0815	0.0575	3,175.2656

7.0 Water Detail**7.1 Mitigation Measures Water**

Use Reclaimed Water

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Serrano Village Proposed Land Use - El Dorado County AQMD Air District, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Summary of Project-Related GHG Emissions

	<u>Approved Land Uses</u>			<u>Proposed Land Uses</u>	<u>Net Change</u>	<u>units</u>	<u>source</u>
Construction	Commercial/Retail	Residential	Total				
Calendar Year 2017	231	430	661	458	-203	MT CO2e	CalEEMod run for construction GHGs
Calendar Year 2018	240	857	1,097	808	-289	MT CO2e	CalEEMod run for construction GHGs
Calendar Year 2019		840	840	792	-48	MT CO2e	CalEEMod run for construction GHGs
Calendar Year 2020		197	197	148	-49		
Total			2,795	2,206	-589	MT CO2e	sum
Operational Life of Residential and Commercial Buildings			40	40		years	
Operational							
Area	1	164	165	119	-46	MT CO2e/year	CalEEMod run for operational GHGs
Energy	70	367	437	266	-171	MT CO2e/year	CalEEMod run for operational GHGs
Mobile	925	2,853	3,778	2,070	-1,708	MT CO2e/year	CalEEMod run for operational GHGs
Waste	34	79	113	57	-56	MT CO2e/year	CalEEMod run for operational GHGs
Water	5	32	37	24	-13	MT CO2e/year	CalEEMod run for operational GHGs
Total without construction emissions	1,035	3,495	4,530	2,536	-1,994	MT CO2e/year	sum
Summary							
Amortized construction emissions			69.9	55.2	-15	MT CO2e/year	amortization calculation
Total with amortized construction emiss and sequestration loss			4,600	2,591	-2,009	MT CO2e/year	sum

MEMORANDUM

Date: April 11, 2017
To: Andrea Howard, Parker Development
From: David B. Robinson, Fehr & Peers

Subject: Serrano Village J (LOT H), J5, J6 and J7

RS10-2829

Fehr & Peers has completed a trip generation evaluation of the land use changes proposed for Serrano Villages J5 and J6. This memorandum outlines the proposed land use modifications, our evaluation methodology, and findings.

Land Use Modifications

Table 1 compares approved and proposed land use for Serrano Village J5 and J6. Figure 1 shows the proposed changes. Villages J5 and J6 are located east of the Bass Lake Road/Serrano Parkway Intersection. As proposed, the Village J5 (Phase 2) neighborhood retail would be changed to single family residential and combined with Village J6.

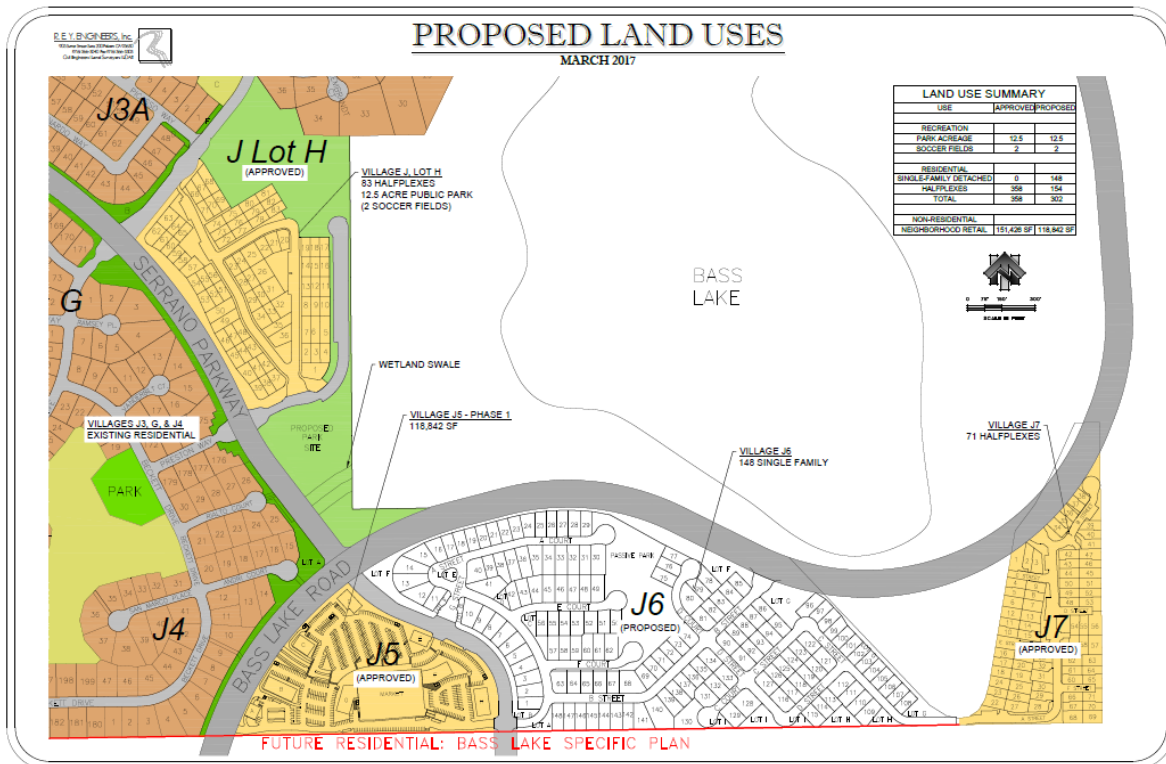
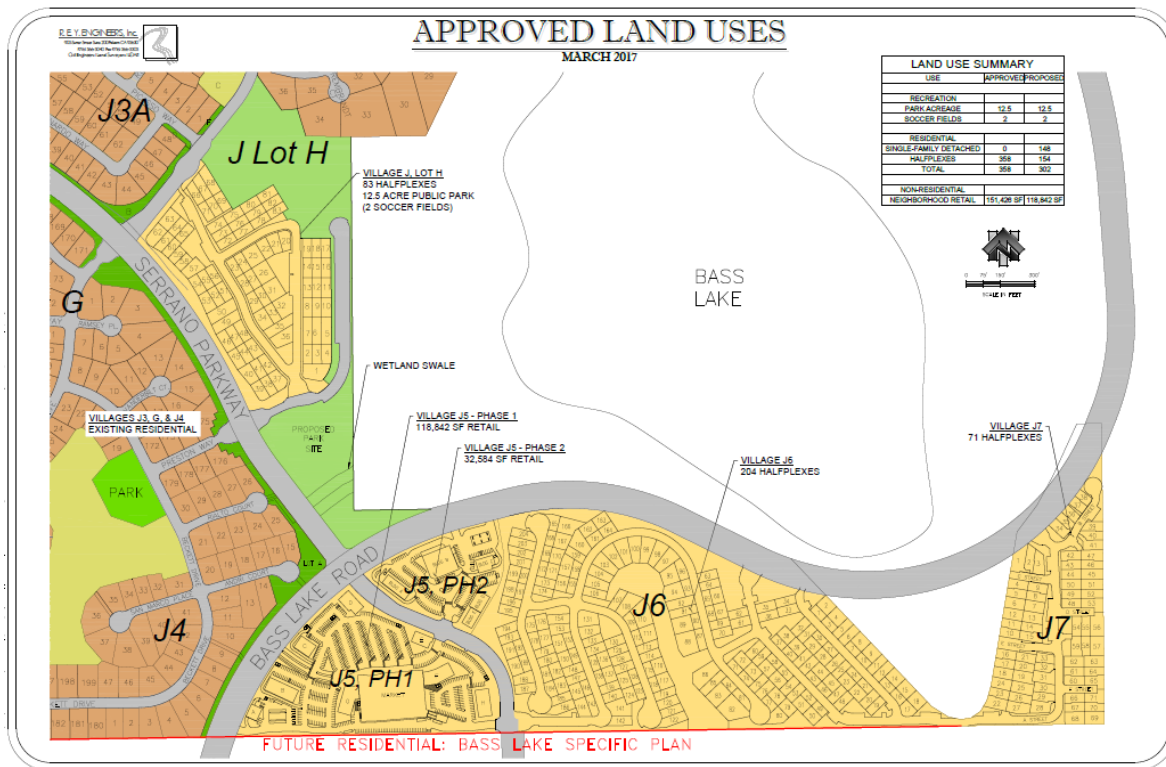
TABLE 1 PROPOSED LAND USE – SERRANO VILLAGES J5 AND J6		
Village	Approved Land Use	Proposed Land Use
J5	Neighborhood Retail (151,426 Square Feet)	Neighborhood Retail (118,842 Square Feet)
J6	Single Family Residential (204 Halfplex Units)	Single Family Residential (148 Dwelling Units)
Source: Fehr & Peers, 2017		

Evaluation Methodology

We prepared trip generation estimates for the approved and proposed land use summarized in Table 1, based on methodologies and trip generation rates presented in *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012), field-measured trip generation rates for the public park land use (for AM peak hour and daily conditions) and park use descriptions provided by El Dorado Hills CSD Recreation Director (for PM peak hour conditions).



Figure 1: Approved and Proposed Land Uses



Trip Generation Evaluation

Table 2 compares AM peak hour, PM peak hour, and daily trip generation for the approved and proposed land use. Detailed calculations and trip rate descriptions are included in Exhibit A. The comparison include trip generation for Village J (Lot H), Village J5, Village J6, and Village J7. As shown in Table 2, the proposed land use will result in fewer trips than the approved land use.

TABLE 2			
TRIP GENERATION – WITH PROPOSED LAND USE			
Land Use	Peak Hour		Daily
	AM	PM	
Approved	423	1,024	12,459
Proposed	361	886	10,674
Difference (Proposed – Approved)	- 62	- 139	- 1,785
Source: Fehr & Peers, 2017			



Exhibit A

Trip Generation Comparison - Serrano Villages J (Lot H), J5, J6, J7

Village	Land Use	ITE Code	Amount	Units	Peak Hour												Daily	
					AM						PM							
					Trip Rates			Trip Generation			Trip Rates			Trip Generation			Trip Rates	Trip Generation
					In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	Total	Total
Approved Land Use																		
J, Lot H	Single Family Residential ¹	210	83	DU	0.19	0.56	0.75	16	47	62	0.63	0.37	1.00	52	31	83	9.52	790
	Public Park ^{2,4}	-	12.5	Acres	0.60	0.48	1.08	8	6	14	6.26	2.81	9.07	78	35	113	36.55	457
J5	Neighborhood Retail ³	820	151.4	1,000 Square Feet	0.82	0.50	1.33	124	76	201	2.51	2.72	5.22	380	411	791	58.73	8,892
J6	Single Family Residential ¹	210	204	DU	0.19	0.56	0.75	38	115	153	0.63	0.37	1.00	129	75	204	9.52	1,942
J7	Single Family Residential ¹	210	71	DU	0.19	0.56	0.75	13	40	53	0.63	0.37	1.00	45	26	71	9.52	676
Subtotal								199	284	483				683	579	1,262		12,757
Passby Trips (30% Applied to Neighborhood Commercial)								30	30	60				119	119	238		299
Total (Net New Trips)								169	254	423				564	460	1,024		12,459
Proposed Land Use																		
J, Lot H	Single Family Residential ¹	210	83	DU	0.19	0.56	0.75	16	47	62	0.63	0.37	1.00	52	31	83	9.52	790
	Public Park ^{2,4}	-	12.5	Acres	0.60	0.48	1.08	8	6	14	6.26	2.81	9.07	78	35	113	36.55	457
J5	Neighborhood Retail ³	820	118.8	1,000 Square Feet	0.90	0.55	1.46	107	66	173	2.72	2.94	5.66	323	350	672	63.94	7,596
J6	Single Family Residential ¹	210	148	DU	0.19	0.56	0.75	28	83	111	0.63	0.37	1.00	93	55	148	9.52	1,409
J7	Single Family Residential ¹	210	71	DU	0.19	0.56	0.75	13	40	53	0.63	0.37	1.00	45	26	71	9.52	676
Subtotal								172	242	413				591	497	1,088		10,928
Passby Trips (30% Applied to Neighborhood Commercial)								26	26	52				101	101	202		254
Total (Net New Trips)								146	216	361				490	396	886		10,674
Difference (Proposed Land Use - Approved Land Use)								-24	-38	-62				-74	-64	-139		-1,785

NOTES:

¹Trip rates are from *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012)

²AM peak hour and daily trip generation for the public park land use is based on field measured trip generation at the Promontory (Alexandra Drive) and El Dorado Hills Community Pare (El Dorado Hills Boulevard at Harvard Way).

³Trip generation for Neighborhood Retail use the Fitted Curve Equations from the Shopping Center (820) AM, PM and Weekday curves from the Trip Generation Manual, *9th Edition* (Institute of Transportation Engineers, 2012). AM and PM are based on weekday, peak hour of adjacent street traffic, one hour between 7 and 9 a.m. and 4 and 6 p.m.

⁴PM peak hour trip generation for the public park land use is based use descriptions provided by El Dorado Hills CSD Recreation Director (March 4, 2015 email correspondence). Trip generation assumes four soccer teams practicing on large fields and three team practicing on small field, 20 players per team [(8x20 + 6x20) = 280 players] gives 280 players. No reduction for carpools was assumed, so the trip generation assumes 280 vehicles with inbound and outbound trips based on field meassured trip generation discussed in Footnote 2.