

Appendix F

Greenhouse Gas Model Outputs

Construction (Phase 1)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 1)

Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	54.00	1000sqft	0.00	54,000.00	0
Other Asphalt Surfaces	11.15	Acre	11.15	485,694.00	0
Health Club	8.64	1000sqft	0.00	8,640.00	0
Apartments Low Rise	170.00	Dwelling Unit	0.00	270,338.00	486
Single Family Housing	36.00	Dwelling Unit	0.00	126,748.00	103
Single Family Housing	390.00	Dwelling Unit	54.62	855,000.00	1115
Free-Standing Discount store	1.80	1000sqft	0.00	1,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 1: VLDR: 36 du, LDR: 150 du, MDR: 50 du, Senior LDR: 240 du, Senior MDR: 120 du, Office: 54 ksf, Retail: 1.8 ksf, Clubhouses: 8.64 ksf, Paving: 11.15 acres, 54.62 Acre site

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

Construction Phase - Construction would occur between 4/1/2022 to 10/30/2027.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Grading - Updated acres disturbed.

Trips and VMT - Default trips assumed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water two times daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	NumDays	1,110.00	656.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	75.00	120.00
tblConstructionPhase	NumDays	40.00	6.00
tblConstructionPhase	PhaseEndDate	8/26/2027	4/22/2027
tblConstructionPhase	PhaseEndDate	1/28/2027	5/21/2026
tblConstructionPhase	PhaseEndDate	10/27/2022	11/15/2023
tblConstructionPhase	PhaseEndDate	5/13/2027	11/5/2026

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

tblConstructionPhase	PhaseEndDate	5/26/2022	4/8/2022
tblConstructionPhase	PhaseStartDate	5/14/2027	11/6/2026
tblConstructionPhase	PhaseStartDate	10/28/2022	11/16/2023
tblConstructionPhase	PhaseStartDate	5/27/2022	6/1/2023
tblConstructionPhase	PhaseStartDate	1/29/2027	5/22/2026
tblGrading	AcresOfGrading	420.00	54.62
tblGrading	AcresOfGrading	3.00	54.62
tblLandUse	LandUseSquareFeet	170,000.00	270,338.00
tblLandUse	LandUseSquareFeet	64,800.00	126,748.00
tblLandUse	LandUseSquareFeet	702,000.00	855,000.00
tblLandUse	LotAcreage	1.24	0.00
tblLandUse	LotAcreage	0.20	0.00
tblLandUse	LotAcreage	10.63	0.00
tblLandUse	LotAcreage	11.69	0.00
tblLandUse	LotAcreage	126.62	54.62
tblLandUse	LotAcreage	0.04	0.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

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					
2022	0.1089	0.9097	1.1033	2.4600e-003	0.0533	0.0409	0.0941	0.0147	0.0376	0.0523	0.0000	216.3910	216.3910	0.0685	2.2000e-004	218.1682
2023	0.3335	2.9905	2.7665	6.8900e-003	0.4628	0.1202	0.5830	0.2214	0.1106	0.3320	0.0000	610.8425	610.8425	0.1707	8.0100e-003	617.4969
2024	0.3278	1.7737	2.9296	8.5100e-003	0.5185	0.0455	0.5640	0.1406	0.0421	0.1826	0.0000	789.2814	789.2814	0.0564	0.0613	808.9673
2025	0.3040	1.6830	2.7897	8.3000e-003	0.5165	0.0391	0.5556	0.1400	0.0361	0.1762	0.0000	769.1335	769.1335	0.0547	0.0593	788.1649
2026	1.5738	1.1192	1.8461	4.4300e-003	0.2169	0.0373	0.2542	0.0587	0.0345	0.0932	0.0000	404.7341	404.7341	0.0518	0.0227	412.8036
2027	2.7991	0.0675	0.1756	3.6000e-004	0.0251	2.8700e-003	0.0280	6.6900e-003	2.8600e-003	9.5500e-003	0.0000	32.2025	32.2025	1.4300e-003	6.1000e-004	32.4201
Maximum	2.7991	2.9905	2.9296	8.5100e-003	0.5185	0.1202	0.5830	0.2214	0.1106	0.3320	0.0000	789.2814	789.2814	0.1707	0.0613	808.9673

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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					
2022	0.1089	0.9097	1.1033	2.4600e-003	0.0274	0.0409	0.0683	7.5300e-003	0.0376	0.0452	0.0000	216.3907	216.3907	0.0685	2.2000e-004	218.1680
2023	0.3335	2.9905	2.7665	6.8900e-003	0.2482	0.1202	0.3683	0.1104	0.1106	0.2210	0.0000	610.8418	610.8418	0.1707	8.0100e-003	617.4963
2024	0.3278	1.7737	2.9296	8.5100e-003	0.5185	0.0455	0.5640	0.1406	0.0421	0.1826	0.0000	789.2813	789.2813	0.0564	0.0613	808.9672
2025	0.3040	1.6830	2.7897	8.3000e-003	0.5165	0.0391	0.5556	0.1400	0.0361	0.1762	0.0000	769.1333	769.1333	0.0547	0.0593	788.1647
2026	1.5738	1.1192	1.8461	4.4300e-003	0.2169	0.0373	0.2542	0.0587	0.0345	0.0932	0.0000	404.7339	404.7339	0.0518	0.0227	412.8034
2027	2.7991	0.0675	0.1756	3.6000e-004	0.0251	2.8700e-003	0.0280	6.6900e-003	2.8600e-003	9.5500e-003	0.0000	32.2025	32.2025	1.4300e-003	6.1000e-004	32.4201
Maximum	2.7991	2.9905	2.9296	8.5100e-003	0.5185	0.1202	0.5640	0.1406	0.1106	0.2210	0.0000	789.2813	789.2813	0.1707	0.0613	808.9672

	ROG	NOx	CO	SO2	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	13.41	0.00	11.57	20.30	0.00	13.97	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	4/1/2022	4/8/2022	5	6	
2	Grading	Grading	6/1/2023	11/15/2023	5	120	
3	Building Construction	Building Construction	11/16/2023	5/21/2026	5	656	
4	Paving	Paving	5/22/2026	11/5/2026	5	120	
5	Architectural Coating	Architectural Coating	11/6/2026	4/22/2027	5	120	
6	Trenching	Trenching	4/9/2022	5/31/2023	5	298	

Acres of Grading (Site Preparation Phase): 54.62

Acres of Grading (Grading Phase): 54.62

Acres of Paving: 11.15

Residential Indoor: 2,535,474; Residential Outdoor: 845,158; Non-Residential Indoor: 96,660; Non-Residential Outdoor: 32,220; Striped Parking Area:

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	118.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	588.00	154.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	12.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022**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					0.0470	0.0000	0.0470	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0384	0.0208	7.0000e-005		1.6900e-003	1.6900e-003		1.5500e-003	1.5500e-003	0.0000	5.7317	5.7317	1.8500e-003	0.0000	5.7780
Total	4.1000e-003	0.0384	0.0208	7.0000e-005	0.0470	1.6900e-003	0.0487	0.0131	1.5500e-003	0.0146	0.0000	5.7317	5.7317	1.8500e-003	0.0000	5.7780

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	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1389	0.1389	1.0000e-005	1.0000e-005	0.1407
Total	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1389	0.1389	1.0000e-005	1.0000e-005	0.1407

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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					0.0212	0.0000	0.0212	5.8800e-003	0.0000	5.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0384	0.0208	7.0000e-005		1.6900e-003	1.6900e-003		1.5500e-003	1.5500e-003	0.0000	5.7316	5.7316	1.8500e-003	0.0000	5.7780
Total	4.1000e-003	0.0384	0.0208	7.0000e-005	0.0212	1.6900e-003	0.0229	5.8800e-003	1.5500e-003	7.4300e-003	0.0000	5.7316	5.7316	1.8500e-003	0.0000	5.7780

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	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1389	0.1389	1.0000e-005	1.0000e-005	0.1407
Total	1.0000e-004	7.0000e-005	7.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1389	0.1389	1.0000e-005	1.0000e-005	0.1407

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.3 Grading - 2023**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					0.3903	0.0000	0.3903	0.2017	0.0000	0.2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2312	2.3181	1.7571	4.4200e-003		0.0946	0.0946		0.0870	0.0870	0.0000	387.9210	387.9210	0.1255	0.0000	391.0575
Total	0.2312	2.3181	1.7571	4.4200e-003	0.3903	0.0946	0.4849	0.2017	0.0870	0.2888	0.0000	387.9210	387.9210	0.1255	0.0000	391.0575

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	3.4500e-003	2.2700e-003	0.0244	5.0000e-005	5.7500e-003	4.0000e-005	5.7800e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.8443	4.8443	2.3000e-004	1.8000e-004	4.9050
Total	3.4500e-003	2.2700e-003	0.0244	5.0000e-005	5.7500e-003	4.0000e-005	5.7800e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.8443	4.8443	2.3000e-004	1.8000e-004	4.9050

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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					0.1756	0.0000	0.1756	0.0908	0.0000	0.0908	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2312	2.3181	1.7571	4.4200e-003		0.0946	0.0946		0.0870	0.0870	0.0000	387.9205	387.9205	0.1255	0.0000	391.0571
Total	0.2312	2.3181	1.7571	4.4200e-003	0.1756	0.0946	0.2702	0.0908	0.0870	0.1778	0.0000	387.9205	387.9205	0.1255	0.0000	391.0571

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	3.4500e-003	2.2700e-003	0.0244	5.0000e-005	5.7500e-003	4.0000e-005	5.7800e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.8443	4.8443	2.3000e-004	1.8000e-004	4.9050
Total	3.4500e-003	2.2700e-003	0.0244	5.0000e-005	5.7500e-003	4.0000e-005	5.7800e-003	1.5300e-003	3.0000e-005	1.5600e-003	0.0000	4.8443	4.8443	2.3000e-004	1.8000e-004	4.9050

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.4 Building Construction - 2023**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	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236
Total	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236

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	3.2300e-003	0.1118	0.0367	4.3000e-004	0.0133	6.9000e-004	0.0140	3.8400e-003	6.6000e-004	4.5000e-003	0.0000	41.0249	41.0249	1.6000e-004	6.1100e-003	42.8504
Worker	0.0300	0.0197	0.2128	4.6000e-004	0.0501	3.2000e-004	0.0504	0.0133	3.0000e-004	0.0136	0.0000	42.1994	42.1994	2.0100e-003	1.6100e-003	42.7279
Total	0.0333	0.1315	0.2495	8.9000e-004	0.0633	1.0100e-003	0.0643	0.0172	9.6000e-004	0.0181	0.0000	83.2243	83.2243	2.1700e-003	7.7200e-003	85.5783

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236
Total	9.7700e-003	0.0952	0.1264	1.7000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	15.2007	15.2007	4.9200e-003	0.0000	15.3236

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	3.2300e-003	0.1118	0.0367	4.3000e-004	0.0133	6.9000e-004	0.0140	3.8400e-003	6.6000e-004	4.5000e-003	0.0000	41.0249	41.0249	1.6000e-004	6.1100e-003	42.8504
Worker	0.0300	0.0197	0.2128	4.6000e-004	0.0501	3.2000e-004	0.0504	0.0133	3.0000e-004	0.0136	0.0000	42.1994	42.1994	2.0100e-003	1.6100e-003	42.7279
Total	0.0333	0.1315	0.2495	8.9000e-004	0.0633	1.0100e-003	0.0643	0.0172	9.6000e-004	0.0181	0.0000	83.2243	83.2243	2.1700e-003	7.7200e-003	85.5783

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.4 Building Construction - 2024**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	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5011	124.5011	0.0403	0.0000	125.5078
Total	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5011	124.5011	0.0403	0.0000	125.5078

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	0.0255	0.9034	0.2927	3.4500e-003	0.1086	5.5800e-003	0.1142	0.0315	5.3400e-003	0.0368	0.0000	330.4689	330.4689	1.2200e-003	0.0492	345.1524
Worker	0.2275	0.1436	1.6034	3.6500e-003	0.4099	2.4600e-003	0.4123	0.1091	2.2700e-003	0.1114	0.0000	334.3114	334.3114	0.0149	0.0122	338.3071
Total	0.2530	1.0470	1.8962	7.1000e-003	0.5185	8.0400e-003	0.5265	0.1406	7.6100e-003	0.1482	0.0000	664.7803	664.7803	0.0161	0.0613	683.4595

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5010	124.5010	0.0403	0.0000	125.5076
Total	0.0747	0.7267	1.0335	1.4200e-003		0.0375	0.0375		0.0345	0.0345	0.0000	124.5010	124.5010	0.0403	0.0000	125.5076

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	0.0255	0.9034	0.2927	3.4500e-003	0.1086	5.5800e-003	0.1142	0.0315	5.3400e-003	0.0368	0.0000	330.4689	330.4689	1.2200e-003	0.0492	345.1524
Worker	0.2275	0.1436	1.6034	3.6500e-003	0.4099	2.4600e-003	0.4123	0.1091	2.2700e-003	0.1114	0.0000	334.3114	334.3114	0.0149	0.0122	338.3071
Total	0.2530	1.0470	1.8962	7.1000e-003	0.5185	8.0400e-003	0.5265	0.1406	7.6100e-003	0.1482	0.0000	664.7803	664.7803	0.0161	0.0613	683.4595

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.4 Building Construction - 2025**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	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0944	124.0944	0.0401	0.0000	125.0978
Total	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0944	124.0944	0.0401	0.0000	125.0978

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	0.0246	0.8860	0.2853	3.3800e-003	0.1082	5.4600e-003	0.1137	0.0313	5.2300e-003	0.0366	0.0000	323.1747	323.1747	1.1700e-003	0.0480	337.5094
Worker	0.2109	0.1280	1.4786	3.5100e-003	0.4083	2.3200e-003	0.4106	0.1087	2.1400e-003	0.1108	0.0000	321.8644	321.8644	0.0134	0.0113	325.5577
Total	0.2355	1.0140	1.7639	6.8900e-003	0.5165	7.7800e-003	0.5243	0.1400	7.3700e-003	0.1474	0.0000	645.0391	645.0391	0.0146	0.0593	663.0671

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0942	124.0942	0.0401	0.0000	125.0976
Total	0.0685	0.6689	1.0258	1.4100e-003		0.0313	0.0313		0.0288	0.0288	0.0000	124.0942	124.0942	0.0401	0.0000	125.0976

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	0.0246	0.8860	0.2853	3.3800e-003	0.1082	5.4600e-003	0.1137	0.0313	5.2300e-003	0.0366	0.0000	323.1747	323.1747	1.1700e-003	0.0480	337.5094
Worker	0.2109	0.1280	1.4786	3.5100e-003	0.4083	2.3200e-003	0.4106	0.1087	2.1400e-003	0.1108	0.0000	321.8644	321.8644	0.0134	0.0113	325.5577
Total	0.2355	1.0140	1.7639	6.8900e-003	0.5165	7.7800e-003	0.5243	0.1400	7.3700e-003	0.1474	0.0000	645.0391	645.0391	0.0146	0.0593	663.0671

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.4 Building Construction - 2026**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	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0212	48.0212	0.0155	0.0000	48.4095
Total	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0212	48.0212	0.0155	0.0000	48.4095

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	9.2500e-003	0.3375	0.1084	1.2800e-003	0.0419	2.0700e-003	0.0439	0.0121	1.9800e-003	0.0141	0.0000	122.7530	122.7530	4.4000e-004	0.0182	128.1903
Worker	0.0761	0.0446	0.5327	1.3200e-003	0.1580	8.5000e-004	0.1589	0.0421	7.8000e-004	0.0428	0.0000	120.5917	120.5917	4.7300e-003	4.0800e-003	121.9260
Total	0.0854	0.3821	0.6411	2.6000e-003	0.1999	2.9200e-003	0.2028	0.0542	2.7600e-003	0.0569	0.0000	243.3447	243.3447	5.1700e-003	0.0223	250.1163

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0211	48.0211	0.0155	0.0000	48.4094
Total	0.0265	0.2589	0.3970	5.5000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	48.0211	48.0211	0.0155	0.0000	48.4094

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	9.2500e-003	0.3375	0.1084	1.2800e-003	0.0419	2.0700e-003	0.0439	0.0121	1.9800e-003	0.0141	0.0000	122.7530	122.7530	4.4000e-004	0.0182	128.1903
Worker	0.0761	0.0446	0.5327	1.3200e-003	0.1580	8.5000e-004	0.1589	0.0421	7.8000e-004	0.0428	0.0000	120.5917	120.5917	4.7300e-003	4.0800e-003	121.9260
Total	0.0854	0.3821	0.6411	2.6000e-003	0.1999	2.9200e-003	0.2028	0.0542	2.7600e-003	0.0569	0.0000	243.3447	243.3447	5.1700e-003	0.0223	250.1163

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.5 Paving - 2026**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	0.0452	0.4429	0.7023	1.0700e-003		0.0208	0.0208		0.0192	0.0192	0.0000	93.5639	93.5639	0.0303	0.0000	94.3204
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0598	0.4429	0.7023	1.0700e-003		0.0208	0.0208		0.0192	0.0192	0.0000	93.5639	93.5639	0.0303	0.0000	94.3204

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	2.1500e-003	1.2600e-003	0.0151	4.0000e-005	4.4700e-003	2.0000e-005	4.4900e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4114	3.4114	1.3000e-004	1.2000e-004	3.4491
Total	2.1500e-003	1.2600e-003	0.0151	4.0000e-005	4.4700e-003	2.0000e-005	4.4900e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4114	3.4114	1.3000e-004	1.2000e-004	3.4491

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.0452	0.4429	0.7023	1.0700e-003		0.0208	0.0208		0.0192	0.0192	0.0000	93.5638	93.5638	0.0303	0.0000	94.3203
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0598	0.4429	0.7023	1.0700e-003		0.0208	0.0208		0.0192	0.0192	0.0000	93.5638	93.5638	0.0303	0.0000	94.3203

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	2.1500e-003	1.2600e-003	0.0151	4.0000e-005	4.4700e-003	2.0000e-005	4.4900e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4114	3.4114	1.3000e-004	1.2000e-004	3.4491
Total	2.1500e-003	1.2600e-003	0.0151	4.0000e-005	4.4700e-003	2.0000e-005	4.4900e-003	1.1900e-003	2.0000e-005	1.2100e-003	0.0000	3.4114	3.4114	1.3000e-004	1.2000e-004	3.4491

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.6 Architectural Coating - 2026**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	1.3893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180
Total	1.3939	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180

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	6.0500e-003	3.5500e-003	0.0423	1.0000e-004	0.0126	7.0000e-005	0.0126	3.3400e-003	6.0000e-005	3.4000e-003	0.0000	9.5843	9.5843	3.8000e-004	3.2000e-004	9.6904
Total	6.0500e-003	3.5500e-003	0.0423	1.0000e-004	0.0126	7.0000e-005	0.0126	3.3400e-003	6.0000e-005	3.4000e-003	0.0000	9.5843	9.5843	3.8000e-004	3.2000e-004	9.6904

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	1.3893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5600e-003	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180
Total	1.3939	0.0306	0.0482	8.0000e-005		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	6.8087	6.8087	3.7000e-004	0.0000	6.8180

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	6.0500e-003	3.5500e-003	0.0423	1.0000e-004	0.0126	7.0000e-005	0.0126	3.3400e-003	6.0000e-005	3.4000e-003	0.0000	9.5843	9.5843	3.8000e-004	3.2000e-004	9.6904
Total	6.0500e-003	3.5500e-003	0.0423	1.0000e-004	0.0126	7.0000e-005	0.0126	3.3400e-003	6.0000e-005	3.4000e-003	0.0000	9.5843	9.5843	3.8000e-004	3.2000e-004	9.6904

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.6 Architectural Coating - 2027**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	2.7786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359
Total	2.7877	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359

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	0.0113	6.4200e-003	0.0792	2.0000e-004	0.0251	1.3000e-004	0.0252	6.6900e-003	1.2000e-004	6.8000e-003	0.0000	18.5852	18.5852	6.9000e-004	6.1000e-004	18.7842
Total	0.0113	6.4200e-003	0.0792	2.0000e-004	0.0251	1.3000e-004	0.0252	6.6900e-003	1.2000e-004	6.8000e-003	0.0000	18.5852	18.5852	6.9000e-004	6.1000e-004	18.7842

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	2.7786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359
Total	2.7877	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359

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	0.0113	6.4200e-003	0.0792	2.0000e-004	0.0251	1.3000e-004	0.0252	6.6900e-003	1.2000e-004	6.8000e-003	0.0000	18.5852	18.5852	6.9000e-004	6.1000e-004	18.7842
Total	0.0113	6.4200e-003	0.0792	2.0000e-004	0.0251	1.3000e-004	0.0252	6.6900e-003	1.2000e-004	6.8000e-003	0.0000	18.5852	18.5852	6.9000e-004	6.1000e-004	18.7842

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.7 Trenching - 2022**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	0.1007	0.8685	1.0535	2.3400e-003		0.0392	0.0392		0.0360	0.0360	0.0000	205.2419	205.2419	0.0664	0.0000	206.9014
Total	0.1007	0.8685	1.0535	2.3400e-003		0.0392	0.0392		0.0360	0.0360	0.0000	205.2419	205.2419	0.0664	0.0000	206.9014

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	3.9400e-003	2.7000e-003	0.0282	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.2785	5.2785	2.7000e-004	2.1000e-004	5.3481
Total	3.9400e-003	2.7000e-003	0.0282	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.2785	5.2785	2.7000e-004	2.1000e-004	5.3481

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.1007	0.8685	1.0535	2.3400e-003		0.0392	0.0392		0.0360	0.0360	0.0000	205.2416	205.2416	0.0664	0.0000	206.9011
Total	0.1007	0.8685	1.0535	2.3400e-003		0.0392	0.0392		0.0360	0.0360	0.0000	205.2416	205.2416	0.0664	0.0000	206.9011

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	3.9400e-003	2.7000e-003	0.0282	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.2785	5.2785	2.7000e-004	2.1000e-004	5.3481
Total	3.9400e-003	2.7000e-003	0.0282	6.0000e-005	6.0700e-003	4.0000e-005	6.1100e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.2785	5.2785	2.7000e-004	2.1000e-004	5.3481

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

3.7 Trenching - 2023**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	0.0537	0.4422	0.5945	1.3300e-003		0.0193	0.0193		0.0177	0.0177	0.0000	116.7456	116.7456	0.0378	0.0000	117.6895
Total	0.0537	0.4422	0.5945	1.3300e-003		0.0193	0.0193		0.0177	0.0177	0.0000	116.7456	116.7456	0.0378	0.0000	117.6895

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	2.0700e-003	1.3600e-003	0.0147	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9066	2.9066	1.4000e-004	1.1000e-004	2.9430
Total	2.0700e-003	1.3600e-003	0.0147	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9066	2.9066	1.4000e-004	1.1000e-004	2.9430

Valley's Edge Specific Plan Project - Construction (Phase 1) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 8:44 AM

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	0.0537	0.4422	0.5945	1.3300e-003		0.0193	0.0193		0.0177	0.0177	0.0000	116.7454	116.7454	0.0378	0.0000	117.6894
Total	0.0537	0.4422	0.5945	1.3300e-003		0.0193	0.0193		0.0177	0.0177	0.0000	116.7454	116.7454	0.0378	0.0000	117.6894

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	2.0700e-003	1.3600e-003	0.0147	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9066	2.9066	1.4000e-004	1.1000e-004	2.9430
Total	2.0700e-003	1.3600e-003	0.0147	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9066	2.9066	1.4000e-004	1.1000e-004	2.9430

Construction (Phase 2)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 2)
Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	108.00	1000sqft	0.00	108,000.00	0
Other Asphalt Surfaces	16.66	Acre	16.66	725,709.60	0
Health Club	11.52	1000sqft	0.00	11,520.00	0
Apartments Low Rise	293.00	Dwelling Unit	0.00	467,201.00	838
Apartments Mid Rise	97.00	Dwelling Unit	0.00	87,700.00	277
Single Family Housing	84.00	Dwelling Unit	0.00	289,175.00	240
Single Family Housing	630.00	Dwelling Unit	99.28	1,385,171.00	1802
Free-Standing Discount store	7.20	1000sqft	0.00	7,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

Land Use - Phase 2: VLDR: 73 du, LDR: 250 du, MDR: 93 du, MHDR: 97 du, Senior VLDR: 11, Senior LDR: 380 du, Senior MDR: 200 du, Office: 108 ksf, Retail: 7.2 ksf, Clubhouses: 11.52 ksf, Paving: 16.66 acres. 99.28 Acre site.

Construction Phase - Construction would occur between 4/1/2027 to 10/30/2033.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Grading - Updated disturbed acres.

Trips and VMT - Default trips assumed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water twice daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstructionPhase	NumDays	220.00	221.00
tblConstructionPhase	NumDays	3,100.00	900.00
tblConstructionPhase	NumDays	310.00	221.00
tblConstructionPhase	NumDays	220.00	221.00
tblConstructionPhase	NumDays	120.00	44.00
tblConstructionPhase	PhaseEndDate	6/18/2042	10/28/2033
tblConstructionPhase	PhaseEndDate	10/10/2040	12/23/2032

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

tblConstructionPhase	PhaseEndDate	11/22/2028	4/5/2028
tblConstructionPhase	PhaseEndDate	8/14/2041	10/28/2033
tblConstructionPhase	PhaseEndDate	9/15/2027	6/1/2027
tblConstructionPhase	PhaseStartDate	8/15/2041	12/24/2032
tblConstructionPhase	PhaseStartDate	11/23/2028	7/13/2029
tblConstructionPhase	PhaseStartDate	9/16/2027	6/2/2027
tblConstructionPhase	PhaseStartDate	10/11/2040	12/24/2032
tblGrading	AcresOfGrading	773.50	99.28
tblGrading	AcresOfGrading	22.00	99.28
tblLandUse	LandUseSquareFeet	293,000.00	467,201.00
tblLandUse	LandUseSquareFeet	97,000.00	87,700.00
tblLandUse	LandUseSquareFeet	151,200.00	289,175.00
tblLandUse	LandUseSquareFeet	1,134,000.00	1,385,171.00
tblLandUse	LotAcreage	2.48	0.00
tblLandUse	LotAcreage	0.26	0.00
tblLandUse	LotAcreage	18.31	0.00
tblLandUse	LotAcreage	2.55	0.00
tblLandUse	LotAcreage	27.27	0.00
tblLandUse	LotAcreage	204.55	99.28
tblLandUse	LotAcreage	0.17	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	PhaseName		Trenching

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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					
2027	0.3610	3.1242	3.0622	8.1000e-003	0.7113	0.1253	0.8366	0.3408	0.1153	0.4561	0.0000	711.7864	711.7864	0.2275	3.1000e-004	717.5664
2028	0.2386	1.9462	2.3608	5.7900e-003	0.2676	0.0779	0.3455	0.1209	0.0717	0.1926	0.0000	508.9038	508.9038	0.1625	2.3000e-004	513.0355
2029	0.2435	1.5097	2.3887	7.3800e-003	0.4195	0.0389	0.4584	0.1137	0.0359	0.1495	0.0000	677.0982	677.0982	0.0760	0.0420	691.5016
2030	0.3729	1.9846	3.4151	0.0121	0.8896	0.0187	0.9083	0.2410	0.0181	0.2592	0.0000	1,123.9113	1,123.9113	0.0231	0.0875	1,150.5745
2031	0.3514	1.9608	3.3214	0.0119	0.8896	0.0184	0.9080	0.2410	0.0178	0.2589	0.0000	1,105.0301	1,105.0301	0.0219	0.0857	1,131.1236
2032	0.5345	1.9256	3.2366	0.0116	0.8760	0.0185	0.8945	0.2374	0.0180	0.2553	0.0000	1,076.3849	1,076.3849	0.0208	0.0827	1,101.5380
2033	7.4088	0.7719	1.9082	3.6400e-003	0.1247	0.0283	0.1530	0.0332	0.0283	0.0615	0.0000	317.4995	317.4995	0.0130	2.3300e-003	318.5166
Maximum	7.4088	3.1242	3.4151	0.0121	0.8896	0.1253	0.9083	0.3408	0.1153	0.4561	0.0000	1,123.9113	1,123.9113	0.2275	0.0875	1,150.5745

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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					
2027	0.3610	3.1242	3.0622	8.1000e-003	0.3271	0.1253	0.4524	0.1553	0.1153	0.2706	0.0000	711.7856	711.7856	0.2275	3.1000e-004	717.5656
2028	0.2386	1.9462	2.3608	5.7900e-003	0.1260	0.0779	0.2039	0.0559	0.0717	0.1276	0.0000	508.9032	508.9032	0.1625	2.3000e-004	513.0349
2029	0.2435	1.5097	2.3887	7.3800e-003	0.4195	0.0389	0.4584	0.1137	0.0359	0.1495	0.0000	677.0979	677.0979	0.0760	0.0420	691.5014
2030	0.3729	1.9846	3.4151	0.0121	0.8896	0.0187	0.9083	0.2410	0.0181	0.2592	0.0000	1,123.9111	1,123.9111	0.0231	0.0875	1,150.5743
2031	0.3514	1.9608	3.3214	0.0119	0.8896	0.0184	0.9080	0.2410	0.0178	0.2589	0.0000	1,105.0299	1,105.0299	0.0219	0.0857	1,131.1234
2032	0.5345	1.9256	3.2366	0.0116	0.8760	0.0185	0.8945	0.2374	0.0180	0.2553	0.0000	1,076.3847	1,076.3847	0.0208	0.0827	1,101.5378
2033	7.4088	0.7719	1.9082	3.6400e-003	0.1247	0.0283	0.1530	0.0332	0.0283	0.0615	0.0000	317.4992	317.4992	0.0130	2.3300e-003	318.5163
Maximum	7.4088	3.1242	3.4151	0.0121	0.8896	0.1253	0.9083	0.2410	0.1153	0.2706	0.0000	1,123.9111	1,123.9111	0.2275	0.0875	1,150.5743

	ROG	NOx	CO	SO2	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	12.58	0.00	11.67	18.87	0.00	15.35	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	4/1/2027	6/1/2027	5	44	
2	Grading	Grading	6/2/2027	4/5/2028	5	221	
3	Building Construction	Building Construction	7/13/2029	12/23/2032	5	900	
4	Paving	Paving	12/24/2032	10/28/2033	5	221	
5	Architectural Coating	Architectural Coating	12/24/2032	10/28/2033	5	221	
6	Trenching	Trenching	6/2/2027	7/12/2029	5	552	

Acres of Grading (Site Preparation Phase): 99.28

Acres of Grading (Grading Phase): 99.28

Acres of Paving: 16.66

Residential Indoor: 4,514,225; Residential Outdoor: 1,504,742; Non-Residential Indoor: 190,080; Non-Residential Outdoor: 63,360; Striped Parking Area:

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	204.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1,020.00	258.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	12.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027**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					0.1851	0.0000	0.1851	0.0785	0.0000	0.0785	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2093	0.1364	4.8000e-004		8.6500e-003	8.6500e-003		7.9600e-003	7.9600e-003	0.0000	42.1721	42.1721	0.0136	0.0000	42.5131
Total	0.0248	0.2093	0.1364	4.8000e-004	0.1851	8.6500e-003	0.1938	0.0785	7.9600e-003	0.0865	0.0000	42.1721	42.1721	0.0136	0.0000	42.5131

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	6.3000e-004	3.6000e-004	4.4300e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0395	1.0395	4.0000e-005	3.0000e-005	1.0506
Total	6.3000e-004	3.6000e-004	4.4300e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0395	1.0395	4.0000e-005	3.0000e-005	1.0506

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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					0.0833	0.0000	0.0833	0.0353	0.0000	0.0353	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2093	0.1364	4.8000e-004		8.6500e-003	8.6500e-003		7.9600e-003	7.9600e-003	0.0000	42.1720	42.1720	0.0136	0.0000	42.5130
Total	0.0248	0.2093	0.1364	4.8000e-004	0.0833	8.6500e-003	0.0920	0.0353	7.9600e-003	0.0433	0.0000	42.1720	42.1720	0.0136	0.0000	42.5130

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	6.3000e-004	3.6000e-004	4.4300e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0395	1.0395	4.0000e-005	3.0000e-005	1.0506
Total	6.3000e-004	3.6000e-004	4.4300e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0395	1.0395	4.0000e-005	3.0000e-005	1.0506

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.3 Grading - 2027**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					0.5133	0.0000	0.5133	0.2589	0.0000	0.2589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2607	2.3940	2.0502	5.6300e-003		0.0959	0.0959		0.0882	0.0882	0.0000	494.2355	494.2355	0.1599	0.0000	498.2317
Total	0.2607	2.3940	2.0502	5.6300e-003	0.5133	0.0959	0.6092	0.2589	0.0882	0.3472	0.0000	494.2355	494.2355	0.1599	0.0000	498.2317

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	3.3000e-003	1.8700e-003	0.0231	6.0000e-005	7.3300e-003	4.0000e-005	7.3600e-003	1.9500e-003	3.0000e-005	1.9800e-003	0.0000	5.4220	5.4220	2.0000e-004	1.8000e-004	5.4801
Total	3.3000e-003	1.8700e-003	0.0231	6.0000e-005	7.3300e-003	4.0000e-005	7.3600e-003	1.9500e-003	3.0000e-005	1.9800e-003	0.0000	5.4220	5.4220	2.0000e-004	1.8000e-004	5.4801

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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					0.2310	0.0000	0.2310	0.1165	0.0000	0.1165	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2607	2.3940	2.0502	5.6300e-003		0.0959	0.0959		0.0882	0.0882	0.0000	494.2349	494.2349	0.1599	0.0000	498.2311
Total	0.2607	2.3940	2.0502	5.6300e-003	0.2310	0.0959	0.3269	0.1165	0.0882	0.2047	0.0000	494.2349	494.2349	0.1599	0.0000	498.2311

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	3.3000e-003	1.8700e-003	0.0231	6.0000e-005	7.3300e-003	4.0000e-005	7.3600e-003	1.9500e-003	3.0000e-005	1.9800e-003	0.0000	5.4220	5.4220	2.0000e-004	1.8000e-004	5.4801
Total	3.3000e-003	1.8700e-003	0.0231	6.0000e-005	7.3300e-003	4.0000e-005	7.3600e-003	1.9500e-003	3.0000e-005	1.9800e-003	0.0000	5.4220	5.4220	2.0000e-004	1.8000e-004	5.4801

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.3 Grading - 2028**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					0.2574	0.0000	0.2574	0.1182	0.0000	0.1182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1159	1.0640	0.9112	2.5000e-003		0.0426	0.0426		0.0392	0.0392	0.0000	219.6602	219.6602	0.0710	0.0000	221.4363
Total	0.1159	1.0640	0.9112	2.5000e-003	0.2574	0.0426	0.3000	0.1182	0.0392	0.1574	0.0000	219.6602	219.6602	0.0710	0.0000	221.4363

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	1.3700e-003	7.6000e-004	9.6700e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.3409	2.3409	8.0000e-005	7.0000e-005	2.3652
Total	1.3700e-003	7.6000e-004	9.6700e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.3409	2.3409	8.0000e-005	7.0000e-005	2.3652

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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					0.1158	0.0000	0.1158	0.0532	0.0000	0.0532	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1159	1.0640	0.9112	2.5000e-003		0.0426	0.0426		0.0392	0.0392	0.0000	219.6600	219.6600	0.0710	0.0000	221.4360
Total	0.1159	1.0640	0.9112	2.5000e-003	0.1158	0.0426	0.1585	0.0532	0.0392	0.0924	0.0000	219.6600	219.6600	0.0710	0.0000	221.4360

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	1.3700e-003	7.6000e-004	9.6700e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.3409	2.3409	8.0000e-005	7.0000e-005	2.3652
Total	1.3700e-003	7.6000e-004	9.6700e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.3409	2.3409	8.0000e-005	7.0000e-005	2.3652

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.4 Building Construction - 2029**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	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0058	58.0058	0.0188	0.0000	58.4748
Total	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0058	58.0058	0.0188	0.0000	58.4748

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	0.0174	0.6554	0.2111	2.4500e-003	0.0847	3.9400e-003	0.0887	0.0245	3.7600e-003	0.0283	0.0000	234.1805	234.1805	8.1000e-004	0.0346	244.5227
Worker	0.1294	0.0705	0.9290	2.5300e-003	0.3311	1.4500e-003	0.3325	0.0881	1.3400e-003	0.0895	0.0000	231.6006	231.6006	7.6300e-003	7.2400e-003	233.9480
Total	0.1467	0.7259	1.1400	4.9800e-003	0.4158	5.3900e-003	0.4212	0.1127	5.1000e-003	0.1178	0.0000	465.7811	465.7811	8.4400e-003	0.0419	478.4707

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0057	58.0057	0.0188	0.0000	58.4747
Total	0.0320	0.3127	0.4795	6.6000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	58.0057	58.0057	0.0188	0.0000	58.4747

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	0.0174	0.6554	0.2111	2.4500e-003	0.0847	3.9400e-003	0.0887	0.0245	3.7600e-003	0.0283	0.0000	234.1805	234.1805	8.1000e-004	0.0346	244.5227
Worker	0.1294	0.0705	0.9290	2.5300e-003	0.3311	1.4500e-003	0.3325	0.0881	1.3400e-003	0.0895	0.0000	231.6006	231.6006	7.6300e-003	7.2400e-003	233.9480
Total	0.1467	0.7259	1.1400	4.9800e-003	0.4158	5.3900e-003	0.4212	0.1127	5.1000e-003	0.1178	0.0000	465.7811	465.7811	8.4400e-003	0.0419	478.4707

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.4 Building Construction - 2030**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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992

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	0.0365	1.3870	0.4479	5.1400e-003	0.1813	8.2700e-003	0.1896	0.0525	7.9100e-003	0.0604	0.0000	492.2469	492.2469	1.7000e-003	0.0728	513.9691
Worker	0.2567	0.1382	1.8882	5.2700e-003	0.7083	2.9000e-003	0.7112	0.1886	2.6700e-003	0.1912	0.0000	483.1247	483.1247	0.0150	0.0148	487.9061
Total	0.2932	1.5251	2.3361	0.0104	0.8896	0.0112	0.9007	0.2410	0.0106	0.2516	0.0000	975.3717	975.3717	0.0167	0.0875	1,001.8752

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991

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	0.0365	1.3870	0.4479	5.1400e-003	0.1813	8.2700e-003	0.1896	0.0525	7.9100e-003	0.0604	0.0000	492.2469	492.2469	1.7000e-003	0.0728	513.9691
Worker	0.2567	0.1382	1.8882	5.2700e-003	0.7083	2.9000e-003	0.7112	0.1886	2.6700e-003	0.1912	0.0000	483.1247	483.1247	0.0150	0.0148	487.9061
Total	0.2932	1.5251	2.3361	0.0104	0.8896	0.0112	0.9007	0.2410	0.0106	0.2516	0.0000	975.3717	975.3717	0.0167	0.0875	1,001.8752

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.4 Building Construction - 2031**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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5396	148.5396	6.3800e-003	0.0000	148.6992

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	0.0359	1.3749	0.4453	5.0600e-003	0.1813	8.1500e-003	0.1894	0.0525	7.7900e-003	0.0603	0.0000	484.5100	484.5100	1.6800e-003	0.0716	505.8811
Worker	0.2358	0.1264	1.7971	5.1500e-003	0.7083	2.7000e-003	0.7110	0.1886	2.4800e-003	0.1910	0.0000	471.9804	471.9804	0.0138	0.0142	476.5433
Total	0.2717	1.5013	2.2424	0.0102	0.8896	0.0109	0.9004	0.2410	0.0103	0.2513	0.0000	956.4905	956.4905	0.0155	0.0857	982.4243

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991
Total	0.0797	0.4594	1.0790	1.7300e-003		7.5400e-003	7.5400e-003		7.5400e-003	7.5400e-003	0.0000	148.5395	148.5395	6.3800e-003	0.0000	148.6991

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	0.0359	1.3749	0.4453	5.0600e-003	0.1813	8.1500e-003	0.1894	0.0525	7.7900e-003	0.0603	0.0000	484.5100	484.5100	1.6800e-003	0.0716	505.8811
Worker	0.2358	0.1264	1.7971	5.1500e-003	0.7083	2.7000e-003	0.7110	0.1886	2.4800e-003	0.1910	0.0000	471.9804	471.9804	0.0138	0.0142	476.5433
Total	0.2717	1.5013	2.2424	0.0102	0.8896	0.0109	0.9004	0.2410	0.0103	0.2513	0.0000	956.4905	956.4905	0.0155	0.0857	982.4243

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.4 Building Construction - 2032**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	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6940	145.6940	6.2600e-003	0.0000	145.8506
Total	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6940	145.6940	6.2600e-003	0.0000	145.8506

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	0.0347	1.3383	0.4355	4.9000e-003	0.1778	7.8800e-003	0.1857	0.0515	7.5400e-003	0.0590	0.0000	468.5694	468.5694	1.6300e-003	0.0692	489.2325
Worker	0.2147	0.1151	1.6892	4.9400e-003	0.6947	2.4700e-003	0.6972	0.1849	2.2700e-003	0.1872	0.0000	453.2175	453.2175	0.0126	0.0134	457.5219
Total	0.2494	1.4534	2.1247	9.8400e-003	0.8725	0.0104	0.8829	0.2364	9.8100e-003	0.2462	0.0000	921.7869	921.7869	0.0142	0.0826	946.7544

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6939	145.6939	6.2600e-003	0.0000	145.8504
Total	0.0782	0.4506	1.0584	1.7000e-003		7.3900e-003	7.3900e-003		7.3900e-003	7.3900e-003	0.0000	145.6939	145.6939	6.2600e-003	0.0000	145.8504

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	0.0347	1.3383	0.4355	4.9000e-003	0.1778	7.8800e-003	0.1857	0.0515	7.5400e-003	0.0590	0.0000	468.5694	468.5694	1.6300e-003	0.0692	489.2325
Worker	0.2147	0.1151	1.6892	4.9400e-003	0.6947	2.4700e-003	0.6972	0.1849	2.2700e-003	0.1872	0.0000	453.2175	453.2175	0.0126	0.0134	457.5219
Total	0.2494	1.4534	2.1247	9.8400e-003	0.8725	0.0104	0.8829	0.2364	9.8100e-003	0.2462	0.0000	921.7869	921.7869	0.0142	0.0826	946.7544

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.5 Paving - 2032**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	3.2100e-003	0.0176	0.0379	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6124	5.6124	2.6000e-004	0.0000	5.6189
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0176	0.0379	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6124	5.6124	2.6000e-004	0.0000	5.6189

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	7.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1458	0.1458	0.0000	0.0000	0.1472
Total	7.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1458	0.1458	0.0000	0.0000	0.1472

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	3.2100e-003	0.0176	0.0379	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6124	5.6124	2.6000e-004	0.0000	5.6189
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0176	0.0379	7.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	5.6124	5.6124	2.6000e-004	0.0000	5.6189

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	7.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1458	0.1458	0.0000	0.0000	0.1472
Total	7.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1458	0.1458	0.0000	0.0000	0.1472

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.5 Paving - 2033**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	0.1150	0.6299	1.3592	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.1100	201.1100	9.3700e-003	0.0000	201.3442
Paving	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1362	0.6299	1.3592	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.1100	201.1100	9.3700e-003	0.0000	201.3442

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	2.2900e-003	1.2400e-003	0.0187	6.0000e-005	8.0100e-003	3.0000e-005	8.0300e-003	2.1300e-003	2.0000e-005	2.1600e-003	0.0000	5.1243	5.1243	1.3000e-004	1.5000e-004	5.1722
Total	2.2900e-003	1.2400e-003	0.0187	6.0000e-005	8.0100e-003	3.0000e-005	8.0300e-003	2.1300e-003	2.0000e-005	2.1600e-003	0.0000	5.1243	5.1243	1.3000e-004	1.5000e-004	5.1722

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.1150	0.6299	1.3592	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.1097	201.1097	9.3700e-003	0.0000	201.3440
Paving	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1362	0.6299	1.3592	2.3400e-003		0.0250	0.0250		0.0250	0.0250	0.0000	201.1097	201.1097	9.3700e-003	0.0000	201.3440

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	2.2900e-003	1.2400e-003	0.0187	6.0000e-005	8.0100e-003	3.0000e-005	8.0300e-003	2.1300e-003	2.0000e-005	2.1600e-003	0.0000	5.1243	5.1243	1.3000e-004	1.5000e-004	5.1722
Total	2.2900e-003	1.2400e-003	0.0187	6.0000e-005	8.0100e-003	3.0000e-005	8.0300e-003	2.1300e-003	2.0000e-005	2.1600e-003	0.0000	5.1243	5.1243	1.3000e-004	1.5000e-004	5.1722

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.6 Architectural Coating - 2032**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	0.2014					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223
Total	0.2020	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223

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	1.0100e-003	5.4000e-004	7.9200e-003	2.0000e-005	3.2600e-003	1.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.1245	2.1245	6.0000e-005	6.0000e-005	2.1446
Total	1.0100e-003	5.4000e-004	7.9200e-003	2.0000e-005	3.2600e-003	1.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.1245	2.1245	6.0000e-005	6.0000e-005	2.1446

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.2014					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223
Total	0.2020	3.4300e-003	7.1900e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0213	1.0213	4.0000e-005	0.0000	1.0223

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	1.0100e-003	5.4000e-004	7.9200e-003	2.0000e-005	3.2600e-003	1.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.1245	2.1245	6.0000e-005	6.0000e-005	2.1446
Total	1.0100e-003	5.4000e-004	7.9200e-003	2.0000e-005	3.2600e-003	1.0000e-005	3.2700e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.1245	2.1245	6.0000e-005	6.0000e-005	2.1446

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.6 Architectural Coating - 2033**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	7.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6337
Total	7.2368	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6337

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	0.0334	0.0180	0.2727	8.1000e-004	0.1167	3.9000e-004	0.1171	0.0311	3.6000e-004	0.0314	0.0000	74.6686	74.6686	1.9600e-003	2.1800e-003	75.3665
Total	0.0334	0.0180	0.2727	8.1000e-004	0.1167	3.9000e-004	0.1171	0.0311	3.6000e-004	0.0314	0.0000	74.6686	74.6686	1.9600e-003	2.1800e-003	75.3665

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	7.2181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6336
Total	7.2368	0.1227	0.2577	4.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	36.5966	36.5966	1.4800e-003	0.0000	36.6336

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	0.0334	0.0180	0.2727	8.1000e-004	0.1167	3.9000e-004	0.1171	0.0311	3.6000e-004	0.0314	0.0000	74.6686	74.6686	1.9600e-003	2.1800e-003	75.3665
Total	0.0334	0.0180	0.2727	8.1000e-004	0.1167	3.9000e-004	0.1171	0.0311	3.6000e-004	0.0314	0.0000	74.6686	74.6686	1.9600e-003	2.1800e-003	75.3665

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.7 Trenching - 2027**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	0.0697	0.5177	0.8353	1.8900e-003		0.0207	0.0207		0.0191	0.0191	0.0000	165.9051	165.9051	0.0537	0.0000	167.2465
Total	0.0697	0.5177	0.8353	1.8900e-003		0.0207	0.0207		0.0191	0.0191	0.0000	165.9051	165.9051	0.0537	0.0000	167.2465

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	1.8300e-003	1.0400e-003	0.0128	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0122	3.0122	1.1000e-004	1.0000e-004	3.0445
Total	1.8300e-003	1.0400e-003	0.0128	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0122	3.0122	1.1000e-004	1.0000e-004	3.0445

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0697	0.5177	0.8353	1.8900e-003		0.0207	0.0207		0.0191	0.0191	0.0000	165.9049	165.9049	0.0537	0.0000	167.2463
Total	0.0697	0.5177	0.8353	1.8900e-003		0.0207	0.0207		0.0191	0.0191	0.0000	165.9049	165.9049	0.0537	0.0000	167.2463

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	0.0000	0.0000	0.0000	0.0000	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	1.8300e-003	1.0400e-003	0.0128	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0122	3.0122	1.1000e-004	1.0000e-004	3.0445
Total	1.8300e-003	1.0400e-003	0.0128	3.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.0122	3.0122	1.1000e-004	1.0000e-004	3.0445

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.7 Trenching - 2028**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	0.1184	0.8798	1.4194	3.2100e-003		0.0352	0.0352		0.0324	0.0324	0.0000	281.9302	281.9302	0.0912	0.0000	284.2098
Total	0.1184	0.8798	1.4194	3.2100e-003		0.0352	0.0352		0.0324	0.0324	0.0000	281.9302	281.9302	0.0912	0.0000	284.2098

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	2.9100e-003	1.6100e-003	0.0205	5.0000e-005	6.9200e-003	3.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.9724	4.9724	1.7000e-004	1.6000e-004	5.0242
Total	2.9100e-003	1.6100e-003	0.0205	5.0000e-005	6.9200e-003	3.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.9724	4.9724	1.7000e-004	1.6000e-004	5.0242

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.1184	0.8798	1.4194	3.2100e-003		0.0352	0.0352		0.0324	0.0324	0.0000	281.9299	281.9299	0.0912	0.0000	284.2094
Total	0.1184	0.8798	1.4194	3.2100e-003		0.0352	0.0352		0.0324	0.0324	0.0000	281.9299	281.9299	0.0912	0.0000	284.2094

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	2.9100e-003	1.6100e-003	0.0205	5.0000e-005	6.9200e-003	3.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.9724	4.9724	1.7000e-004	1.6000e-004	5.0242
Total	2.9100e-003	1.6100e-003	0.0205	5.0000e-005	6.9200e-003	3.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	4.9724	4.9724	1.7000e-004	1.6000e-004	5.0242

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

3.7 Trenching - 2029**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	0.0633	0.4703	0.7588	1.7200e-003		0.0188	0.0188		0.0173	0.0173	0.0000	150.7242	150.7242	0.0488	0.0000	151.9429
Total	0.0633	0.4703	0.7588	1.7200e-003		0.0188	0.0188		0.0173	0.0173	0.0000	150.7242	150.7242	0.0488	0.0000	151.9429

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	1.4400e-003	7.9000e-004	0.0104	3.0000e-005	3.7000e-003	2.0000e-005	3.7100e-003	9.8000e-004	1.0000e-005	1.0000e-003	0.0000	2.5870	2.5870	9.0000e-005	8.0000e-005	2.6132
Total	1.4400e-003	7.9000e-004	0.0104	3.0000e-005	3.7000e-003	2.0000e-005	3.7100e-003	9.8000e-004	1.0000e-005	1.0000e-003	0.0000	2.5870	2.5870	9.0000e-005	8.0000e-005	2.6132

Valley's Edge Specific Plan Project - Construction (Phase 2) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:56 AM

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	0.0633	0.4703	0.7588	1.7200e-003		0.0188	0.0188		0.0173	0.0173	0.0000	150.7241	150.7241	0.0488	0.0000	151.9427
Total	0.0633	0.4703	0.7588	1.7200e-003		0.0188	0.0188		0.0173	0.0173	0.0000	150.7241	150.7241	0.0488	0.0000	151.9427

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	1.4400e-003	7.9000e-004	0.0104	3.0000e-005	3.7000e-003	2.0000e-005	3.7100e-003	9.8000e-004	1.0000e-005	1.0000e-003	0.0000	2.5870	2.5870	9.0000e-005	8.0000e-005	2.6132
Total	1.4400e-003	7.9000e-004	0.0104	3.0000e-005	3.7000e-003	2.0000e-005	3.7100e-003	9.8000e-004	1.0000e-005	1.0000e-003	0.0000	2.5870	2.5870	9.0000e-005	8.0000e-005	2.6132

Construction (Phase 3)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 3)
Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	120.00	1000sqft	0.00	120,000.00	0
Other Asphalt Surfaces	13.33	Acre	13.33	580,654.80	0
Health Club	3.84	1000sqft	0.00	3,840.00	0
Apartments Low Rise	279.00	Dwelling Unit	0.00	456,323.00	798
Apartments Mid Rise	65.00	Dwelling Unit	0.00	58,467.00	186
Single Family Housing	112.00	Dwelling Unit	0.00	381,851.00	320
Single Family Housing	309.00	Dwelling Unit	70.24	682,621.00	884
Free-Standing Discount store	13.00	1000sqft	0.00	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

Land Use - Phase 3: VLDR: 92 du, LDR: 127 du, MDR: 127 du, MHDR: 65 du, Senior VLDR: 20, Senior LDR: 180 du, Senior MDR: 152 du, Office: 120 ksf, Retail: 13 ksf, Clubhouses: 3.84 ksf, Paving: 13.33 acres. 70.24 Acre site.

Construction Phase - Construction would occur between 4/1/2033 to 4/30/2039.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Grading - Updated disturbed acres.

Trips and VMT - Default trips assumed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water twice daily

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	1,550.00	841.00
tblConstructionPhase	NumDays	155.00	153.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	60.00	30.00
tblConstructionPhase	PhaseEndDate	11/8/2040	8/20/2038
tblConstructionPhase	PhaseEndDate	1/5/2040	1/19/2038

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

tblConstructionPhase	PhaseEndDate	1/26/2034	12/13/2033
tblConstructionPhase	PhaseEndDate	6/7/2040	8/20/2038
tblConstructionPhase	PhaseEndDate	6/23/2033	5/12/2033
tblConstructionPhase	PhaseStartDate	6/8/2040	1/20/2038
tblConstructionPhase	PhaseStartDate	1/27/2034	10/31/2034
tblConstructionPhase	PhaseStartDate	6/24/2033	5/13/2033
tblConstructionPhase	PhaseStartDate	1/6/2040	1/20/2038
tblGrading	AcresOfGrading	535.50	70.24
tblGrading	AcresOfGrading	15.00	70.24
tblLandUse	LandUseSquareFeet	279,000.00	456,323.00
tblLandUse	LandUseSquareFeet	65,000.00	58,467.00
tblLandUse	LandUseSquareFeet	201,600.00	381,851.00
tblLandUse	LandUseSquareFeet	556,200.00	682,621.00
tblLandUse	LotAcreage	2.75	0.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	17.44	0.00
tblLandUse	LotAcreage	1.71	0.00
tblLandUse	LotAcreage	36.36	0.00
tblLandUse	LotAcreage	100.32	70.24
tblLandUse	LotAcreage	0.30	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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					
2033	0.4174	1.6371	2.6499	8.7100e-003	0.6382	0.0557	0.6939	0.3143	0.0557	0.3700	0.0000	850.9541	850.9541	0.0335	2.4000e-004	851.8618
2034	0.1676	0.6826	1.6653	4.5400e-003	0.1177	0.0143	0.1320	0.0319	0.0142	0.0461	0.0000	425.3268	425.3268	0.0128	0.0107	428.8362
2035	0.2329	1.5454	2.5620	9.0000e-003	0.6641	0.0128	0.6769	0.1801	0.0124	0.1925	0.0000	830.5419	830.5419	0.0150	0.0622	849.4380
2036	0.2338	1.5514	2.5719	9.0400e-003	0.6667	0.0129	0.6795	0.1808	0.0125	0.1932	0.0000	833.7241	833.7241	0.0151	0.0624	852.6925
2037	0.2329	1.5454	2.5620	9.0000e-003	0.6641	0.0128	0.6769	0.1801	0.0124	0.1925	0.0000	830.5419	830.5419	0.0150	0.0622	849.4380
2038	5.5066	0.5032	1.4232	2.8700e-003	0.1007	0.0120	0.1127	0.0270	0.0120	0.0389	0.0000	252.3571	252.3571	8.3600e-003	4.2900e-003	253.8456
Maximum	5.5066	1.6371	2.6499	9.0400e-003	0.6667	0.0557	0.6939	0.3143	0.0557	0.3700	0.0000	850.9541	850.9541	0.0335	0.0624	852.6925

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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					
2033	0.4174	1.6371	2.6498	8.7100e-003	0.2942	0.0557	0.3499	0.1433	0.0557	0.1990	0.0000	850.9531	850.9531	0.0335	2.4000e-004	851.8608
2034	0.1676	0.6826	1.6653	4.5400e-003	0.1177	0.0143	0.1320	0.0319	0.0142	0.0461	0.0000	425.3265	425.3265	0.0128	0.0107	428.8359
2035	0.2329	1.5454	2.5620	9.0000e-003	0.6641	0.0128	0.6769	0.1801	0.0124	0.1925	0.0000	830.5418	830.5418	0.0150	0.0622	849.4378
2036	0.2338	1.5514	2.5719	9.0400e-003	0.6667	0.0129	0.6795	0.1808	0.0125	0.1932	0.0000	833.7239	833.7239	0.0151	0.0624	852.6924
2037	0.2329	1.5454	2.5620	9.0000e-003	0.6641	0.0128	0.6769	0.1801	0.0124	0.1925	0.0000	830.5418	830.5418	0.0150	0.0622	849.4378
2038	5.5066	0.5032	1.4232	2.8700e-003	0.1007	0.0120	0.1127	0.0270	0.0120	0.0389	0.0000	252.3569	252.3569	8.3600e-003	4.2900e-003	253.8454
Maximum	5.5066	1.6371	2.6498	9.0400e-003	0.6667	0.0557	0.6795	0.1808	0.0557	0.1990	0.0000	850.9531	850.9531	0.0335	0.0624	852.6924

	ROG	NOx	CO	SO2	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	12.07	0.00	11.58	18.71	0.00	16.55	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	4/1/2033	5/12/2033	5	30	
2	Grading	Grading	5/13/2033	12/13/2033	5	153	
3	Building Construction	Building Construction	10/31/2034	1/19/2038	5	841	
4	Paving	Paving	1/20/2038	8/20/2038	5	153	
5	Architectural Coating	Architectural Coating	1/20/2038	8/20/2038	5	153	
6	Trenching	Trenching	5/13/2033	10/30/2034	5	382	

Acres of Grading (Site Preparation Phase): 70.24

Acres of Grading (Grading Phase): 70.24

Acres of Paving: 13.33

Residential Indoor: 3,198,006; Residential Outdoor: 1,066,002; Non-Residential Indoor: 205,260; Non-Residential Outdoor: 68,420; Striped Parking Area:

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	152.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	754.00	200.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	12.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2033**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					0.1276	0.0000	0.1276	0.0537	0.0000	0.0537	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.0664	0.0794	3.6000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	34.4149	34.4149	1.4100e-003	0.0000	34.4502
Total	0.0175	0.0664	0.0794	3.6000e-004	0.1276	2.4900e-003	0.1301	0.0537	2.4900e-003	0.0562	0.0000	34.4149	34.4149	1.4100e-003	0.0000	34.4502

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	2.7000e-004	1.5000e-004	2.2400e-003	1.0000e-005	9.6000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6129	0.6129	2.0000e-005	2.0000e-005	0.6186
Total	2.7000e-004	1.5000e-004	2.2400e-003	1.0000e-005	9.6000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6129	0.6129	2.0000e-005	2.0000e-005	0.6186

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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					0.0574	0.0000	0.0574	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.0664	0.0794	3.6000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	34.4149	34.4149	1.4100e-003	0.0000	34.4501
Total	0.0175	0.0664	0.0794	3.6000e-004	0.0574	2.4900e-003	0.0599	0.0242	2.4900e-003	0.0266	0.0000	34.4149	34.4149	1.4100e-003	0.0000	34.4501

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	2.7000e-004	1.5000e-004	2.2400e-003	1.0000e-005	9.6000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6129	0.6129	2.0000e-005	2.0000e-005	0.6186
Total	2.7000e-004	1.5000e-004	2.2400e-003	1.0000e-005	9.6000e-004	0.0000	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6129	0.6129	2.0000e-005	2.0000e-005	0.6186

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.3 Grading - 2033**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					0.4979	0.0000	0.4979	0.2573	0.0000	0.2573	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3004	1.2495	1.6080	5.9800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	593.0556	593.0556	0.0242	0.0000	593.6602
Total	0.3004	1.2495	1.6080	5.9800e-003	0.4979	0.0442	0.5421	0.2573	0.0442	0.3014	0.0000	593.0556	593.0556	0.0242	0.0000	593.6602

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	2.1000e-003	1.1300e-003	0.0171	5.0000e-005	7.3300e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.6885	4.6885	1.2000e-004	1.4000e-004	4.7323
Total	2.1000e-003	1.1300e-003	0.0171	5.0000e-005	7.3300e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.6885	4.6885	1.2000e-004	1.4000e-004	4.7323

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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					0.2241	0.0000	0.2241	0.1158	0.0000	0.1158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3004	1.2495	1.6080	5.9800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	593.0549	593.0549	0.0242	0.0000	593.6595
Total	0.3004	1.2495	1.6080	5.9800e-003	0.2241	0.0442	0.2682	0.1158	0.0442	0.1599	0.0000	593.0549	593.0549	0.0242	0.0000	593.6595

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	2.1000e-003	1.1300e-003	0.0171	5.0000e-005	7.3300e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.6885	4.6885	1.2000e-004	1.4000e-004	4.7323
Total	2.1000e-003	1.1300e-003	0.0171	5.0000e-005	7.3300e-003	2.0000e-005	7.3500e-003	1.9500e-003	2.0000e-005	1.9700e-003	0.0000	4.6885	4.6885	1.2000e-004	1.4000e-004	4.7323

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.4 Building Construction - 2034**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	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0412	25.0412	1.0800e-003	0.0000	25.0681
Total	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0412	25.0412	1.0800e-003	0.0000	25.0681

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	4.5300e-003	0.1761	0.0579	6.4000e-004	0.0237	1.0300e-003	0.0247	6.8600e-003	9.8000e-004	7.8400e-003	0.0000	60.9499	60.9499	2.1000e-004	9.0000e-003	63.6376
Worker	0.0235	0.0128	0.1987	6.1000e-004	0.0883	2.7000e-004	0.0885	0.0235	2.5000e-004	0.0238	0.0000	55.4998	55.4998	1.3800e-003	1.6000e-003	56.0116
Total	0.0280	0.1889	0.2567	1.2500e-003	0.1120	1.3000e-003	0.1133	0.0304	1.2300e-003	0.0316	0.0000	116.4497	116.4497	1.5900e-003	0.0106	119.6492

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0411	25.0411	1.0800e-003	0.0000	25.0680
Total	0.0134	0.0775	0.1819	2.9000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	25.0411	25.0411	1.0800e-003	0.0000	25.0680

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	4.5300e-003	0.1761	0.0579	6.4000e-004	0.0237	1.0300e-003	0.0247	6.8600e-003	9.8000e-004	7.8400e-003	0.0000	60.9499	60.9499	2.1000e-004	9.0000e-003	63.6376
Worker	0.0235	0.0128	0.1987	6.1000e-004	0.0883	2.7000e-004	0.0885	0.0235	2.5000e-004	0.0238	0.0000	55.4998	55.4998	1.3800e-003	1.6000e-003	56.0116
Total	0.0280	0.1889	0.2567	1.2500e-003	0.1120	1.3000e-003	0.1133	0.0304	1.2300e-003	0.0316	0.0000	116.4497	116.4497	1.5900e-003	0.0106	119.6492

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.4 Building Construction - 2035**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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927

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	0.0266	1.0386	0.3437	3.7400e-003	0.1405	6.0100e-003	0.1465	0.0407	5.7500e-003	0.0464	0.0000	357.8832	357.8832	1.2600e-003	0.0529	373.6675
Worker	0.1299	0.0718	1.1412	3.5300e-003	0.5236	1.5200e-003	0.5251	0.1394	1.4000e-003	0.1408	0.0000	324.1191	324.1191	7.6500e-003	9.2900e-003	327.0778
Total	0.1565	1.1104	1.4848	7.2700e-003	0.6641	7.5300e-003	0.6716	0.1801	7.1500e-003	0.1872	0.0000	682.0023	682.0023	8.9100e-003	0.0622	700.7453

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925

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	0.0266	1.0386	0.3437	3.7400e-003	0.1405	6.0100e-003	0.1465	0.0407	5.7500e-003	0.0464	0.0000	357.8832	357.8832	1.2600e-003	0.0529	373.6675
Worker	0.1299	0.0718	1.1412	3.5300e-003	0.5236	1.5200e-003	0.5251	0.1394	1.4000e-003	0.1408	0.0000	324.1191	324.1191	7.6500e-003	9.2900e-003	327.0778
Total	0.1565	1.1104	1.4848	7.2700e-003	0.6641	7.5300e-003	0.6716	0.1801	7.1500e-003	0.1872	0.0000	682.0023	682.0023	8.9100e-003	0.0622	700.7453

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.4 Building Construction - 2036**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	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1088	149.1088	6.1500e-003	0.0000	149.2624
Total	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1088	149.1088	6.1500e-003	0.0000	149.2624

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	0.0267	1.0425	0.3450	3.7500e-003	0.1411	6.0400e-003	0.1471	0.0409	5.7700e-003	0.0466	0.0000	359.2544	359.2544	1.2700e-003	0.0531	375.0992
Worker	0.1304	0.0721	1.1455	3.5500e-003	0.5256	1.5300e-003	0.5271	0.1399	1.4100e-003	0.1413	0.0000	325.3609	325.3609	7.6800e-003	9.3200e-003	328.3310
Total	0.1571	1.1147	1.4905	7.3000e-003	0.6667	7.5700e-003	0.6742	0.1808	7.1800e-003	0.1879	0.0000	684.6153	684.6153	8.9500e-003	0.0624	703.4301

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1086	149.1086	6.1500e-003	0.0000	149.2622
Total	0.0767	0.4367	1.0814	1.7400e-003		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003	0.0000	149.1086	149.1086	6.1500e-003	0.0000	149.2622

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	0.0267	1.0425	0.3450	3.7500e-003	0.1411	6.0400e-003	0.1471	0.0409	5.7700e-003	0.0466	0.0000	359.2544	359.2544	1.2700e-003	0.0531	375.0992
Worker	0.1304	0.0721	1.1455	3.5500e-003	0.5256	1.5300e-003	0.5271	0.1399	1.4100e-003	0.1413	0.0000	325.3609	325.3609	7.6800e-003	9.3200e-003	328.3310
Total	0.1571	1.1147	1.4905	7.3000e-003	0.6667	7.5700e-003	0.6742	0.1808	7.1800e-003	0.1879	0.0000	684.6153	684.6153	8.9500e-003	0.0624	703.4301

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.4 Building Construction - 2037**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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5396	148.5396	6.1200e-003	0.0000	148.6927

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	0.0266	1.0386	0.3437	3.7400e-003	0.1405	6.0100e-003	0.1465	0.0407	5.7500e-003	0.0464	0.0000	357.8832	357.8832	1.2600e-003	0.0529	373.6675
Worker	0.1299	0.0718	1.1412	3.5300e-003	0.5236	1.5200e-003	0.5251	0.1394	1.4000e-003	0.1408	0.0000	324.1191	324.1191	7.6500e-003	9.2900e-003	327.0778
Total	0.1565	1.1104	1.4848	7.2700e-003	0.6641	7.5300e-003	0.6716	0.1801	7.1500e-003	0.1872	0.0000	682.0023	682.0023	8.9100e-003	0.0622	700.7453

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925
Total	0.0764	0.4350	1.0772	1.7300e-003		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	148.5395	148.5395	6.1200e-003	0.0000	148.6925

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	0.0266	1.0386	0.3437	3.7400e-003	0.1405	6.0100e-003	0.1465	0.0407	5.7500e-003	0.0464	0.0000	357.8832	357.8832	1.2600e-003	0.0529	373.6675
Worker	0.1299	0.0718	1.1412	3.5300e-003	0.5236	1.5200e-003	0.5251	0.1394	1.4000e-003	0.1408	0.0000	324.1191	324.1191	7.6500e-003	9.2900e-003	327.0778
Total	0.1565	1.1104	1.4848	7.2700e-003	0.6641	7.5300e-003	0.6716	0.1801	7.1500e-003	0.1872	0.0000	682.0023	682.0023	8.9100e-003	0.0622	700.7453

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.4 Building Construction - 2038**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	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4062
Total	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4062

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	1.3300e-003	0.0517	0.0171	1.9000e-004	7.0000e-003	3.0000e-004	7.3000e-003	2.0300e-003	2.9000e-004	2.3100e-003	0.0000	17.8256	17.8256	6.0000e-005	2.6300e-003	18.6118
Worker	6.4700e-003	3.5800e-003	0.0568	1.8000e-004	0.0261	8.0000e-005	0.0262	6.9400e-003	7.0000e-005	7.0100e-003	0.0000	16.1439	16.1439	3.8000e-004	4.6000e-004	16.2912
Total	7.8000e-003	0.0553	0.0740	3.7000e-004	0.0331	3.8000e-004	0.0335	8.9700e-003	3.6000e-004	9.3200e-003	0.0000	33.9695	33.9695	4.4000e-004	3.0900e-003	34.9030

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4061
Total	3.8100e-003	0.0217	0.0537	9.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	7.3985	7.3985	3.0000e-004	0.0000	7.4061

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	1.3300e-003	0.0517	0.0171	1.9000e-004	7.0000e-003	3.0000e-004	7.3000e-003	2.0300e-003	2.9000e-004	2.3100e-003	0.0000	17.8256	17.8256	6.0000e-005	2.6300e-003	18.6118
Worker	6.4700e-003	3.5800e-003	0.0568	1.8000e-004	0.0261	8.0000e-005	0.0262	6.9400e-003	7.0000e-005	7.0100e-003	0.0000	16.1439	16.1439	3.8000e-004	4.6000e-004	16.2912
Total	7.8000e-003	0.0553	0.0740	3.7000e-004	0.0331	3.8000e-004	0.0335	8.9700e-003	3.6000e-004	9.3200e-003	0.0000	33.9695	33.9695	4.4000e-004	3.0900e-003	34.9030

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.5 Paving - 2038**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	0.0696	0.3397	0.9653	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.1155	143.1155	5.6600e-003	0.0000	143.2569
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0870	0.3397	0.9653	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.1155	143.1155	5.6600e-003	0.0000	143.2569

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	1.4100e-003	7.8000e-004	0.0124	4.0000e-005	5.7000e-003	2.0000e-005	5.7200e-003	1.5200e-003	2.0000e-005	1.5300e-003	0.0000	3.5279	3.5279	8.0000e-005	1.0000e-004	3.5601
Total	1.4100e-003	7.8000e-004	0.0124	4.0000e-005	5.7000e-003	2.0000e-005	5.7200e-003	1.5200e-003	2.0000e-005	1.5300e-003	0.0000	3.5279	3.5279	8.0000e-005	1.0000e-004	3.5601

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0696	0.3397	0.9653	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.1153	143.1153	5.6600e-003	0.0000	143.2568
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0870	0.3397	0.9653	1.6700e-003		0.0102	0.0102		0.0102	0.0102	0.0000	143.1153	143.1153	5.6600e-003	0.0000	143.2568

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	1.4100e-003	7.8000e-004	0.0124	4.0000e-005	5.7000e-003	2.0000e-005	5.7200e-003	1.5200e-003	2.0000e-005	1.5300e-003	0.0000	3.5279	3.5279	8.0000e-005	1.0000e-004	3.5601
Total	1.4100e-003	7.8000e-004	0.0124	4.0000e-005	5.7000e-003	2.0000e-005	5.7200e-003	1.5200e-003	2.0000e-005	1.5300e-003	0.0000	3.5279	3.5279	8.0000e-005	1.0000e-004	3.5601

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.6 Architectural Coating - 2038**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	5.3792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0773	0.1830	3.0000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	26.0432	26.0432	9.6000e-004	0.0000	26.0673
Total	5.3912	0.0773	0.1830	3.0000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	26.0432	26.0432	9.6000e-004	0.0000	26.0673

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	0.0154	8.4900e-003	0.1349	4.2000e-004	0.0619	1.8000e-004	0.0621	0.0165	1.7000e-004	0.0166	0.0000	38.3026	38.3026	9.0000e-004	1.1000e-003	38.6522
Total	0.0154	8.4900e-003	0.1349	4.2000e-004	0.0619	1.8000e-004	0.0621	0.0165	1.7000e-004	0.0166	0.0000	38.3026	38.3026	9.0000e-004	1.1000e-003	38.6522

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	5.3792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0773	0.1830	3.0000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	26.0432	26.0432	9.6000e-004	0.0000	26.0672
Total	5.3912	0.0773	0.1830	3.0000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	26.0432	26.0432	9.6000e-004	0.0000	26.0672

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	0.0154	8.4900e-003	0.1349	4.2000e-004	0.0619	1.8000e-004	0.0621	0.0165	1.7000e-004	0.0166	0.0000	38.3026	38.3026	9.0000e-004	1.1000e-003	38.6522
Total	0.0154	8.4900e-003	0.1349	4.2000e-004	0.0619	1.8000e-004	0.0621	0.0165	1.7000e-004	0.0166	0.0000	38.3026	38.3026	9.0000e-004	1.1000e-003	38.6522

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.7 Trenching - 2033**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	0.0958	0.3193	0.9328	2.2800e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	215.3562	215.3562	7.6700e-003	0.0000	215.5481
Total	0.0958	0.3193	0.9328	2.2800e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	215.3562	215.3562	7.6700e-003	0.0000	215.5481

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	1.2600e-003	6.8000e-004	0.0103	3.0000e-005	4.4200e-003	1.0000e-005	4.4300e-003	1.1800e-003	1.0000e-005	1.1900e-003	0.0000	2.8260	2.8260	7.0000e-005	8.0000e-005	2.8525
Total	1.2600e-003	6.8000e-004	0.0103	3.0000e-005	4.4200e-003	1.0000e-005	4.4300e-003	1.1800e-003	1.0000e-005	1.1900e-003	0.0000	2.8260	2.8260	7.0000e-005	8.0000e-005	2.8525

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.0958	0.3193	0.9328	2.2800e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	215.3560	215.3560	7.6700e-003	0.0000	215.5478
Total	0.0958	0.3193	0.9328	2.2800e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	215.3560	215.3560	7.6700e-003	0.0000	215.5478

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	1.2600e-003	6.8000e-004	0.0103	3.0000e-005	4.4200e-003	1.0000e-005	4.4300e-003	1.1800e-003	1.0000e-005	1.1900e-003	0.0000	2.8260	2.8260	7.0000e-005	8.0000e-005	2.8525
Total	1.2600e-003	6.8000e-004	0.0103	3.0000e-005	4.4200e-003	1.0000e-005	4.4300e-003	1.1800e-003	1.0000e-005	1.1900e-003	0.0000	2.8260	2.8260	7.0000e-005	8.0000e-005	2.8525

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

3.7 Trenching - 2034**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	0.1247	0.4154	1.2138	2.9700e-003		0.0117	0.0117		0.0117	0.0117	0.0000	280.2225	280.2225	9.9900e-003	0.0000	280.4722
Total	0.1247	0.4154	1.2138	2.9700e-003		0.0117	0.0117		0.0117	0.0117	0.0000	280.2225	280.2225	9.9900e-003	0.0000	280.4722

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	1.5300e-003	8.3000e-004	0.0129	4.0000e-005	5.7500e-003	2.0000e-005	5.7600e-003	1.5300e-003	2.0000e-005	1.5500e-003	0.0000	3.6134	3.6134	9.0000e-005	1.0000e-004	3.6468
Total	1.5300e-003	8.3000e-004	0.0129	4.0000e-005	5.7500e-003	2.0000e-005	5.7600e-003	1.5300e-003	2.0000e-005	1.5500e-003	0.0000	3.6134	3.6134	9.0000e-005	1.0000e-004	3.6468

Valley's Edge Specific Plan Project - Construction (Phase 3) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 9:43 AM

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	0.1247	0.4154	1.2138	2.9700e-003		0.0117	0.0117		0.0117	0.0117	0.0000	280.2222	280.2222	9.9900e-003	0.0000	280.4719
Total	0.1247	0.4154	1.2138	2.9700e-003		0.0117	0.0117		0.0117	0.0117	0.0000	280.2222	280.2222	9.9900e-003	0.0000	280.4719

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	1.5300e-003	8.3000e-004	0.0129	4.0000e-005	5.7500e-003	2.0000e-005	5.7600e-003	1.5300e-003	2.0000e-005	1.5500e-003	0.0000	3.6134	3.6134	9.0000e-005	1.0000e-004	3.6468
Total	1.5300e-003	8.3000e-004	0.0129	4.0000e-005	5.7500e-003	2.0000e-005	5.7600e-003	1.5300e-003	2.0000e-005	1.5500e-003	0.0000	3.6134	3.6134	9.0000e-005	1.0000e-004	3.6468

Construction (Phase 4)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 4)
Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	72.00	1000sqft	0.00	72,000.00	0
Other Asphalt Surfaces	2.74	Acre	2.74	119,354.40	0
Apartments Low Rise	123.00	Dwelling Unit	0.00	206,707.00	352
Single Family Housing	100.00	Dwelling Unit	27.11	346,300.00	286
Single Family Housing	72.00	Dwelling Unit	0.00	92,783.00	206
Free-Standing Discount store	12.00	1000sqft	0.00	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 4: VLDR: 91 du, LDR: 18 du, MDR: 75 du, Senior VLDR: 9 du, Senior LDR: 24 du, Senior MDR: 48 du, Office: 72 ksf, Retail: 12 ksf, Paving: 2.74 acres.

27.11 Acre site

Construction Phase - Construction would occur between 4/1/2039 to 5/15/2041.

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Grading - Updated disturbed acres.

Trips and VMT - Default trips assumed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water twice daily

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	440.00	291.00
tblConstructionPhase	NumDays	45.00	53.00
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	6/13/2041	1/3/2041
tblConstructionPhase	PhaseEndDate	3/7/2041	8/8/2040
tblConstructionPhase	PhaseEndDate	6/30/2039	6/28/2039
tblConstructionPhase	PhaseEndDate	4/25/2041	10/22/2040
tblConstructionPhase	PhaseEndDate	4/28/2039	4/14/2039

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

tblConstructionPhase	PhaseStartDate	4/26/2041	10/23/2040
tblConstructionPhase	PhaseStartDate	7/1/2039	6/29/2039
tblConstructionPhase	PhaseStartDate	4/29/2039	4/15/2039
tblConstructionPhase	PhaseStartDate	3/8/2041	8/9/2040
tblGrading	AcresOfGrading	157.50	27.11
tblGrading	AcresOfGrading	10.00	27.11
tblLandUse	LandUseSquareFeet	123,000.00	206,707.00
tblLandUse	LandUseSquareFeet	180,000.00	346,300.00
tblLandUse	LandUseSquareFeet	129,600.00	92,783.00
tblLandUse	LotAcreage	1.65	0.00
tblLandUse	LotAcreage	7.69	0.00
tblLandUse	LotAcreage	32.47	27.11
tblLandUse	LotAcreage	23.38	0.00
tblLandUse	LotAcreage	0.28	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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					
2039	0.2349	0.9252	2.0980	6.0600e-003	0.3329	0.0194	0.3523	0.1401	0.0194	0.1594	0.0000	573.7332	573.7332	0.0181	9.8800e-003	577.1306
2040	2.2123	0.5835	1.3109	3.0600e-003	0.1295	6.6000e-003	0.1361	0.0351	6.5400e-003	0.0416	0.0000	273.0535	273.0535	7.0500e-003	0.0112	276.5758
2041	0.1271	1.5000e-003	4.2900e-003	1.0000e-005	3.7000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.1000e-004	0.0000	0.7261	0.7261	2.0000e-005	1.0000e-005	0.7284
Maximum	2.2123	0.9252	2.0980	6.0600e-003	0.3329	0.0194	0.3523	0.1401	0.0194	0.1594	0.0000	573.7332	573.7332	0.0181	0.0112	577.1306

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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					
2039	0.2349	0.9252	2.0980	6.0600e-003	0.2094	0.0194	0.2288	0.0792	0.0194	0.0985	0.0000	573.7327	573.7327	0.0181	9.8800e-003	577.1300
2040	2.2123	0.5835	1.3109	3.0600e-003	0.1295	6.6000e-003	0.1361	0.0351	6.5400e-003	0.0416	0.0000	273.0533	273.0533	7.0500e-003	0.0112	276.5756
2041	0.1271	1.5000e-003	4.2900e-003	1.0000e-005	3.7000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.1000e-004	0.0000	0.7261	0.7261	2.0000e-005	1.0000e-005	0.7284
Maximum	2.2123	0.9252	2.0980	6.0600e-003	0.2094	0.0194	0.2288	0.0792	0.0194	0.0985	0.0000	573.7327	573.7327	0.0181	0.0112	577.1300

	ROG	NOx	CO	SO2	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	26.68	0.00	25.26	34.74	0.00	30.27	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	4/1/2039	4/14/2039	5	10	
2	Grading	Grading	4/15/2039	6/28/2039	5	53	
3	Trenching	Trenching	4/15/2039	10/17/2039	5	132	
4	Building Construction	Building Construction	6/29/2039	8/8/2040	5	291	
5	Paving	Paving	8/9/2040	10/22/2040	5	53	
6	Architectural Coating	Architectural Coating	10/23/2040	1/3/2041	5	53	

Acres of Grading (Site Preparation Phase): 27.11

Acres of Grading (Grading Phase): 27.11

Acres of Paving: 2.74

Residential Indoor: 1,307,725; Residential Outdoor: 435,908; Non-Residential Indoor: 126,000; Non-Residential Outdoor: 42,000; Striped Parking Area:

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	46.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	226.00	62.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2039**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					0.0746	0.0000	0.0746	0.0347	0.0000	0.0347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3100e-003	0.0152	0.0260	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	11.4716	11.4716	4.2000e-004	0.0000	11.4821
Total	5.3100e-003	0.0152	0.0260	1.2000e-004	0.0746	5.8000e-004	0.0752	0.0347	5.8000e-004	0.0352	0.0000	11.4716	11.4716	4.2000e-004	0.0000	11.4821

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	4.0000e-005	2.0000e-005	3.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0997
Total	4.0000e-005	2.0000e-005	3.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0997

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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					0.0336	0.0000	0.0336	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3100e-003	0.0152	0.0260	1.2000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	11.4716	11.4716	4.2000e-004	0.0000	11.4821
Total	5.3100e-003	0.0152	0.0260	1.2000e-004	0.0336	5.8000e-004	0.0342	0.0156	5.8000e-004	0.0162	0.0000	11.4716	11.4716	4.2000e-004	0.0000	11.4821

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	4.0000e-005	2.0000e-005	3.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0997
Total	4.0000e-005	2.0000e-005	3.5000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0988	0.0988	0.0000	0.0000	0.0997

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.3 Grading - 2039**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					0.1499	0.0000	0.1499	0.0760	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0926	0.2980	0.5392	2.0700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	205.4378	205.4378	7.4000e-003	0.0000	205.6228
Total	0.0926	0.2980	0.5392	2.0700e-003	0.1499	9.9000e-003	0.1598	0.0760	9.9000e-003	0.0859	0.0000	205.4378	205.4378	7.4000e-003	0.0000	205.6228

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	6.3000e-004	3.5000e-004	5.5300e-003	2.0000e-005	2.5400e-003	1.0000e-005	2.5500e-003	6.8000e-004	1.0000e-005	6.8000e-004	0.0000	1.5712	1.5712	4.0000e-005	5.0000e-005	1.5856
Total	6.3000e-004	3.5000e-004	5.5300e-003	2.0000e-005	2.5400e-003	1.0000e-005	2.5500e-003	6.8000e-004	1.0000e-005	6.8000e-004	0.0000	1.5712	1.5712	4.0000e-005	5.0000e-005	1.5856

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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					0.0674	0.0000	0.0674	0.0342	0.0000	0.0342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0926	0.2980	0.5392	2.0700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	205.4375	205.4375	7.4000e-003	0.0000	205.6225
Total	0.0926	0.2980	0.5392	2.0700e-003	0.0674	9.9000e-003	0.0773	0.0342	9.9000e-003	0.0441	0.0000	205.4375	205.4375	7.4000e-003	0.0000	205.6225

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	6.3000e-004	3.5000e-004	5.5300e-003	2.0000e-005	2.5400e-003	1.0000e-005	2.5500e-003	6.8000e-004	1.0000e-005	6.8000e-004	0.0000	1.5712	1.5712	4.0000e-005	5.0000e-005	1.5856
Total	6.3000e-004	3.5000e-004	5.5300e-003	2.0000e-005	2.5400e-003	1.0000e-005	2.5500e-003	6.8000e-004	1.0000e-005	6.8000e-004	0.0000	1.5712	1.5712	4.0000e-005	5.0000e-005	1.5856

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.4 Trenching - 2039**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	0.0725	0.2144	0.7418	1.8100e-003		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	171.2471	171.2471	5.7400e-003	0.0000	171.3906
Total	0.0725	0.2144	0.7418	1.8100e-003		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	171.2471	171.2471	5.7400e-003	0.0000	171.3906

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	8.7000e-004	4.8000e-004	7.6500e-003	2.0000e-005	3.5100e-003	1.0000e-005	3.5200e-003	9.3000e-004	1.0000e-005	9.4000e-004	0.0000	2.1740	2.1740	5.0000e-005	6.0000e-005	2.1939
Total	8.7000e-004	4.8000e-004	7.6500e-003	2.0000e-005	3.5100e-003	1.0000e-005	3.5200e-003	9.3000e-004	1.0000e-005	9.4000e-004	0.0000	2.1740	2.1740	5.0000e-005	6.0000e-005	2.1939

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	0.0725	0.2144	0.7418	1.8100e-003		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	171.2469	171.2469	5.7400e-003	0.0000	171.3904
Total	0.0725	0.2144	0.7418	1.8100e-003		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	171.2469	171.2469	5.7400e-003	0.0000	171.3904

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	8.7000e-004	4.8000e-004	7.6500e-003	2.0000e-005	3.5100e-003	1.0000e-005	3.5200e-003	9.3000e-004	1.0000e-005	9.4000e-004	0.0000	2.1740	2.1740	5.0000e-005	6.0000e-005	2.1939
Total	8.7000e-004	4.8000e-004	7.6500e-003	2.0000e-005	3.5100e-003	1.0000e-005	3.5200e-003	9.3000e-004	1.0000e-005	9.4000e-004	0.0000	2.1740	2.1740	5.0000e-005	6.0000e-005	2.1939

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.5 Building Construction - 2039**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	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6926	75.6926	3.1200e-003	0.0000	75.7706
Total	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6926	75.6926	3.1200e-003	0.0000	75.7706

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	4.2100e-003	0.1641	0.0543	5.9000e-004	0.0222	9.5000e-004	0.0232	6.4300e-003	9.1000e-004	7.3400e-003	0.0000	56.5346	56.5346	2.0000e-004	8.3500e-003	59.0280
Worker	0.0198	0.0110	0.1743	5.4000e-004	0.0800	2.3000e-004	0.0802	0.0213	2.1000e-004	0.0215	0.0000	49.5054	49.5054	1.1700e-003	1.4200e-003	49.9573
Total	0.0240	0.1750	0.2286	1.1300e-003	0.1022	1.1800e-003	0.1034	0.0277	1.1200e-003	0.0288	0.0000	106.0400	106.0400	1.3700e-003	9.7700e-003	108.9854

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6925	75.6925	3.1200e-003	0.0000	75.7705
Total	0.0389	0.2217	0.5489	8.8000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003	0.0000	75.6925	75.6925	3.1200e-003	0.0000	75.7705

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	4.2100e-003	0.1641	0.0543	5.9000e-004	0.0222	9.5000e-004	0.0232	6.4300e-003	9.1000e-004	7.3400e-003	0.0000	56.5346	56.5346	2.0000e-004	8.3500e-003	59.0280
Worker	0.0198	0.0110	0.1743	5.4000e-004	0.0800	2.3000e-004	0.0802	0.0213	2.1000e-004	0.0215	0.0000	49.5054	49.5054	1.1700e-003	1.4200e-003	49.9573
Total	0.0240	0.1750	0.2286	1.1300e-003	0.1022	1.1800e-003	0.1034	0.0277	1.1200e-003	0.0288	0.0000	106.0400	106.0400	1.3700e-003	9.7700e-003	108.9854

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.5 Building Construction - 2040**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	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9205	89.9205	3.6200e-003	0.0000	90.0109
Total	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9205	89.9205	3.6200e-003	0.0000	90.0109

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	4.9100e-003	0.1903	0.0648	6.7000e-004	0.0264	1.0900e-003	0.0275	7.6400e-003	1.0500e-003	8.6800e-003	0.0000	64.5593	64.5593	2.4000e-004	9.5300e-003	67.4045
Worker	0.0174	0.0108	0.1838	6.1000e-004	0.0950	2.1000e-004	0.0952	0.0253	1.9000e-004	0.0255	0.0000	55.7384	55.7384	1.0500e-003	1.5700e-003	56.2318
Total	0.0223	0.2010	0.2486	1.2800e-003	0.1214	1.3000e-003	0.1227	0.0329	1.2400e-003	0.0342	0.0000	120.2977	120.2977	1.2900e-003	0.0111	123.6362

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9204	89.9204	3.6200e-003	0.0000	90.0108
Total	0.0459	0.2595	0.6526	1.0500e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	89.9204	89.9204	3.6200e-003	0.0000	90.0108

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	4.9100e-003	0.1903	0.0648	6.7000e-004	0.0264	1.0900e-003	0.0275	7.6400e-003	1.0500e-003	8.6800e-003	0.0000	64.5593	64.5593	2.4000e-004	9.5300e-003	67.4045
Worker	0.0174	0.0108	0.1838	6.1000e-004	0.0950	2.1000e-004	0.0952	0.0253	1.9000e-004	0.0255	0.0000	55.7384	55.7384	1.0500e-003	1.5700e-003	56.2318
Total	0.0223	0.2010	0.2486	1.2800e-003	0.1214	1.3000e-003	0.1227	0.0329	1.2400e-003	0.0342	0.0000	120.2977	120.2977	1.2900e-003	0.0111	123.6362

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.6 Paving - 2040**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	0.0219	0.0979	0.3343	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.5759	49.5759	1.7500e-003	0.0000	49.6198
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.0979	0.3343	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.5759	49.5759	1.7500e-003	0.0000	49.6198

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	3.6000e-004	2.2000e-004	3.8200e-003	1.0000e-005	1.9700e-003	0.0000	1.9800e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	1.1582	1.1582	2.0000e-005	3.0000e-005	1.1685
Total	3.6000e-004	2.2000e-004	3.8200e-003	1.0000e-005	1.9700e-003	0.0000	1.9800e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	1.1582	1.1582	2.0000e-005	3.0000e-005	1.1685

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	0.0219	0.0979	0.3343	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.5759	49.5759	1.7500e-003	0.0000	49.6198
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.0979	0.3343	5.8000e-004		2.2400e-003	2.2400e-003		2.2400e-003	2.2400e-003	0.0000	49.5759	49.5759	1.7500e-003	0.0000	49.6198

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	3.6000e-004	2.2000e-004	3.8200e-003	1.0000e-005	1.9700e-003	0.0000	1.9800e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	1.1582	1.1582	2.0000e-005	3.0000e-005	1.1685
Total	3.6000e-004	2.2000e-004	3.8200e-003	1.0000e-005	1.9700e-003	0.0000	1.9800e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	1.1582	1.1582	2.0000e-005	3.0000e-005	1.1685

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.7 Architectural Coating - 2040**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	2.1132					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5109	8.5109	3.0000e-004	0.0000	8.5183
Total	2.1170	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5109	8.5109	3.0000e-004	0.0000	8.5183

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	1.1200e-003	6.9000e-004	0.0118	4.0000e-005	6.1200e-003	1.0000e-005	6.1300e-003	1.6300e-003	1.0000e-005	1.6400e-003	0.0000	3.5902	3.5902	7.0000e-005	1.0000e-004	3.6220
Total	1.1200e-003	6.9000e-004	0.0118	4.0000e-005	6.1200e-003	1.0000e-005	6.1300e-003	1.6300e-003	1.0000e-005	1.6400e-003	0.0000	3.5902	3.5902	7.0000e-005	1.0000e-004	3.6220

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	2.1132					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5108	8.5108	3.0000e-004	0.0000	8.5183
Total	2.1170	0.0242	0.0597	1.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	8.5108	8.5108	3.0000e-004	0.0000	8.5183

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	1.1200e-003	6.9000e-004	0.0118	4.0000e-005	6.1200e-003	1.0000e-005	6.1300e-003	1.6300e-003	1.0000e-005	1.6400e-003	0.0000	3.5902	3.5902	7.0000e-005	1.0000e-004	3.6220
Total	1.1200e-003	6.9000e-004	0.0118	4.0000e-005	6.1200e-003	1.0000e-005	6.1300e-003	1.6300e-003	1.0000e-005	1.6400e-003	0.0000	3.5902	3.5902	7.0000e-005	1.0000e-004	3.6220

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

3.7 Architectural Coating - 2041**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	0.1268					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	0.1270	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111

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	7.0000e-005	4.0000e-005	7.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2154	0.2154	0.0000	1.0000e-005	0.2173
Total	7.0000e-005	4.0000e-005	7.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2154	0.2154	0.0000	1.0000e-005	0.2173

Valley's Edge Specific Plan Project - Construction (Phase 4) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:16 AM

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	0.1268					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	0.1270	1.4500e-003	3.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111

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	7.0000e-005	4.0000e-005	7.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2154	0.2154	0.0000	1.0000e-005	0.2173
Total	7.0000e-005	4.0000e-005	7.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2154	0.2154	0.0000	1.0000e-005	0.2173

Construction (Phase 5)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 5)

Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	24.49	1000sqft	0.00	24,490.00	0
Other Asphalt Surfaces	13.40	Acre	13.40	583,704.00	0
Apartments Low Rise	11.00	Dwelling Unit	0.00	20,024.00	31
Single Family Housing	35.00	Dwelling Unit	5.61	121,800.00	100
Free-Standing Discount store	4.60	1000sqft	0.00	4,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 5: VLDR: 35 du, MDR: 11 du, Office: 24.492 ksf, Retail: 4.6 ksf, Paving: 13.4 acres. 5.61 Acre site.

Construction Phase - Construction would occur between 4/1/2042 to 8/30/2043.

Off-road Equipment - Default equipment assumed.

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Grading - Updated disturbed acres.

Trips and VMT - Default trips assumed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water twice daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	300.00	50.00
tblConstructionPhase	NumDays	30.00	9.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	PhaseEndDate	9/14/2043	8/31/2043
tblConstructionPhase	PhaseEndDate	7/20/2043	7/14/2042
tblConstructionPhase	PhaseEndDate	5/26/2042	4/15/2042
tblConstructionPhase	PhaseEndDate	8/17/2043	7/27/2043
tblConstructionPhase	PhaseEndDate	4/14/2042	4/2/2042
tblConstructionPhase	PhaseStartDate	8/18/2043	7/28/2043

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

tblConstructionPhase	PhaseStartDate	5/27/2042	5/6/2042
tblConstructionPhase	PhaseStartDate	4/15/2042	4/3/2042
tblConstructionPhase	PhaseStartDate	7/21/2043	7/15/2043
tblGrading	AcresOfGrading	31.50	5.61
tblGrading	AcresOfGrading	1.00	5.61
tblLandUse	LandUseSquareFeet	11,000.00	20,024.00
tblLandUse	LandUseSquareFeet	63,000.00	121,800.00
tblLandUse	LotAcreage	0.56	0.00
tblLandUse	LotAcreage	0.69	0.00
tblLandUse	LotAcreage	11.36	5.61
tblLandUse	LotAcreage	0.11	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

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					
2042	0.0522	0.2649	0.5394	1.6300e-003	0.0911	3.6000e-003	0.0947	0.0330	3.5700e-003	0.0366	0.0000	152.5750	152.5750	3.9100e-003	5.7800e-003	154.3947
2043	0.6568	0.0292	0.0945	1.7000e-004	4.0600e-003	5.1000e-004	4.5700e-003	1.0800e-003	5.1000e-004	1.5900e-003	0.0000	15.0619	15.0619	4.9000e-004	7.0000e-005	15.0942
Maximum	0.6568	0.2649	0.5394	1.6300e-003	0.0911	3.6000e-003	0.0947	0.0330	3.5700e-003	0.0366	0.0000	152.5750	152.5750	3.9100e-003	5.7800e-003	154.3947

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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					
2042	0.0522	0.2649	0.5394	1.6300e-003	0.0696	3.6000e-003	0.0732	0.0227	3.5700e-003	0.0263	0.0000	152.5749	152.5749	3.9100e-003	5.7800e-003	154.3946
2043	0.6568	0.0292	0.0945	1.7000e-004	4.0600e-003	5.1000e-004	4.5700e-003	1.0800e-003	5.1000e-004	1.5900e-003	0.0000	15.0619	15.0619	4.9000e-004	7.0000e-005	15.0942
Maximum	0.6568	0.2649	0.5394	1.6300e-003	0.0696	3.6000e-003	0.0732	0.0227	3.5700e-003	0.0263	0.0000	152.5749	152.5749	3.9100e-003	5.7800e-003	154.3946

	ROG	NOx	CO	SO2	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	22.58	0.00	21.64	30.39	0.00	27.12	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	4/1/2042	4/2/2042	5	2	
2	Grading	Grading	4/3/2042	4/15/2042	5	9	
3	Building Construction	Building Construction	5/6/2042	7/14/2042	5	50	
4	Paving	Paving	7/15/2043	7/27/2043	5	9	
5	Architectural Coating	Architectural Coating	7/28/2043	8/31/2043	5	25	
6	Trenching	Trenching	4/3/2042	5/5/2042	5	23	

Acres of Grading (Site Preparation Phase): 5.61

Acres of Grading (Grading Phase): 5.61

Acres of Paving: 13.4

Residential Indoor: 287,194; Residential Outdoor: 95,731; Non-Residential Indoor: 43,635; Non-Residential Outdoor: 14,545; Striped Parking Area: 35,022

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	56.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	276.00	106.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2042**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					9.0000e-003	0.0000	9.0000e-003	3.6300e-003	0.0000	3.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963
Total	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005	9.0000e-003	9.0000e-005	9.0900e-003	3.6300e-003	9.0000e-005	3.7200e-003	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963

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	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

Total	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189
-------	-------------	--------	-------------	--------	-------------	--------	-------------	-------------	--------	-------------	--------	--------	--------	--------	--------	--------

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					4.0500e-003	0.0000	4.0500e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963
Total	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005	4.0500e-003	9.0000e-005	4.1400e-003	1.6300e-003	9.0000e-005	1.7200e-003	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963

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	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.3 Grading - 2042**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					0.0301	0.0000	0.0301	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.0385	0.0903	3.5000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	34.8856	34.8856	1.1500e-003	0.0000	34.9145
Total	0.0147	0.0385	0.0903	3.5000e-004	0.0301	1.1900e-003	0.0313	0.0152	1.1900e-003	0.0164	0.0000	34.8856	34.8856	1.1500e-003	0.0000	34.9145

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2529	0.2529	0.0000	1.0000e-005	0.2551
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2529	0.2529	0.0000	1.0000e-005	0.2551

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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					0.0135	0.0000	0.0135	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.0385	0.0903	3.5000e-004		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	34.8856	34.8856	1.1500e-003	0.0000	34.9144
Total	0.0147	0.0385	0.0903	3.5000e-004	0.0135	1.1900e-003	0.0147	6.8500e-003	1.1900e-003	8.0400e-003	0.0000	34.8856	34.8856	1.1500e-003	0.0000	34.9144

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	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2529	0.2529	0.0000	1.0000e-005	0.2551
Total	8.0000e-005	5.0000e-005	8.3000e-004	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.2529	0.2529	0.0000	1.0000e-005	0.2551

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.4 Building Construction - 2042**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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4559	28.4559	1.1400e-003	0.0000	28.4845

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	2.6600e-003	0.1029	0.0351	3.6000e-004	0.0143	5.9000e-004	0.0149	4.1300e-003	5.7000e-004	4.7000e-003	0.0000	34.9290	34.9290	1.3000e-004	5.1500e-003	36.4683
Worker	6.7300e-003	4.1700e-003	0.0710	2.3000e-004	0.0367	8.0000e-005	0.0368	9.7700e-003	8.0000e-005	9.8500e-003	0.0000	21.5411	21.5411	4.1000e-004	6.1000e-004	21.7318
Total	9.3900e-003	0.1071	0.1061	5.9000e-004	0.0510	6.7000e-004	0.0517	0.0139	6.5000e-004	0.0146	0.0000	56.4701	56.4701	5.4000e-004	5.7600e-003	58.2001

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844
Total	0.0145	0.0821	0.2065	3.3000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	28.4558	28.4558	1.1400e-003	0.0000	28.4844

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	2.6600e-003	0.1029	0.0351	3.6000e-004	0.0143	5.9000e-004	0.0149	4.1300e-003	5.7000e-004	4.7000e-003	0.0000	34.9290	34.9290	1.3000e-004	5.1500e-003	36.4683
Worker	6.7300e-003	4.1700e-003	0.0710	2.3000e-004	0.0367	8.0000e-005	0.0368	9.7700e-003	8.0000e-005	9.8500e-003	0.0000	21.5411	21.5411	4.1000e-004	6.1000e-004	21.7318
Total	9.3900e-003	0.1071	0.1061	5.9000e-004	0.0510	6.7000e-004	0.0517	0.0139	6.5000e-004	0.0146	0.0000	56.4701	56.4701	5.4000e-004	5.7600e-003	58.2001

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.5 Paving - 2043**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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984
Total	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	3.7300e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4245	8.4245	3.0000e-004	0.0000	8.4320

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	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984
Total	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.6 Architectural Coating - 2043**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	0.6329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592
Total	0.6348	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592

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	6.8000e-004	4.2000e-004	7.2100e-003	2.0000e-005	3.7200e-003	1.0000e-005	3.7300e-003	9.9000e-004	1.0000e-005	1.0000e-003	0.0000	2.1853	2.1853	4.0000e-005	6.0000e-005	2.2047
Total	6.8000e-004	4.2000e-004	7.2100e-003	2.0000e-005	3.7200e-003	1.0000e-005	3.7300e-003	9.9000e-004	1.0000e-005	1.0000e-003	0.0000	2.1853	2.1853	4.0000e-005	6.0000e-005	2.2047

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	0.6329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592
Total	0.6348	0.0121	0.0299	5.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	4.2554	4.2554	1.5000e-004	0.0000	4.2592

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	6.8000e-004	4.2000e-004	7.2100e-003	2.0000e-005	3.7200e-003	1.0000e-005	3.7300e-003	9.9000e-004	1.0000e-005	1.0000e-003	0.0000	2.1853	2.1853	4.0000e-005	6.0000e-005	2.2047
Total	6.8000e-004	4.2000e-004	7.2100e-003	2.0000e-005	3.7200e-003	1.0000e-005	3.7300e-003	9.9000e-004	1.0000e-005	1.0000e-003	0.0000	2.1853	2.1853	4.0000e-005	6.0000e-005	2.2047

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

3.7 Trenching - 2042**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	0.0124	0.0348	0.1293	3.2000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	29.8385	29.8385	9.9000e-004	0.0000	29.8632
Total	0.0124	0.0348	0.1293	3.2000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	29.8385	29.8385	9.9000e-004	0.0000	29.8632

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	1.1000e-004	7.0000e-005	1.1800e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3590	0.3590	1.0000e-005	1.0000e-005	0.3622
Total	1.1000e-004	7.0000e-005	1.1800e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3590	0.3590	1.0000e-005	1.0000e-005	0.3622

Valley's Edge Specific Plan Project - Construction (Phase 5) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 10:50 AM

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	0.0124	0.0348	0.1293	3.2000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	29.8385	29.8385	9.9000e-004	0.0000	29.8631
Total	0.0124	0.0348	0.1293	3.2000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	29.8385	29.8385	9.9000e-004	0.0000	29.8631

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	1.1000e-004	7.0000e-005	1.1800e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3590	0.3590	1.0000e-005	1.0000e-005	0.3622
Total	1.1000e-004	7.0000e-005	1.1800e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3590	0.3590	1.0000e-005	1.0000e-005	0.3622

Construction (Phase 6)

Annual Emissions

Valley's Edge Specific Plan Project - Construction (Phase 6)
Butte County AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.66	1000sqft	3.00	5,662.00	0
Other Asphalt Surfaces	8.24	Acre	8.24	358,934.40	0
Free-Standing Discount store	0.40	1000sqft	0.00	400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - VESP. Modeling construction only.

Land Use - Phase 6: Office: 5.662 ksf, Retail: 0.4 ksf, Paving: 8.24 acres. 3 Acre site.

Construction Phase - Construction would occur between 4/1/2043 to 7/31/2043.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Default trips assumed.

Grading - Updated acres disturbed.

Architectural Coating - Application of low-VOC architectural coatings (50 g/L).

Construction Off-road Equipment Mitigation - Water twice daily.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblAreaCoating	Area_Parking	0	21536
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	300.00	50.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	20.00	9.00
tblGrading	AcresOfGrading	1.00	3.00
tblGrading	AcresOfGrading	35.00	3.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	203.98
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	PrecipitationFrequency	0	71
tblProjectCharacteristics	WindSpeed	0	2.2

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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					
2043	0.1440	0.1899	0.4657	1.1600e-003	0.0536	3.2200e-003	0.0569	0.0241	3.2200e-003	0.0273	0.0000	107.4045	107.4045	3.4400e-003	1.4400e-003	107.9205
Maximum	0.1440	0.1899	0.4657	1.1600e-003	0.0536	3.2200e-003	0.0569	0.0241	3.2200e-003	0.0273	0.0000	107.4045	107.4045	3.4400e-003	1.4400e-003	107.9205

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					
2043	0.1440	0.1899	0.4657	1.1600e-003	0.0320	3.2200e-003	0.0352	0.0130	3.2200e-003	0.0162	0.0000	107.4044	107.4044	3.4400e-003	1.4400e-003	107.9203
Maximum	0.1440	0.1899	0.4657	1.1600e-003	0.0320	3.2200e-003	0.0352	0.0130	3.2200e-003	0.0162	0.0000	107.4044	107.4044	3.4400e-003	1.4400e-003	107.9203

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

	ROG	NOx	CO	SO2	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	40.32	0.00	38.05	46.14	0.00	40.68	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	4/1/2043	4/2/2043	5	2	
2	Grading	Grading	4/3/2043	4/16/2043	5	10	
3	Building Construction	Building Construction	4/17/2043	6/25/2043	5	50	
4	Paving	Paving	6/26/2043	7/8/2043	5	9	
5	Architectural Coating	Architectural Coating	7/9/2043	7/21/2043	5	9	
6	Trenching	Trenching	4/3/2043	4/16/2043	5	10	

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 3

Acres of Paving: 8.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,093; Non-Residential Outdoor: 3,031; Striped Parking Area: 21,536 (Architectural

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48
Grading	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Excavators	1	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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	2	6.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	70.00	26.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	10.00	0.00	0.00	7.30	6.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2043**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					7.6100e-003	0.0000	7.6100e-003	3.4800e-003	0.0000	3.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963
Total	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005	7.6100e-003	9.0000e-005	7.7000e-003	3.4800e-003	9.0000e-005	3.5700e-003	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963

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	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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					3.4300e-003	0.0000	3.4300e-003	1.5700e-003	0.0000	1.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963
Total	9.9000e-004	2.2400e-003	5.1300e-003	2.0000e-005	3.4300e-003	9.0000e-005	3.5200e-003	1.5700e-003	9.0000e-005	1.6600e-003	0.0000	2.2943	2.2943	8.0000e-005	0.0000	2.2963

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	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189
Total	1.0000e-005	0.0000	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0189

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

3.3 Grading - 2043**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					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.0427	0.1003	3.9000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	38.7618	38.7618	1.2800e-003	0.0000	38.7939
Total	0.0163	0.0427	0.1003	3.9000e-004	0.0317	1.3300e-003	0.0330	0.0167	1.3300e-003	0.0181	0.0000	38.7618	38.7618	1.2800e-003	0.0000	38.7939

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	9.0000e-005	5.0000e-005	9.3000e-004	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.2810	0.2810	1.0000e-005	1.0000e-005	0.2835
Total	9.0000e-005	5.0000e-005	9.3000e-004	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.2810	0.2810	1.0000e-005	1.0000e-005	0.2835

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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					0.0143	0.0000	0.0143	7.5300e-003	0.0000	7.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.0427	0.1003	3.9000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	38.7618	38.7618	1.2800e-003	0.0000	38.7938
Total	0.0163	0.0427	0.1003	3.9000e-004	0.0143	1.3300e-003	0.0156	7.5300e-003	1.3300e-003	8.8600e-003	0.0000	38.7618	38.7618	1.2800e-003	0.0000	38.7938

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	9.0000e-005	5.0000e-005	9.3000e-004	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.2810	0.2810	1.0000e-005	1.0000e-005	0.2835
Total	9.0000e-005	5.0000e-005	9.3000e-004	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.2810	0.2810	1.0000e-005	1.0000e-005	0.2835

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

3.4 Building Construction - 2043**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	0.0146	0.0823	0.2070	3.3000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	28.5166	28.5166	1.1500e-003	0.0000	28.5452
Total	0.0146	0.0823	0.2070	3.3000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	28.5166	28.5166	1.1500e-003	0.0000	28.5452

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	6.5000e-004	0.0253	8.6000e-003	9.0000e-005	3.5000e-003	1.5000e-004	3.6400e-003	1.0100e-003	1.4000e-004	1.1500e-003	0.0000	8.5675	8.5675	3.0000e-005	1.2600e-003	8.9451
Worker	1.7100e-003	1.0600e-003	0.0180	6.0000e-005	9.3100e-003	2.0000e-005	9.3300e-003	2.4800e-003	2.0000e-005	2.5000e-003	0.0000	5.4633	5.4633	1.0000e-004	1.5000e-004	5.5117
Total	2.3600e-003	0.0263	0.0266	1.5000e-004	0.0128	1.7000e-004	0.0130	3.4900e-003	1.6000e-004	3.6500e-003	0.0000	14.0308	14.0308	1.3000e-004	1.4100e-003	14.4567

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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	0.0146	0.0823	0.2070	3.3000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	28.5165	28.5165	1.1500e-003	0.0000	28.5452
Total	0.0146	0.0823	0.2070	3.3000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	28.5165	28.5165	1.1500e-003	0.0000	28.5452

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	6.5000e-004	0.0253	8.6000e-003	9.0000e-005	3.5000e-003	1.5000e-004	3.6400e-003	1.0100e-003	1.4000e-004	1.1500e-003	0.0000	8.5675	8.5675	3.0000e-005	1.2600e-003	8.9451
Worker	1.7100e-003	1.0600e-003	0.0180	6.0000e-005	9.3100e-003	2.0000e-005	9.3300e-003	2.4800e-003	2.0000e-005	2.5000e-003	0.0000	5.4633	5.4633	1.0000e-004	1.5000e-004	5.5117
Total	2.3600e-003	0.0263	0.0266	1.5000e-004	0.0128	1.7000e-004	0.0130	3.4900e-003	1.6000e-004	3.6500e-003	0.0000	14.0308	14.0308	1.3000e-004	1.4100e-003	14.4567

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

3.5 Paving - 2043**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	3.7200e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4186	8.4186	3.0000e-004	0.0000	8.4260
Paving	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4186	8.4186	3.0000e-004	0.0000	8.4260

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	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984
Total	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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	3.7200e-003	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4186	8.4186	3.0000e-004	0.0000	8.4260
Paving	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.0166	0.0568	1.0000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	8.4186	8.4186	3.0000e-004	0.0000	8.4260

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	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984
Total	6.0000e-005	4.0000e-005	6.5000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.1967	0.1967	0.0000	1.0000e-005	0.1984

3.6 Architectural Coating - 2043**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	0.0889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333
Total	0.0896	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333

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	7.0000e-005	4.0000e-005	7.4000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2248	0.2248	0.0000	1.0000e-005	0.2268
Total	7.0000e-005	4.0000e-005	7.4000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2248	0.2248	0.0000	1.0000e-005	0.2268

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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	0.0889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333
Total	0.0896	4.3600e-003	0.0108	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5333

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	7.0000e-005	4.0000e-005	7.4000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2248	0.2248	0.0000	1.0000e-005	0.2268
Total	7.0000e-005	4.0000e-005	7.4000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2248	0.2248	0.0000	1.0000e-005	0.2268

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

3.7 Trenching - 2043**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	5.3900e-003	0.0152	0.0562	1.4000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	12.9733	12.9733	4.3000e-004	0.0000	12.9840
Total	5.3900e-003	0.0152	0.0562	1.4000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	12.9733	12.9733	4.3000e-004	0.0000	12.9840

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	5.0000e-005	3.0000e-005	5.1000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1561	0.1561	0.0000	0.0000	0.1575
Total	5.0000e-005	3.0000e-005	5.1000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1561	0.1561	0.0000	0.0000	0.1575

Valley's Edge Specific Plan Project - Construction (Phase 6) - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 6/9/2021 3:57 PM

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	5.3900e-003	0.0152	0.0562	1.4000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	12.9733	12.9733	4.3000e-004	0.0000	12.9840
Total	5.3900e-003	0.0152	0.0562	1.4000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	12.9733	12.9733	4.3000e-004	0.0000	12.9840

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	5.0000e-005	3.0000e-005	5.1000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1561	0.1561	0.0000	0.0000	0.1575
Total	5.0000e-005	3.0000e-005	5.1000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1561	0.1561	0.0000	0.0000	0.1575

Operations

Annual Emissions

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Valley's Edge Specific Plan Project - Buildout
Butte County AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	272.00	1000sqft	6.24	272,000.00	0
Medical Office Building	136.00	1000sqft	3.12	136,000.00	0
Elementary School	500.00	Student	0.96	41,801.69	0
City Park	8.00	Acre	8.00	348,480.00	0
Apartments Low Rise	162.00	Dwelling Unit	10.13	146,167.00	408
Retirement Community	1,385.00	Dwelling Unit	277.00	2,550,000.00	2138
Single Family Housing	1,230.00	Dwelling Unit	399.35	3,153,800.00	3099
Regional Shopping Center	39.00	1000sqft	0.90	39,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2045
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Valley's Edge Specific Plan Project. BCAQMD. Project buildout in 2045.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use - SF Detached Housing: 1230 DU, MFH Low Rise: 162, Senior Adult Housing: 1385, Shopping: 39 KSF, Office: 272 KSF, Medical: 136 KSF, Elementary School: 500 students, and 7 soccer field. Updated population, 2.52 persons per household, 5,645 residents.

Construction Phase - Modeling operations only.

Off-road Equipment - Modeling operations only.

Trips and VMT - Modeling operations only.

On-road Fugitive Dust - Modeling operations only.

Demolition - Modeling operations only.

Grading - Modeling operations only.

Architectural Coating - Modeling operations only.

Vehicle Trips - Update trip rate and trip length per TRA (Fehr and Peers).

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves - No natural gas fireplaces assumed.

Consumer Products - Updated using 2012 CARB Almanac emissions data.

Area Coating - Adjusted assuming low-VOC arch coatings of 50 g/L.

Energy Use - Default rates adjusted based on assumption of no natural gas in new buildings.

Water And Wastewater - Default water and wastewater. Assumed 100% aerobic.

Solid Waste - Per County data (B. Mannel 2014) Neal Road Landfill captures at least 90% methane with their geomembrane cover.

Energy Mitigation - Assume energy use offset by 28% accounting for PVs.

Water Mitigation - Reduce water consumption by 20% per CalGreen.

Waste Mitigation - Assume 75% waste diverted consistent with AB 341.

Fleet Mix - Update fleet mix per City of Chico traffic data.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	150	50
tblAreaCoating	Area_EF_Residential_Exterior	150	50
tblAreaCoating	Area_EF_Residential_Interior	150	50
tblConstructionPhase	NumDays	480.00	0.00
tblConsumerProducts	ROG_EF	2.14E-05	1.82E-05
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	1.92	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	0.28	0.00
tblEnergyUse	NT24NG	2.08	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	NT24NG	3,723.00	0.00
tblEnergyUse	T24E	147.91	1,382.40
tblEnergyUse	T24E	1.92	17.94
tblEnergyUse	T24E	2.34	21.87
tblEnergyUse	T24E	2.34	21.87
tblEnergyUse	T24E	1.91	17.85
tblEnergyUse	T24E	147.91	1,382.40
tblEnergyUse	T24E	209.15	401.57
tblEnergyUse	T24NG	9,924.02	0.00
tblEnergyUse	T24NG	22.96	0.00
tblEnergyUse	T24NG	12.64	0.00
tblEnergyUse	T24NG	12.64	0.00

Valley's Edge Specific Plan Project - Buildout - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblEnergyUse	T24NG	8.53	0.00
tblEnergyUse	T24NG	9,924.02	0.00
tblEnergyUse	T24NG	20,314.55	0.00
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	FireplaceWoodMass	5,158.40	0.00
tblFireplaces	NumberGas	69.66	0.00
tblFireplaces	NumberGas	595.55	0.00
tblFireplaces	NumberGas	528.90	0.00
tblFireplaces	NumberNoFireplace	29.16	162.00
tblFireplaces	NumberNoFireplace	249.30	1,385.00
tblFireplaces	NumberNoFireplace	221.40	1,230.00
tblFireplaces	NumberWood	63.18	0.00
tblFireplaces	NumberWood	540.15	0.00
tblFireplaces	NumberWood	479.70	0.00
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	HHD	0.02	1.2000e-003
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDA	0.59	0.60
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT1	0.05	0.06
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	LDT2	0.17	0.17
tbIFleetMix	MHD	0.01	0.01
tbIFleetMix	MHD	0.01	0.01
tbIFleetMix	MHD	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblGrading	AcresOfGrading	0.00	720.00
tblLandUse	LandUseSquareFeet	162,000.00	146,167.00
tblLandUse	LandUseSquareFeet	1,385,000.00	2,550,000.00
tblLandUse	LandUseSquareFeet	2,214,000.00	3,153,800.00
tblLandUse	Population	463.00	408.00
tblLandUse	Population	3,961.00	2,138.00
tblLandUse	Population	3,518.00	3,099.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasEnergyRecovery	0.00	90.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	4.00
tblVehicleTrips	CC_TL	6.00	4.63
tblVehicleTrips	CC_TL	6.00	6.34
tblVehicleTrips	CC_TL	6.00	6.74
tblVehicleTrips	CC_TL	6.00	6.71
tblVehicleTrips	CC_TL	6.00	8.57
tblVehicleTrips	CNW_TL	6.00	4.63
tblVehicleTrips	CNW_TL	6.00	6.34
tblVehicleTrips	CNW_TL	6.00	6.74
tblVehicleTrips	CNW_TL	6.00	6.71
tblVehicleTrips	CNW_TL	6.00	8.57
tblVehicleTrips	CW_TL	6.00	4.63
tblVehicleTrips	CW_TL	6.00	6.34
tblVehicleTrips	CW_TL	6.00	6.74
tblVehicleTrips	CW_TL	6.00	6.71
tblVehicleTrips	CW_TL	6.00	8.57
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.90	7.67
tblVehicleTrips	HO_TL	7.90	7.29
tblVehicleTrips	HO_TL	7.90	7.60
tblVehicleTrips	HS_TL	3.00	7.67
tblVehicleTrips	HS_TL	3.00	7.29
tblVehicleTrips	HS_TL	3.00	7.60
tblVehicleTrips	HW_TL	7.30	7.67
tblVehicleTrips	HW_TL	7.30	7.28
tblVehicleTrips	HW_TL	7.30	7.60
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	10.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	60.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00

Valley's Edge Specific Plan Project - Buildout - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	8.14	6.46
tblVehicleTrips	ST_TR	1.96	124.85
tblVehicleTrips	ST_TR	2.21	1.45
tblVehicleTrips	ST_TR	8.57	6.81
tblVehicleTrips	ST_TR	46.12	78.92
tblVehicleTrips	ST_TR	2.03	2.87
tblVehicleTrips	ST_TR	9.54	6.83
tblVehicleTrips	SU_TR	6.28	4.98
tblVehicleTrips	SU_TR	2.19	139.50
tblVehicleTrips	SU_TR	0.70	0.62
tblVehicleTrips	SU_TR	1.42	1.13
tblVehicleTrips	SU_TR	21.10	36.11
tblVehicleTrips	SU_TR	1.95	2.76
tblVehicleTrips	SU_TR	8.55	6.12
tblVehicleTrips	WD_TR	7.32	5.81
tblVehicleTrips	WD_TR	0.78	49.69
tblVehicleTrips	WD_TR	1.89	1.50
tblVehicleTrips	WD_TR	9.74	6.51
tblVehicleTrips	WD_TR	34.80	27.67
tblVehicleTrips	WD_TR	37.75	64.60
tblVehicleTrips	WD_TR	2.40	3.39
tblVehicleTrips	WD_TR	9.44	6.76
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

Valley's Edge Specific Plan Project - Buildout - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00
tblWoodstoves	WoodstoveDayYear	150.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary**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	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,967.1167	2,967.1167	0.4800	0.0582	2,996.4563
Mobile	6.6340	6.6060	67.4638	0.1438	21.0080	0.0654	21.0734	5.6148	0.0611	5.6759	0.0000	14,606.5343	14,606.5343	0.7591	0.6121	14,807.9026
Waste						0.0000	0.0000		0.0000	0.0000	708.5287	0.0000	708.5287	44.1698	0.0000	1,812.7724
Water						0.0000	0.0000		0.0000	0.0000	88.6070	177.6388	266.2458	0.3337	0.1962	333.0487
Total	30.2498	6.8431	88.0015	0.1449	21.0080	0.1798	21.1878	5.6148	0.1754	5.7903	797.1357	17,784.9886	18,582.1243	45.7747	0.8664	19,984.6813

Valley's Edge Specific Plan Project - Buildout - Butte County AQMD Air District, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,136.3241	2,136.3241	0.3456	0.0419	2,157.4485
Mobile	6.6340	6.6060	67.4638	0.1438	21.0080	0.0654	21.0734	5.6148	0.0611	5.6759	0.0000	14,606.5343	14,606.5343	0.7591	0.6121	14,807.9026
Waste						0.0000	0.0000		0.0000	0.0000	177.1322	0.0000	177.1322	11.0424	0.0000	453.1931
Water						0.0000	0.0000		0.0000	0.0000	70.8856	142.1111	212.9966	0.2670	0.1569	266.4390
Total	30.2498	6.8431	88.0015	0.1449	21.0080	0.1798	21.1878	5.6148	0.1754	5.7903	248.0178	16,918.6682	17,166.6859	12.4462	0.8109	17,719.4845

	ROG	NOx	CO	SO2	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	68.89	4.87	7.62	72.81	6.41	11.33

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****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	6.6340	6.6060	67.4638	0.1438	21.0080	0.0654	21.0734	5.6148	0.0611	5.6759	0.0000	14,606.5343	14,606.5343	0.7591	0.6121	14,807.9026
Unmitigated	6.6340	6.6060	67.4638	0.1438	21.0080	0.0654	21.0734	5.6148	0.0611	5.6759	0.0000	14,606.5343	14,606.5343	0.7591	0.6121	14,807.9026

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	941.22	1,046.52	806.76	2,616,143	2,616,143
City Park	397.52	998.80	1116.00	987,694	987,694
Elementary School	750.00	0.00	0.00	1,236,300	1,236,300
General Office Building	1,770.72	394.40	168.64	3,300,344	3,300,344
Medical Office Building	3,763.12	926.16	153.68	6,941,917	6,941,917
Regional Shopping Center	2,519.40	3,077.88	1408.29	7,612,944	7,612,944
Retirement Community	4,695.15	3,974.95	3822.60	11,849,391	11,849,391
Single Family Housing	8,314.80	8,400.90	7527.60	22,724,988	22,724,988
Total	23,151.93	18,819.61	15,003.57	57,269,721	57,269,721

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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
Apartments Low Rise	7.67	7.67	7.67	35.00	17.00	48.00	100	0	0
City Park	4.63	4.63	4.63	33.00	48.00	19.00	100	0	0
Elementary School	6.34	6.34	6.34	65.00	30.00	5.00	100	0	0
General Office Building	6.74	6.74	6.74	33.00	48.00	19.00	100	0	0
Medical Office Building	6.71	6.71	6.71	29.60	51.40	19.00	100	0	0
Regional Shopping Center	8.57	8.57	8.57	16.30	64.70	19.00	100	0	0
Retirement Community	7.28	7.29	7.29	35.00	17.00	48.00	100	0	0
Single Family Housing	7.60	7.60	7.60	35.00	17.00	48.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
City Park	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
Elementary School	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
General Office Building	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
Medical Office Building	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
Regional Shopping Center	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
Retirement Community	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108
Single Family Housing	0.595494	0.055578	0.170571	0.110317	0.017990	0.005255	0.014564	0.001200	0.000500	0.000369	0.025107	0.000949	0.002108

Date: 10/26/2021 2:54 PM

5.0 Energy Detail

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

[illegible]

Date: 10/26/2021 2:54 PM

5.2 Energy by Land Use - NaturalGas

[illegible]

Date: 10/26/2021 2:54 PM

Mitigated

[illegible]

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	869214	80.4230	0.0130	1.5800e- 003	81.2182
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	953915	88.2598	0.0143	1.7300e- 003	89.1325
General Office Building	7.71664e+ 006	713.9726	0.1155	0.0140	721.0326
Medical Office Building	3.85832e+ 006	356.9863	0.0578	7.0000e- 003	360.5163
Regional Shopping Center	930540	86.0971	0.0139	1.6900e- 003	86.9484
Retirement Community	7.69542e+ 006	712.0093	0.1152	0.0140	719.0498
Single Family Housing	1.00446e+ 007	929.3687	0.1504	0.0182	938.5585
Total		2,967.1167	0.4800	0.0582	2,996.4563

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	625834	57.9046	9.3700e-003	1.1400e-003	58.4771
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	686818	63.5470	0.0103	1.2500e-003	64.1754
General Office Building	5.55598e+006	514.0603	0.0832	0.0101	519.1434
Medical Office Building	2.77799e+006	257.0302	0.0416	5.0400e-003	259.5717
Regional Shopping Center	669989	61.9899	0.0100	1.2200e-003	62.6029
Retirement Community	5.5407e+006	512.6467	0.0829	0.0101	517.7159
Single Family Housing	7.23215e+006	669.1454	0.1083	0.0131	675.7621
Total		2,136.3241	0.3456	0.0419	2,157.4485

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Unmitigated	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013

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	1.9435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6148	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Total	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	1.9435					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6148	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013
Total	23.6158	0.2370	20.5377	1.0900e-003		0.1144	0.1144		0.1144	0.1144	0.0000	33.6987	33.6987	0.0321	0.0000	34.5013

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.0 Water Detail**

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	212.9966	0.2670	0.1569	266.4390
Unmitigated	266.2458	0.3337	0.1962	333.0487

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Unmitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	10.555 / 6.65421	11.1735	0.0141	8.2700e-003	13.9885
City Park	0 / 9.53185	3.0867	5.0000e-004	6.0000e-005	3.1173
Elementary School	1.21212 / 3.11688	2.0450	1.7400e-003	9.6000e-004	2.3758
General Office Building	48.3436 / 29.6299	50.9022	0.0643	0.0379	63.7925
Medical Office Building	17.0654 / 3.25054	15.6341	0.0223	0.0133	20.1613
Regional Shopping Center	2.88883 / 1.77057	3.0417	3.8400e-003	2.2600e-003	3.8120
Retirement Community	90.2383 / 56.8894	95.5266	0.1202	0.0707	119.5927
Single Family Housing	80.1395 / 50.5227	84.8359	0.1067	0.0628	106.2087
Total		266.2458	0.3337	0.1962	333.0487

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	8.44396 / 5.32337	8.9388	0.0113	6.6100e-003	11.1908
City Park	0 / 7.62548	2.4694	4.0000e-004	5.0000e-005	2.4938
Elementary School	0.969696 / 2.4935	1.6360	1.3900e-003	7.7000e-004	1.9007
General Office Building	38.6749 / 23.7039	40.7218	0.0515	0.0303	51.0340
Medical Office Building	13.6523 / 2.60043	12.5073	0.0179	0.0107	16.1290
Regional Shopping Center	2.31106 / 1.41646	2.4334	3.0800e-003	1.8100e-003	3.0496
Retirement Community	72.1907 / 45.5115	76.4213	0.0961	0.0565	95.6742
Single Family Housing	64.1116 / 40.4182	67.8687	0.0854	0.0502	84.9670
Total		212.9966	0.2670	0.1569	266.4390

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	177.1322	11.0424	0.0000	453.1931
Unmitigated	708.5287	44.1698	0.0000	1,812.7724

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	74.52	14.3403	0.8940	0.0000	36.6896
City Park	0.69	0.1328	8.2800e-003	0.0000	0.3397
Elementary School	91.25	17.5597	1.0947	0.0000	44.9265
General Office Building	252.96	48.6784	3.0346	0.0000	124.5438
Medical Office Building	1468.8	282.6487	17.6203	0.0000	723.1573
Regional Shopping Center	40.95	7.8802	0.4913	0.0000	20.1616
Retirement Community	637.1	122.6004	7.6429	0.0000	313.6734
Single Family Housing	1115.64	214.6883	13.3837	0.0000	549.2805
Total		708.5287	44.1697	0.0000	1,812.7724

CalEEMod Version: CalEEMod.2020.4.0

Date: 10/26/2021 2:54 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	18.63	3.5851	0.2235	0.0000	9.1724
City Park	0.1725	0.0332	2.0700e-003	0.0000	0.0849
Elementary School	22.8125	4.3899	0.2737	0.0000	11.2316
General Office Building	63.24	12.1696	0.7587	0.0000	31.1359
Medical Office Building	367.2	70.6622	4.4051	0.0000	180.7893
Regional Shopping Center	10.2375	1.9701	0.1228	0.0000	5.0404
Retirement Community	159.275	30.6501	1.9107	0.0000	78.4184
Single Family Housing	278.91	53.6721	3.3459	0.0000	137.3201
Total		177.1322	11.0424	0.0000	453.1931

Energy Calculations

VESP - Construction Energy Use

Phase 1

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	5.73	0.00	0.00	0.14
Trenching	321.99	0.00	0.00	8.19
Grading	387.92	0.00	0.00	4.84
Building Construction	311.82	0.00	817.42	818.97
Paving	93.56	0.00	0.00	3.41
Architectural Coating	6.81	0.00	0.00	9.58

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	561.38	15.82	0.00	0.00
10.21	8.78	31,536.48	932.24	0.00	0.00
10.21	8.78	37,994.17	551.74	0.00	0.00
10.21	8.78	30,540.35	93,276.41	80,060.87	0.00
10.21	8.78	9,163.94	388.54	0.00	0.00
10.21	8.78	666.87	1,091.61	0.00	0.00

Phase 2

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	42.17	0.00	0.00	1.04
Trenching	598.56	0.00	0.00	10.57
Grading	713.90	0.00	0.00	7.76
Building Construction	500.78	0.00	1,679.51	1,639.92
Paving	206.72	0.00	0.00	5.27
Architectural Coating	37.62	0.00	0.00	76.79

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	4,130.47	118.39	0.00	0.00
10.21	8.78	58,624.78	1,204.05	0.00	0.00
10.21	8.78	69,921.20	884.16	0.00	0.00
10.21	8.78	49,047.86	186,779.41	164,496.26	0.00
10.21	8.78	20,247.02	600.24	0.00	0.00
10.21	8.78	3,684.42	8,746.37	0.00	0.00

Phase 3

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	34.41	0.00	0.00	0.61
Trenching	495.58	0.00	0.00	6.44
Grading	593.06	0.00	0.00	4.69
Building Construction	478.63	0.00	1,153.80	1,045.24
Paving	143.12	0.00	0.00	3.53
Architectural Coating	26.04	0.00	0.00	38.30

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	3,370.71	69.81	0.00	0.00
10.21	8.78	48,538.56	733.42	0.00	0.00
10.21	8.78	58,085.76	534.00	0.00	0.00
10.21	8.78	46,878.33	119,048.15	113,006.49	0.00
10.21	8.78	14,017.19	401.81	0.00	0.00
10.21	8.78	2,550.75	4,362.48	0.00	0.00

Phase 4

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	11.47	0.00	0.00	0.10
Trenching	171.25	0.00	0.00	2.17
Grading	205.44	0.00	0.00	1.57
Building Construction	165.61	0.00	121.09	105.24
Paving	49.58	0.00	0.00	1.16
Architectural Coating	8.51	0.00	0.00	3.59

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	1,123.57	11.25	0.00	0.00
10.21	8.78	16,772.49	247.61	0.00	0.00
10.21	8.78	20,121.23	178.95	0.00	0.00
10.21	8.78	16,220.68	11,986.77	11,860.32	0.00
10.21	8.78	4,855.62	131.91	0.00	0.00
10.21	8.78	833.58	408.91	0.00	0.00

Phase 5

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Site Preparation	2.29	0.00	0.00	0.02
Trenching	29.86	0.00	0.00	0.36
Grading	34.89	0.00	0.00	0.25
Building Construction	28.46	0.00	34.93	21.54
Paving	8.42	0.00	0.00	0.20
Architectural Coating	4.26	0.00	0.00	2.19

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	224.71	2.13	0.00	0.00
10.21	8.78	2,924.90	40.89	0.00	0.00
10.21	8.78	3,416.81	28.80	0.00	0.00
10.21	8.78	2,787.06	2,453.43	3,421.06	0.00
10.21	8.78	825.12	22.40	0.00	0.00
10.21	8.78	416.79	248.90	0.00	0.00

Phase 6

	CO2 MT/yr				Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
	Equipment	Hauling	Vendor	Worker						
Site Preparation	2.29	0.00	0.00	0.02	10.21	8.78	224.71	2.13	0.00	0.00
Trenching	12.97	0.00	0.00	0.16	10.21	8.78	1,270.65	17.78	0.00	0.00
Grading	38.76	0.00	0.00	0.28	10.21	8.78	3,796.45	32.00	0.00	0.00
Building Construction	28.52	0.00	8.57	5.46	10.21	8.78	2,793.01	622.24	839.13	0.00
Paving	8.42	0.00	0.00	0.20	10.21	8.78	824.54	22.40	0.00	0.00
Architectural Coating	1.53	0.00	0.00	0.22	10.21	8.78	150.05	25.60	0.00	0.00
Total	5,810.94	0.00	3,815.32	3,830.04			569,142.20	436,222.77	373,684.13	0.00

California's Consumption of Petroleum Over Construction Period

Phase 1	145,174,200,000.00
Phase 2	188,954,400,000.00
Phase 3	171,505,200,000.00
Phase 4	50,539,800,000.00
Phase 5	40,636,200,000.00
Phase 6	8,724,600,000.00
Total	605,534,400,000.00

VESP - Operational Energy Use

Total Electricity	kWh/yr
Apartments Low Rise	625,834.00
City Park	0.00
Elementary School	686,818.00
General Office Building	5,555,980.00
Medical Office Building	2,888,990.00
Regional Shopping Center	669,989.00
Retirement Community	5,540,700.00
Single Family Housing	6,892,400.00
Building Total	22,860,711.00
Water/Wastewater	
Total	24,396,652.60

Electricity Intensity Factors - Water/Wastewater

Process	Units	
Supply	kwh/MG	2117
Treat	kwh/MG	111
Distribute	kwh/MG	1272
Wastewater Treatment	kwh/MG	1911
Total	kwh/MG	5,411

* Electricity intensity factors from CalEEMod Appendix D for BCAQMD

Electricity Demand - Water/Wastewater

	Units	Potable Water - Indoor	Potable Water - Outdoor	Total
Electricity Intensity Factor				
Supply	kwh/MG	2,117	2,117	N/A
Treat	kwh/MG	111	111	N/A
Distribute	kwh/MG	1,272	1,272	N/A
Wastewater Treatment	kwh/MG	1,911	-	N/A
Total	kwh/MG	5,411	3,500	N/A
Water Consumption - Project	MG/yr	200	129	329
Electricity Usage - Project	kwh/yr	1,084,117	451,825	1,535,941.60

Project - Land Uses	Mgal - Indoor	Mgal - Outdoor
Apartments Low Rise	8.44396	5.32337
City Park	0	7.62548
Elementary School	0.969696	2.4935
General Office Building	38.6749	23.7039
Medical Office Building	13.6523	2.60043
Regional Shopping Center	2.31106	1.41646
Retirement Community	72.1907	45.5115
Single Family Housing	64.1116	40.4182
	200.354216	129.09284

VESP - Operational Energy Use

	Annual VMT	Annual CO2 MT	% GAS	% DSL	MT CO2 GAS	MT CO2 DSL	Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Diesel Gallons/yr	Gasoline Gallons/yr	Petro Gallons/yr
Project	53,311,911.00	13,600.02	88.9599812	11.0400188	12,098.58	1,501.45	10.21	8.78	147,056.35	1,377,970.32	1,525,026.67