

# **APPENDIX B.1**

## **CalEEMod Outputs**

## Appendix B.1 CalEEMod Parameters

### Proposed Project (Operational) Scenario

- Project Location: Sacramento County
- Climate Zone: 6
- Land Use Setting: Urban
- Operational Year: **2035**
- Utility Company: Sacramento Municipal Utility District
- Land Uses:

LAND USE TYPE AND SUBTYPE	UNIT AMOUNT AND METRIC	LOT ACREAGE	SQUARE FOOTAGE	POPULATION
Retail - Regional Shopping Center	32,000 sf	5.16	32,000	0
Residential - Apartments Mid-Rise (Multi-Family Residential)	215 units	7.17	215,000	621
Residential - Retirement Community (Active Adult Multi-Family Residential - attached)	38 units	1.26	38,000	78
Residential - Single-Family Residential (Traditional Single-Family Residential)	735 units	77.87	1,323,600	2,087
Residential - Retirement Community (Active Adult Single Family Residential - detached)	737 units	90.91	737,000	1,533
Recreational – City Park (Lot D – turf and play areas, and soccer field) (also includes 8,000 sf for restrooms)	9.1 acre – turf/play/fields 8,000 sf – restrooms	9.28	387,684	0
– Parking Other Asphalt Surface (Lot D – walking path)	1 acre	1	43,560	0
Parking – Parking Lot (Lot D)	0.5 acre	0.5	44,866.8	0
Recreational – City Park (Lot A – grass area) (also includes 21,000 sf for clubhouse and restrooms)	3.07 acres - turf, recreation 21,000 sf clubhouse	3.69	133,729	0
Parking – (Lot A, parking)	0.5 acres	0.5		
Parking – Other Asphalt Surfaces (open space lots, walking path)	2.5 acres	2.5	108,900	0
Parking – Parking Lot (open space lots)	0.5	0.5		
Park (Lot C, Linear Tree and Natural Landscaping Feature))	0.5 acres – Park; 0.9 acres – passive uses (passive park uses are treated as open space and not modeled in CalEEMod)	1.4		
Park (Lot B, Community Garden)	1.58 – passive uses (passive park uses are treated as open space and	1.58		

	not modeled in CalEEMod)			
Park (Lot U, Passive Park))	1.21 (passive park uses are treated as open space and not modeled in CalEEMod)	1.21		
<b>Subtotal</b>		<b>204.53</b>		
Open Space (257.24 acres less 2.5 acres of paved/asphalt trails, 0.5 ac of parking)		254.24		
Roadways		71.33		
<b>TOTAL</b>		<b>530.1</b>		

Land Use data as provided by the project applicant.

Population = Population as calculated based on best available data. Consistent with what is provided in the Population and Housing section of the EIR (The population for non-age restricted single-family units were calculated using 2.84 persons per household. The population for non-age restricted multifamily units were calculated using 2.89 persons per household. The population for age-restricted single-family units were calculated using 2.08 persons per household. The population for age-restricted multifamily units was calculated using 2.05 person per household. All of these persons per household rates are from the 2013-2017 American Community Survey).

- Operational – Mobile:
  - Trip rates derived from the Traffic Analyses (Kimley Horn) (June 2019) (internal capture rate applied):
    - Apartments Mid-Rise: 5.36 trips/dwelling unit
    - Regional Shopping Center: 28.06 trips/dwelling unit
    - Retirement Community: 3.20 trips/dwelling unit (note – this is a weighted average of the two Retirement Community subtypes – attached and detached).
    - Single Family Housing: 8.7 trips/dwelling unit
  - Fleet Mix: Default CalEEMod values were used.
- Operational – Area
  - No woodstoves or fireplaces.
  - Consumer Products:
  - The “general category” emission factor was adjusted from default value (reduced by a total of 29.10%), based on the following differences between proposed project attributes and the inputs used to develop the default value (the default value utilizes statewide factors from year 2008):
    - The proposed project is estimated to have a persons per dwelling unit (persons/du) value of 2.504, versus the current statewide average of 2.971. This is a difference of 18.60%
    - The CARB estimated total statewide year 2016 ROG emissions of 208.71 tons/year, which is 12.89% less than the amount estimated for year 2008 (239.6 tons/year).
    - 3.5 out of the total 5.0 acres of parking lot – other asphalt surfaces modeled would be developed as walking paths.
  - Architectural Coatings:

<sup>1</sup> California Department of Finance, Table 2: E-5 City/County Population and Housing Estimates (1/1/2018).

- The residential interior and non-residential interior emission factors were reduced from 100 g/L to 50 g/L, based on the SMAQMD Rule 442 that provides a maximum VOC limit of 50 g/L for flat coatings. It was assumed that flat coatings are used for interior coatings.
  
- Vegetation
  - Land Use Change: Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres of grassland remaining.
  - Approximately 2,240 new trees planted as part of the project (provided by project applicant). These were modeled as “miscellaneous” trees.
  
- Mitigation Measures (Operational) (Unmitigated):
  - Low Density Suburban (Project Setting)
  - Increase density to 6.86 dwelling units per acre;
  - Increase diversity;
  - Improve walkability design (123.53 intersections per square miles);
  - Improve destination accessibility (12.3 miles to downtown);
  - Increase transit accessibility (project site would include a bus/transit facilities – distance to transit for nearby residents would be approximately 0.25 miles);
  - Expand transit network (100% increase in coverage);
  - Provide traffic calming measures (50% of streets and intersections with improvements);
  - Improve pedestrian network (project site and connecting off-site);
  - Implement NEV network
  - Plant a minimum of 2,240 new trees throughout the project site;
  - No hearths.
  - Install energy efficient (i.e. LED) street lighting (for outdoor lighting);
  - Generate 95% or more of electricity via renewable energy (on-site energy generation and/or contract with SMUD);
  - Install energy efficient appliances;
  - Install low-flow appliances (bathroom faucet, kitchen faucet, toilet, and shower); and
  - Use water-efficient irrigation systems.
  - Turf Reduction: 70%

Proposed Project (Operational – without car and light-duty truck trips) Scenario

Note: all parameters are the same under this scenario as under the “Operational” scenario, except for the following:

- Operational – Mobile:
  - Trip rates derived from the Traffic Analyses (Kimley Horn) (June 2019) – modified to reflect the proportion of trips not due to cars or light-duty trucks (i.e. across-the-board reduction in trip rates by approximately 81.7%):
    - Apartments Mid-Rise: 0.98 trips/dwelling unit
    - Regional Shopping Center: 5.14 trips/dwelling unit
    - Retirement Community: 0.59 trips/dwelling unit
    - Single Family Housing: 1.59 trips/dwelling unit
  - Fleet Mix: Default CalEEMod values were used, except for car and light-duty truck fleet categories (LDA, LDT1, and LDT2). LDA, LDT1, and LDT2 trips were removed from the fleet

mix, and the remainder categories were reapportioned based on their relative size under the default scenario.

#### Proposed Project (Construction) Scenario – Phase 1

- Includes:
  - Phase I Clubhouse and associated landscaping (Lot A) – 1/3 of the building complex (about 7000 sf);
  - 270 single family residential units;
  - 232 single family residential units – age restricted.

#### Construction Tab – Phasing:

- Site Prep: 64 days (note: site prep for both phases 1 and 2)
  - 1/1/2020 – 3/30/2020
- Grading: 153 days
  - 4/1/2020 – 11/01/2020
- Paving: 65 days
  - 11/1/2020 – 1/30/2021
- Building Construction: 586 days
  - 2/1/2021 – 5/1/2023
- Architectural Coating: 587 days
  - 5/2/2021 – 8/1/2023
- Construction Tab – Off-Road Equipment:
  - Default CalEEMod values used.
- Construction Tab – Fleet Mix:
  - Default values used.

#### Proposed Project (Construction) Scenario – Phase 2

This phase includes the following:

- 197 single family residential units
- 210 single family residential units – age restricted.
- Neighborhood Park 2.2 ac (lot Q)
- Liner Park Lot C (1.4ac)
- Phase 2 Clubhouse building (~7000 sf) April 2023-June 2024

#### Construction Tab – Phasing:

- Improvements for Phase 2: 131 days
  - 4/1/2022 – 9/30/2022
- Paving: 65 days
  - 10/1/2022 – 12/31/2022
- Building Construction: 609 days
  - 4/1/2023 – 7/31/2025
- Architectural Coating: 609 days
  - 8/1/2023 – 11/30/2025
- Construction Tab – Off-Road Equipment:
  - Default CalEEMod values used.
- Construction Tab – Fleet Mix:
  - Default values used.

### Proposed Project (Construction) Scenario – Phase 3

- This phase includes the following:
  - 268 single family residential units
  - 295 single family residential units – age restricted
  - 16 senior multi-family residential units
  - Open Space (Lot T) – 1.2 acres
  - Rancho Cordova Parkway Widening
  - Phase 3 clubhouse (~7000 sf) -April 2028-August 2029
  - Lot B (Park)

#### Construction Tab – Phasing:

- Site Prep: 43 days
  - 2/1/2025 – 4/27/2025
- Grading: 132 days
  - 4/28/2025 – 10/1/2025
- Paving: 65 days
  - 10/2/2025 – 12/31/2025
- Building Construction: 717 days
  - 1/1/2026 – 9/30/2028
- Architectural Coating: 718 days
  - 4/1/2026 – 12/31/2028
- Site Preparation and grading for Rancho Cordova widening: 196 days
  - 1/1/2027 – 10/1/2027
- Paving for Rancho Cordova widening: 86 days
  - 10/2/2027 – 01/31/2028
- Site Prep (note: for park – Lot D): 260 days
  - 4/1/2028 – 4/1/2029
- Construction Tab – Off-Road Equipment:
  - Default CalEEMod values used.
- Construction Tab – Fleet Mix:
  - Default values used.

### Proposed Project (Construction) Scenario – Phase 4

- This phase includes the following:
  - 215 multi-family residential units
  - 22 senior multi-family residential units

#### Construction Tab – Phasing:

- Site Preparation for Commercial and MFR: 41 days
  - 3/1/2030 – 4/27/2030
- Grading and Improvements: 85 days
  - 4/28/2030 – 8/1/2030
- Paving: 65 days
  - 8/2/2030 – 10/31/2030
- Building Construction: 459 days
  - 4/1/2031 – 1/1/2033
- Architectural Coating: 108 days

- 1/2/2033 – 6/1/2033
- Construction Tab – Off-Road Equipment:
  - Default CalEEMod values used.
- Construction Tab – Fleet Mix:
  - Default CalEEMod values used.

Proposed Project (Construction) Scenario – Phase 5

This phase includes the following:

- Commercial center.

Construction Tab – Phasing:

- Site Preparation for commercial center: 42 days
  - 3/1/2034 – 4/27/2034
- Grading and Improvements: 67 days
  - 4/28/2034 – 7/31/2034
- Paving: 24 days
  - 8/1/2034 – 9/1/2034
- Building Construction: 260 days
  - 10/1/2034 – 8/31/2035
- Architectural Coating: 86 days
  - 9/1/2035 – 12/31/2035
- Construction Tab – Off-Road Equipment:
  - Default CalEEMod values used.
- Construction Tab – Fleet Mix:
  - Default CalEEMod values used.

Proposed Project (Construction) Scenario – All Phases

Note: Site preparation and grading activities for Phases 1 and 2 are accounted for in Phase 1.

Construction Tab – Dust from Material Movement:

- Grading as modeled includes area for roadways, apportioned based on the acreages developed per construction phase. Grading for phases 1 and 2 would occur under phase 1 (per the Project Applicant).
- Cut and fill: net export of 152,708 cubic yards (CY) (prorated for phase 1 and 3 at 76,354 cubic yards for each phase).

Mitigation Measures (Construction):

- Water exposed area 2 time daily;
- Unpaved road mitigation = 15 mph;
- Clean paved road = 9% reduction.

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	270.00	Dwelling Unit	28.61	486,000.00	767
Retirement Community	232.00	Dwelling Unit	28.62	232,000.00	463
City Park	1.02	Acre	1.23	44,576.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Estimated construction state date of January 2020 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 1

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D



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Off-road Equipment -  
Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 148.53 (res./comm./right of way) this phase (includes phases 1 and 2). Assume 1/2 of site is exported during this this phase (152,708 CY / 2 = 76,354 CY). Total net export for entire project (152,708 CY) as provided by applicant.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%. NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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tblConstructionPhase	NumDays	40.00	64.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	586.00
tblConstructionPhase	NumDays	75.00	587.00
tblConstructionPhase	PhaseEndDate	2/25/2020	3/30/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	2/11/2025	1/29/2021
tblConstructionPhase	PhaseEndDate	10/29/2024	5/1/2023
tblConstructionPhase	PhaseEndDate	5/27/2025	8/1/2023
tblConstructionPhase	PhaseStartDate	2/26/2020	4/1/2020
tblConstructionPhase	PhaseStartDate	10/30/2024	11/1/2020
tblConstructionPhase	PhaseStartDate	7/29/2020	2/1/2021
tblConstructionPhase	PhaseStartDate	2/12/2025	5/2/2021
tblGrading	AcresOfGrading	382.50	148.53
tblLandUse	LandUseSquareFeet	44,431.20	44,576.40
tblLandUse	LotAcreage	87.66	28.61
tblLandUse	LotAcreage	46.40	28.62
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	721.00	767.00
tblLandUse	Population	619.00	463.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	0.00	9,544.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00

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**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					
2020	0.5465	6.8842	3.8328	0.0104	1.2160	0.2582	1.4742	0.6064	0.2377	0.8441	0.0000	948.8146	948.8146	0.2053	0.0000	953.9478
2021	1.4252	4.7568	5.3413	0.0112	0.8937	0.2160	1.1097	0.2277	0.2018	0.4294	0.0000	1,001.8066	1,001.8066	0.1700	0.0000	1,006.0559
2022	1.8233	4.5275	5.5771	0.0120	0.9817	0.1940	1.1757	0.2502	0.1816	0.4318	0.0000	1,070.7478	1,070.7478	0.1760	0.0000	1,075.1479
2023	0.9189	1.4037	1.9018	4.1400e-003	0.3385	0.0586	0.3971	0.0864	0.0550	0.1414	0.0000	368.8509	368.8509	0.0582	0.0000	370.3048
<b>Maximum</b>	<b>1.8233</b>	<b>6.8842</b>	<b>5.5771</b>	<b>0.0120</b>	<b>1.2160</b>	<b>0.2582</b>	<b>1.4742</b>	<b>0.6064</b>	<b>0.2377</b>	<b>0.8441</b>	<b>0.0000</b>	<b>1,070.7478</b>	<b>1,070.7478</b>	<b>0.2053</b>	<b>0.0000</b>	<b>1,075.1479</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.5465	6.8842	3.8328	0.0104	0.5945	0.2582	0.8527	0.2860	0.2377	0.5237	0.0000	948.8140	948.8140	0.2053	0.0000	953.9471
2021	1.4252	4.7568	5.3413	0.0112	0.8182	0.2160	1.0342	0.2091	0.2018	0.4109	0.0000	1,001.8060	1,001.8060	0.1700	0.0000	1,006.0553
2022	1.8233	4.5275	5.5771	0.0120	0.8989	0.1940	1.0928	0.2299	0.1816	0.4115	0.0000	1,070.7471	1,070.7471	0.1760	0.0000	1,075.1472
2023	0.9189	1.4037	1.9018	4.1400e-003	0.3101	0.0586	0.3686	0.0795	0.0550	0.1344	0.0000	368.8506	368.8506	0.0582	0.0000	370.3045
<b>Maximum</b>	<b>1.8233</b>	<b>6.8842</b>	<b>5.5771</b>	<b>0.0120</b>	<b>0.8989</b>	<b>0.2582</b>	<b>1.0928</b>	<b>0.2860</b>	<b>0.2377</b>	<b>0.5237</b>	<b>0.0000</b>	<b>1,070.7471</b>	<b>1,070.7471</b>	<b>0.2053</b>	<b>0.0000</b>	<b>1,075.1472</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>23.57</b>	<b>0.00</b>	<b>19.44</b>	<b>31.28</b>	<b>0.00</b>	<b>19.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.4984	1.4984
2	4-1-2020	6-30-2020	2.3582	2.3582
3	7-1-2020	9-30-2020	2.3842	2.3842
4	10-1-2020	12-31-2020	1.1234	1.1234
5	1-1-2021	3-31-2021	1.0303	1.0303
6	4-1-2021	6-30-2021	1.6072	1.6072
7	7-1-2021	9-30-2021	1.7561	1.7561
8	10-1-2021	12-31-2021	1.7618	1.7618

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9	1-1-2022	3-31-2022	1.5755	1.5755
10	4-1-2022	6-30-2022	1.5881	1.5881
11	7-1-2022	9-30-2022	1.6056	1.6056
12	10-1-2022	12-31-2022	1.6105	1.6105
13	1-1-2023	3-31-2023	1.4595	1.4595
14	4-1-2023	6-30-2023	0.7464	0.7464
15	7-1-2023	9-30-2023	0.1306	0.1306
		Highest	2.3842	2.3842

**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	3.4386	0.0595	5.1588	2.7000e-004		0.0287	0.0287		0.0287	0.0287	0.0000	8.4565	8.4565	8.0500e-003	0.0000	8.6577
Energy	0.0528	0.4508	0.1918	2.8800e-003		0.0364	0.0364		0.0364	0.0364	0.0000	1,423.4967	1,423.4967	0.0543	0.0187	1,430.4365
Mobile	0.4555	2.3639	5.3211	0.0251	2.9466	0.0128	2.9595	0.7890	0.0119	0.8009	0.0000	2,322.3684	2,322.3684	0.0846	0.0000	2,324.4842
Waste						0.0000	0.0000		0.0000	0.0000	77.7313	0.0000	77.7313	4.5938	0.0000	192.5761
Water						0.0000	0.0000		0.0000	0.0000	11.5719	64.0992	75.6711	0.0430	0.0258	84.4389
<b>Total</b>	<b>3.9468</b>	<b>2.8742</b>	<b>10.6717</b>	<b>0.0282</b>	<b>2.9466</b>	<b>0.0780</b>	<b>3.0246</b>	<b>0.7890</b>	<b>0.0771</b>	<b>0.8660</b>	<b>89.3032</b>	<b>3,818.4209</b>	<b>3,907.7241</b>	<b>4.7837</b>	<b>0.0446</b>	<b>4,040.5935</b>



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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,057.243 0
<b>Total</b>	<b>528.6770</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	3/30/2020	5	64	
2	Grading	Grading	4/1/2020	10/30/2020	5	153	
3	Paving	Paving	11/1/2020	1/29/2021	5	65	
4	Building Construction	Building Construction	2/1/2021	5/1/2023	5	586	
5	Architectural Coating	Architectural Coating	5/2/2021	8/1/2023	5	587	

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

**Acres of Grading (Grading Phase): 148.53**

**Acres of Paving: 0**

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**Residential Indoor: 1,453,950; Residential Outdoor: 484,650; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	9,544.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	283.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5781	0.0000	0.5781	0.3178	0.0000	0.3178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1305	1.3574	0.6884	1.2200e-003		0.0703	0.0703		0.0647	0.0647	0.0000	106.9782	106.9782	0.0346	0.0000	107.8432
<b>Total</b>	<b>0.1305</b>	<b>1.3574</b>	<b>0.6884</b>	<b>1.2200e-003</b>	<b>0.5781</b>	<b>0.0703</b>	<b>0.6484</b>	<b>0.3178</b>	<b>0.0647</b>	<b>0.3825</b>	<b>0.0000</b>	<b>106.9782</b>	<b>106.9782</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.8432</b>

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**3.2 Site Preparation - 2020**

**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	2.1400e-003	1.4500e-003	0.0159	4.0000e-005	4.2300e-003	3.0000e-005	4.2600e-003	1.1300e-003	3.0000e-005	1.1500e-003	0.0000	3.7482	3.7482	1.1000e-004	0.0000	3.7509
<b>Total</b>	<b>2.1400e-003</b>	<b>1.4500e-003</b>	<b>0.0159</b>	<b>4.0000e-005</b>	<b>4.2300e-003</b>	<b>3.0000e-005</b>	<b>4.2600e-003</b>	<b>1.1300e-003</b>	<b>3.0000e-005</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>3.7482</b>	<b>3.7482</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7509</b>

**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					0.2602	0.0000	0.2602	0.1430	0.0000	0.1430	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1305	1.3574	0.6884	1.2200e-003		0.0703	0.0703		0.0647	0.0647	0.0000	106.9781	106.9781	0.0346	0.0000	107.8430
<b>Total</b>	<b>0.1305</b>	<b>1.3574</b>	<b>0.6884</b>	<b>1.2200e-003</b>	<b>0.2602</b>	<b>0.0703</b>	<b>0.3305</b>	<b>0.1430</b>	<b>0.0647</b>	<b>0.2077</b>	<b>0.0000</b>	<b>106.9781</b>	<b>106.9781</b>	<b>0.0346</b>	<b>0.0000</b>	<b>107.8430</b>

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**3.2 Site Preparation - 2020**

**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	2.1400e-003	1.4500e-003	0.0159	4.0000e-005	3.9000e-003	3.0000e-005	3.9300e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.7482	3.7482	1.1000e-004	0.0000	3.7509
<b>Total</b>	<b>2.1400e-003</b>	<b>1.4500e-003</b>	<b>0.0159</b>	<b>4.0000e-005</b>	<b>3.9000e-003</b>	<b>3.0000e-005</b>	<b>3.9300e-003</b>	<b>1.0400e-003</b>	<b>3.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.7482</b>	<b>3.7482</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7509</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5395	0.0000	0.5395	0.2617	0.0000	0.2617	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3404	3.8401	2.4448	4.7400e-003		0.1663	0.1663		0.1530	0.1530	0.0000	416.8048	416.8048	0.1348	0.0000	420.1749
<b>Total</b>	<b>0.3404</b>	<b>3.8401</b>	<b>2.4448</b>	<b>4.7400e-003</b>	<b>0.5395</b>	<b>0.1663</b>	<b>0.7058</b>	<b>0.2617</b>	<b>0.1530</b>	<b>0.4147</b>	<b>0.0000</b>	<b>416.8048</b>	<b>416.8048</b>	<b>0.1348</b>	<b>0.0000</b>	<b>420.1749</b>

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**3.3 Grading - 2020**

**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	0.0367	1.3711	0.3098	3.7600e-003	0.0805	4.9100e-003	0.0854	0.0221	4.6900e-003	0.0268	0.0000	365.1176	365.1176	0.0212	0.0000	365.6482
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	5.7000e-003	3.8600e-003	0.0424	1.1000e-004	0.0112	8.0000e-005	0.0113	2.9900e-003	7.0000e-005	3.0600e-003	0.0000	9.9563	9.9563	2.8000e-004	0.0000	9.9633
<b>Total</b>	<b>0.0424</b>	<b>1.3750</b>	<b>0.3522</b>	<b>3.8700e-003</b>	<b>0.0918</b>	<b>4.9900e-003</b>	<b>0.0967</b>	<b>0.0251</b>	<b>4.7600e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>375.0739</b>	<b>375.0739</b>	<b>0.0215</b>	<b>0.0000</b>	<b>375.6115</b>

**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					0.2428	0.0000	0.2428	0.1178	0.0000	0.1178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3404	3.8401	2.4448	4.7400e-003		0.1663	0.1663		0.1530	0.1530	0.0000	416.8044	416.8044	0.1348	0.0000	420.1744
<b>Total</b>	<b>0.3404</b>	<b>3.8401</b>	<b>2.4448</b>	<b>4.7400e-003</b>	<b>0.2428</b>	<b>0.1663</b>	<b>0.4091</b>	<b>0.1178</b>	<b>0.1530</b>	<b>0.2708</b>	<b>0.0000</b>	<b>416.8044</b>	<b>416.8044</b>	<b>0.1348</b>	<b>0.0000</b>	<b>420.1744</b>

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**3.3 Grading - 2020**

**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	0.0367	1.3711	0.3098	3.7600e-003	0.0751	4.9100e-003	0.0800	0.0208	4.6900e-003	0.0255	0.0000	365.1176	365.1176	0.0212	0.0000	365.6482
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	5.7000e-003	3.8600e-003	0.0424	1.1000e-004	0.0104	8.0000e-005	0.0104	2.7700e-003	7.0000e-005	2.8500e-003	0.0000	9.9563	9.9563	2.8000e-004	0.0000	9.9633
<b>Total</b>	<b>0.0424</b>	<b>1.3750</b>	<b>0.3522</b>	<b>3.8700e-003</b>	<b>0.0854</b>	<b>4.9900e-003</b>	<b>0.0904</b>	<b>0.0235</b>	<b>4.7600e-003</b>	<b>0.0283</b>	<b>0.0000</b>	<b>375.0739</b>	<b>375.0739</b>	<b>0.0215</b>	<b>0.0000</b>	<b>375.6115</b>

**3.4 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0298	0.3094	0.3224	5.0000e-004		0.0166	0.0166		0.0152	0.0152	0.0000	44.0621	44.0621	0.0143	0.0000	44.4184
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0298</b>	<b>0.3094</b>	<b>0.3224</b>	<b>5.0000e-004</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>44.0621</b>	<b>44.0621</b>	<b>0.0143</b>	<b>0.0000</b>	<b>44.4184</b>

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**3.4 Paving - 2020**

**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	1.2300e-003	8.3000e-004	9.1300e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1474	2.1474	6.0000e-005	0.0000	2.1490
<b>Total</b>	<b>1.2300e-003</b>	<b>8.3000e-004</b>	<b>9.1300e-003</b>	<b>2.0000e-005</b>	<b>2.4200e-003</b>	<b>2.0000e-005</b>	<b>2.4400e-003</b>	<b>6.4000e-004</b>	<b>2.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.1474</b>	<b>2.1474</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1490</b>

**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	0.0298	0.3094	0.3224	5.0000e-004		0.0166	0.0166		0.0152	0.0152	0.0000	44.0620	44.0620	0.0143	0.0000	44.4183
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0298</b>	<b>0.3094</b>	<b>0.3224</b>	<b>5.0000e-004</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0152</b>	<b>0.0152</b>	<b>0.0000</b>	<b>44.0620</b>	<b>44.0620</b>	<b>0.0143</b>	<b>0.0000</b>	<b>44.4183</b>

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**3.4 Paving - 2020**

**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	1.2300e-003	8.3000e-004	9.1300e-003	2.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	6.0000e-004	2.0000e-005	6.1000e-004	0.0000	2.1474	2.1474	6.0000e-005	0.0000	2.1490
<b>Total</b>	<b>1.2300e-003</b>	<b>8.3000e-004</b>	<b>9.1300e-003</b>	<b>2.0000e-005</b>	<b>2.2400e-003</b>	<b>2.0000e-005</b>	<b>2.2500e-003</b>	<b>6.0000e-004</b>	<b>2.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.1474</b>	<b>2.1474</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1490</b>

**3.4 Paving - 2021**

**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	0.0132	0.1357	0.1539	2.4000e-004		7.1200e-003	7.1200e-003		6.5500e-003	6.5500e-003	0.0000	21.0247	21.0247	6.8000e-003	0.0000	21.1947
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0132</b>	<b>0.1357</b>	<b>0.1539</b>	<b>2.4000e-004</b>		<b>7.1200e-003</b>	<b>7.1200e-003</b>		<b>6.5500e-003</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>21.0247</b>	<b>21.0247</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1947</b>

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**3.4 Paving - 2021**

**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	5.5000e-004	3.6000e-004	3.9900e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9900	0.9900	3.0000e-005	0.0000	0.9907
<b>Total</b>	<b>5.5000e-004</b>	<b>3.6000e-004</b>	<b>3.9900e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9900</b>	<b>0.9900</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9907</b>

**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	0.0132	0.1357	0.1539	2.4000e-004		7.1200e-003	7.1200e-003		6.5500e-003	6.5500e-003	0.0000	21.0246	21.0246	6.8000e-003	0.0000	21.1946
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0132</b>	<b>0.1357</b>	<b>0.1539</b>	<b>2.4000e-004</b>		<b>7.1200e-003</b>	<b>7.1200e-003</b>		<b>6.5500e-003</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>21.0246</b>	<b>21.0246</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1946</b>



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**3.4 Paving - 2021**

**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	5.5000e-004	3.6000e-004	3.9900e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0700e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.9900	0.9900	3.0000e-005	0.0000	0.9907
<b>Total</b>	<b>5.5000e-004</b>	<b>3.6000e-004</b>	<b>3.9900e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.9900</b>	<b>0.9900</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9907</b>

**3.5 Building Construction - 2021**

**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	0.3788	3.6421	3.7474	5.9700e-003		0.1964	0.1964		0.1830	0.1830	0.0000	518.2465	518.2465	0.1448	0.0000	521.8658
<b>Total</b>	<b>0.3788</b>	<b>3.6421</b>	<b>3.7474</b>	<b>5.9700e-003</b>		<b>0.1964</b>	<b>0.1964</b>		<b>0.1830</b>	<b>0.1830</b>	<b>0.0000</b>	<b>518.2465</b>	<b>518.2465</b>	<b>0.1448</b>	<b>0.0000</b>	<b>521.8658</b>

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**3.5 Building Construction - 2021**

**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	0.0230	0.7488	0.2001	1.7900e-003	0.1032	2.0700e-003	0.1053	0.0272	1.9800e-003	0.0292	0.0000	171.7598	171.7598	9.8200e-003	0.0000	172.0054
Worker	0.1301	0.0850	0.9506	2.6100e-003	0.7527	1.9300e-003	0.7546	0.1904	1.7800e-003	0.1922	0.0000	236.0943	236.0943	6.2000e-003	0.0000	236.2492
<b>Total</b>	<b>0.1531</b>	<b>0.8338</b>	<b>1.1508</b>	<b>4.4000e-003</b>	<b>0.8559</b>	<b>4.0000e-003</b>	<b>0.8599</b>	<b>0.2176</b>	<b>3.7600e-003</b>	<b>0.2214</b>	<b>0.0000</b>	<b>407.8541</b>	<b>407.8541</b>	<b>0.0160</b>	<b>0.0000</b>	<b>408.2546</b>

**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	0.3788	3.6421	3.7474	5.9700e-003		0.1964	0.1964		0.1830	0.1830	0.0000	518.2459	518.2459	0.1448	0.0000	521.8652
<b>Total</b>	<b>0.3788</b>	<b>3.6421</b>	<b>3.7474</b>	<b>5.9700e-003</b>		<b>0.1964</b>	<b>0.1964</b>		<b>0.1830</b>	<b>0.1830</b>	<b>0.0000</b>	<b>518.2459</b>	<b>518.2459</b>	<b>0.1448</b>	<b>0.0000</b>	<b>521.8652</b>

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**3.5 Building Construction - 2021**

**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	0.0230	0.7488	0.2001	1.7900e-003	0.0951	2.0700e-003	0.0971	0.0252	1.9800e-003	0.0272	0.0000	171.7598	171.7598	9.8200e-003	0.0000	172.0054
Worker	0.1301	0.0850	0.9506	2.6100e-003	0.6883	1.9300e-003	0.6903	0.1746	1.7800e-003	0.1764	0.0000	236.0943	236.0943	6.2000e-003	0.0000	236.2492
<b>Total</b>	<b>0.1531</b>	<b>0.8338</b>	<b>1.1508</b>	<b>4.4000e-003</b>	<b>0.7834</b>	<b>4.0000e-003</b>	<b>0.7874</b>	<b>0.1998</b>	<b>3.7600e-003</b>	<b>0.2036</b>	<b>0.0000</b>	<b>407.8541</b>	<b>407.8541</b>	<b>0.0160</b>	<b>0.0000</b>	<b>408.2546</b>

**3.5 Building Construction - 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	0.3652	3.4763	4.0227	6.4700e-003		0.1790	0.1790		0.1669	0.1669	0.0000	561.6011	561.6011	0.1564	0.0000	565.5104
<b>Total</b>	<b>0.3652</b>	<b>3.4763</b>	<b>4.0227</b>	<b>6.4700e-003</b>		<b>0.1790</b>	<b>0.1790</b>		<b>0.1669</b>	<b>0.1669</b>	<b>0.0000</b>	<b>561.6011</b>	<b>561.6011</b>	<b>0.1564</b>	<b>0.0000</b>	<b>565.5104</b>

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**3.5 Building Construction - 2022**

**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	0.0232	0.7702	0.1999	1.9200e-003	0.1118	1.9700e-003	0.1138	0.0295	1.8800e-003	0.0313	0.0000	184.4376	184.4376	0.0103	0.0000	184.6960
Worker	0.1317	0.0828	0.9464	2.7300e-003	0.8154	2.0300e-003	0.8175	0.2063	1.8700e-003	0.2082	0.0000	246.6076	246.6076	6.0300e-003	0.0000	246.7584
<b>Total</b>	<b>0.1548</b>	<b>0.8530</b>	<b>1.1463</b>	<b>4.6500e-003</b>	<b>0.9272</b>	<b>4.0000e-003</b>	<b>0.9312</b>	<b>0.2357</b>	<b>3.7500e-003</b>	<b>0.2395</b>	<b>0.0000</b>	<b>431.0451</b>	<b>431.0451</b>	<b>0.0164</b>	<b>0.0000</b>	<b>431.4543</b>

**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	0.3652	3.4763	4.0227	6.4700e-003		0.1790	0.1790		0.1669	0.1669	0.0000	561.6004	561.6004	0.1564	0.0000	565.5098
<b>Total</b>	<b>0.3652</b>	<b>3.4763</b>	<b>4.0227</b>	<b>6.4700e-003</b>		<b>0.1790</b>	<b>0.1790</b>		<b>0.1669</b>	<b>0.1669</b>	<b>0.0000</b>	<b>561.6004</b>	<b>561.6004</b>	<b>0.1564</b>	<b>0.0000</b>	<b>565.5098</b>

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**3.5 Building Construction - 2022**

**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	0.0232	0.7702	0.1999	1.9200e-003	0.1030	1.9700e-003	0.1049	0.0273	1.8800e-003	0.0292	0.0000	184.4376	184.4376	0.0103	0.0000	184.6960
Worker	0.1317	0.0828	0.9464	2.7300e-003	0.7457	2.0300e-003	0.7477	0.1892	1.8700e-003	0.1910	0.0000	246.6076	246.6076	6.0300e-003	0.0000	246.7584
<b>Total</b>	<b>0.1548</b>	<b>0.8530</b>	<b>1.1463</b>	<b>4.6500e-003</b>	<b>0.8487</b>	<b>4.0000e-003</b>	<b>0.8527</b>	<b>0.2165</b>	<b>3.7500e-003</b>	<b>0.2202</b>	<b>0.0000</b>	<b>431.0451</b>	<b>431.0451</b>	<b>0.0164</b>	<b>0.0000</b>	<b>431.4543</b>

**3.5 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	0.1120	1.0568	1.3256	2.1400e-003		0.0520	0.0520		0.0485	0.0485	0.0000	185.7916	185.7916	0.0516	0.0000	187.0806
<b>Total</b>	<b>0.1120</b>	<b>1.0568</b>	<b>1.3256</b>	<b>2.1400e-003</b>		<b>0.0520</b>	<b>0.0520</b>		<b>0.0485</b>	<b>0.0485</b>	<b>0.0000</b>	<b>185.7916</b>	<b>185.7916</b>	<b>0.0516</b>	<b>0.0000</b>	<b>187.0806</b>

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**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	6.0500e-003	0.2153	0.0585	6.2000e-004	0.0370	3.1000e-004	0.0373	9.7400e-003	3.0000e-004	0.0100	0.0000	59.8787	59.8787	3.0700e-003	0.0000	59.9553
Worker	0.0408	0.0246	0.2875	8.7000e-004	0.2697	6.6000e-004	0.2704	0.0682	6.0000e-004	0.0688	0.0000	78.5071	78.5071	1.7900e-003	0.0000	78.5518
<b>Total</b>	<b>0.0468</b>	<b>0.2400</b>	<b>0.3460</b>	<b>1.4900e-003</b>	<b>0.3067</b>	<b>9.7000e-004</b>	<b>0.3077</b>	<b>0.0780</b>	<b>9.0000e-004</b>	<b>0.0789</b>	<b>0.0000</b>	<b>138.3858</b>	<b>138.3858</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>138.5072</b>

**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	0.1120	1.0568	1.3256	2.1400e-003		0.0520	0.0520		0.0485	0.0485	0.0000	185.7914	185.7914	0.0516	0.0000	187.0804
<b>Total</b>	<b>0.1120</b>	<b>1.0568</b>	<b>1.3256</b>	<b>2.1400e-003</b>		<b>0.0520</b>	<b>0.0520</b>		<b>0.0485</b>	<b>0.0485</b>	<b>0.0000</b>	<b>185.7914</b>	<b>185.7914</b>	<b>0.0516</b>	<b>0.0000</b>	<b>187.0804</b>

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**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	6.0500e-003	0.2153	0.0585	6.2000e-004	0.0341	3.1000e-004	0.0344	9.0300e-003	3.0000e-004	9.3200e-003	0.0000	59.8787	59.8787	3.0700e-003	0.0000	59.9553
Worker	0.0408	0.0246	0.2875	8.7000e-004	0.2467	6.6000e-004	0.2473	0.0626	6.0000e-004	0.0632	0.0000	78.5071	78.5071	1.7900e-003	0.0000	78.5518
<b>Total</b>	<b>0.0468</b>	<b>0.2400</b>	<b>0.3460</b>	<b>1.4900e-003</b>	<b>0.2807</b>	<b>9.7000e-004</b>	<b>0.2817</b>	<b>0.0716</b>	<b>9.0000e-004</b>	<b>0.0725</b>	<b>0.0000</b>	<b>138.3858</b>	<b>138.3858</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>138.5072</b>

**3.6 Architectural Coating - 2021**

**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	0.8432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.1336	0.1590	2.6000e-004		8.2300e-003	8.2300e-003		8.2300e-003	8.2300e-003	0.0000	22.3410	22.3410	1.5300e-003	0.0000	22.3793
<b>Total</b>	<b>0.8623</b>	<b>0.1336</b>	<b>0.1590</b>	<b>2.6000e-004</b>		<b>8.2300e-003</b>	<b>8.2300e-003</b>		<b>8.2300e-003</b>	<b>8.2300e-003</b>	<b>0.0000</b>	<b>22.3410</b>	<b>22.3410</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>22.3793</b>

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**3.6 Architectural Coating - 2021**

**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	0.0173	0.0113	0.1262	3.5000e-004	0.0366	2.6000e-004	0.0369	9.7400e-003	2.4000e-004	9.9800e-003	0.0000	31.3504	31.3504	8.2000e-004	0.0000	31.3710
<b>Total</b>	<b>0.0173</b>	<b>0.0113</b>	<b>0.1262</b>	<b>3.5000e-004</b>	<b>0.0366</b>	<b>2.6000e-004</b>	<b>0.0369</b>	<b>9.7400e-003</b>	<b>2.4000e-004</b>	<b>9.9800e-003</b>	<b>0.0000</b>	<b>31.3504</b>	<b>31.3504</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>31.3710</b>

**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	0.8432					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.1336	0.1590	2.6000e-004		8.2300e-003	8.2300e-003		8.2300e-003	8.2300e-003	0.0000	22.3409	22.3409	1.5300e-003	0.0000	22.3793
<b>Total</b>	<b>0.8623</b>	<b>0.1336</b>	<b>0.1590</b>	<b>2.6000e-004</b>		<b>8.2300e-003</b>	<b>8.2300e-003</b>		<b>8.2300e-003</b>	<b>8.2300e-003</b>	<b>0.0000</b>	<b>22.3409</b>	<b>22.3409</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>22.3793</b>



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**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	0.0173	0.0113	0.1262	3.5000e-004	0.0338	2.6000e-004	0.0340	9.0400e-003	2.4000e-004	9.2800e-003	0.0000	31.3504	31.3504	8.2000e-004	0.0000	31.3710
<b>Total</b>	<b>0.0173</b>	<b>0.0113</b>	<b>0.1262</b>	<b>3.5000e-004</b>	<b>0.0338</b>	<b>2.6000e-004</b>	<b>0.0340</b>	<b>9.0400e-003</b>	<b>2.4000e-004</b>	<b>9.2800e-003</b>	<b>0.0000</b>	<b>31.3504</b>	<b>31.3504</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>31.3710</b>

**3.6 Architectural Coating - 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					
Archit. Coating	1.2527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
<b>Total</b>	<b>1.2793</b>	<b>0.1831</b>	<b>0.2358</b>	<b>3.9000e-004</b>		<b>0.0106</b>	<b>0.0106</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>33.2463</b>

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**3.6 Architectural Coating - 2022**

**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	0.0240	0.0151	0.1723	5.0000e-004	0.0544	3.7000e-004	0.0548	0.0145	3.4000e-004	0.0148	0.0000	44.9094	44.9094	1.1000e-003	0.0000	44.9368
<b>Total</b>	<b>0.0240</b>	<b>0.0151</b>	<b>0.1723</b>	<b>5.0000e-004</b>	<b>0.0544</b>	<b>3.7000e-004</b>	<b>0.0548</b>	<b>0.0145</b>	<b>3.4000e-004</b>	<b>0.0148</b>	<b>0.0000</b>	<b>44.9094</b>	<b>44.9094</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>44.9368</b>

**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	1.2527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
<b>Total</b>	<b>1.2793</b>	<b>0.1831</b>	<b>0.2358</b>	<b>3.9000e-004</b>		<b>0.0106</b>	<b>0.0106</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>33.2463</b>

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**3.6 Architectural Coating - 2022**

**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	0.0240	0.0151	0.1723	5.0000e-004	0.0502	3.7000e-004	0.0506	0.0134	3.4000e-004	0.0138	0.0000	44.9094	44.9094	1.1000e-003	0.0000	44.9368
<b>Total</b>	<b>0.0240</b>	<b>0.0151</b>	<b>0.1723</b>	<b>5.0000e-004</b>	<b>0.0502</b>	<b>3.7000e-004</b>	<b>0.0506</b>	<b>0.0134</b>	<b>3.4000e-004</b>	<b>0.0138</b>	<b>0.0000</b>	<b>44.9094</b>	<b>44.9094</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>44.9368</b>

**3.6 Architectural Coating - 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					
Archit. Coating	0.7324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.0990	0.1376	2.3000e-004		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	19.4047	19.4047	1.1600e-003	0.0000	19.4338
<b>Total</b>	<b>0.7469</b>	<b>0.0990</b>	<b>0.1376</b>	<b>2.3000e-004</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>19.4047</b>	<b>19.4047</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>19.4338</b>

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**3.6 Architectural Coating - 2023**

**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	0.0131	7.9300e-003	0.0925	2.8000e-004	0.0318	2.1000e-004	0.0320	8.4600e-003	1.9000e-004	8.6600e-003	0.0000	25.2688	25.2688	5.8000e-004	0.0000	25.2832
<b>Total</b>	<b>0.0131</b>	<b>7.9300e-003</b>	<b>0.0925</b>	<b>2.8000e-004</b>	<b>0.0318</b>	<b>2.1000e-004</b>	<b>0.0320</b>	<b>8.4600e-003</b>	<b>1.9000e-004</b>	<b>8.6600e-003</b>	<b>0.0000</b>	<b>25.2688</b>	<b>25.2688</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>25.2832</b>

**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	0.7324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.0990	0.1376	2.3000e-004		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	19.4047	19.4047	1.1600e-003	0.0000	19.4337
<b>Total</b>	<b>0.7469</b>	<b>0.0990</b>	<b>0.1376</b>	<b>2.3000e-004</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>		<b>5.3800e-003</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>19.4047</b>	<b>19.4047</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>19.4337</b>

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**3.6 Architectural Coating - 2023**

**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	0.0131	7.9300e-003	0.0925	2.8000e-004	0.0293	2.1000e-004	0.0296	7.8500e-003	1.9000e-004	8.0500e-003	0.0000	25.2688	25.2688	5.8000e-004	0.0000	25.2832
<b>Total</b>	<b>0.0131</b>	<b>7.9300e-003</b>	<b>0.0925</b>	<b>2.8000e-004</b>	<b>0.0293</b>	<b>2.1000e-004</b>	<b>0.0296</b>	<b>7.8500e-003</b>	<b>1.9000e-004</b>	<b>8.0500e-003</b>	<b>0.0000</b>	<b>25.2688</b>	<b>25.2688</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>25.2832</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4555	2.3639	5.3211	0.0251	2.9466	0.0128	2.9595	0.7890	0.0119	0.8009	0.0000	2,322.3684	2,322.3684	0.0846	0.0000	2,324.4842
Unmitigated	0.4555	2.3639	5.3211	0.0251	2.9466	0.0128	2.9595	0.7890	0.0119	0.8009	0.0000	2,322.3684	2,322.3684	0.0846	0.0000	2,324.4842

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.93	23.21	17.07	13,157	13,157
Retirement Community	556.80	470.96	452.40	1,359,070	1,359,070
Single Family Housing	2,570.40	2,675.70	2327.40	6,545,448	6,545,448
Total	3,129.13	3,169.87	2,796.87	7,917,674	7,917,674

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	901.4776	901.4776	0.0443	9.1600e-003	905.3153
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	901.4776	901.4776	0.0443	9.1600e-003	905.3153
NaturalGas Mitigated	0.0528	0.4508	0.1918	2.8800e-003		0.0364	0.0364		0.0364	0.0364	0.0000	522.0192	522.0192	0.0100	9.5700e-003	525.1212
NaturalGas Unmitigated	0.0528	0.4508	0.1918	2.8800e-003		0.0364	0.0364		0.0364	0.0364	0.0000	522.0192	522.0192	0.0100	9.5700e-003	525.1212

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.8069e+006	0.0151	0.1293	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7870	149.7870	2.8700e-003	2.7500e-003	150.6772
Single Family Housing	6.97537e+006	0.0376	0.3214	0.1368	2.0500e-003		0.0260	0.0260		0.0260	0.0260	0.0000	372.2321	372.2321	7.1300e-003	6.8200e-003	374.4441
<b>Total</b>		<b>0.0528</b>	<b>0.4508</b>	<b>0.1918</b>	<b>2.8800e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0365</b>	<b>0.0365</b>	<b>0.0000</b>	<b>522.0192</b>	<b>522.0192</b>	<b>0.0100</b>	<b>9.5700e-003</b>	<b>525.1213</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.8069e+006	0.0151	0.1293	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.7870	149.7870	2.8700e-003	2.7500e-003	150.6772
Single Family Housing	6.97537e+006	0.0376	0.3214	0.1368	2.0500e-003		0.0260	0.0260		0.0260	0.0260	0.0000	372.2321	372.2321	7.1300e-003	6.8200e-003	374.4441
<b>Total</b>		<b>0.0528</b>	<b>0.4508</b>	<b>0.1918</b>	<b>2.8800e-003</b>		<b>0.0365</b>	<b>0.0365</b>		<b>0.0365</b>	<b>0.0365</b>	<b>0.0000</b>	<b>522.0192</b>	<b>522.0192</b>	<b>0.0100</b>	<b>9.5700e-003</b>	<b>525.1213</b>



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.08692e+006	291.0326	0.0143	2.9600e-003	292.2715
Single Family Housing	2.27982e+006	610.4450	0.0300	6.2000e-003	613.0437
<b>Total</b>		<b>901.4776</b>	<b>0.0443</b>	<b>9.1600e-003</b>	<b>905.3153</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.08692e+006	291.0326	0.0143	2.9600e-003	292.2715
Single Family Housing	2.27982e+006	610.4450	0.0300	6.2000e-003	613.0437
<b>Total</b>		<b>901.4776</b>	<b>0.0443</b>	<b>9.1600e-003</b>	<b>905.3153</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4386	0.0595	5.1588	2.7000e-004		0.0287	0.0287		0.0287	0.0287	0.0000	8.4565	8.4565	8.0500e-003	0.0000	8.6577
Unmitigated	3.4386	0.0595	5.1588	2.7000e-004		0.0287	0.0287		0.0287	0.0287	0.0000	8.4565	8.4565	8.0500e-003	0.0000	8.6577

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8318					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	0.1543	0.0595	5.1588	2.7000e-004		0.0287	0.0287		0.0287	0.0287	0.0000	8.4565	8.4565	8.0500e-003	0.0000	8.6577
<b>Total</b>	<b>3.4386</b>	<b>0.0595</b>	<b>5.1588</b>	<b>2.7000e-004</b>		<b>0.0287</b>	<b>0.0287</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>8.4565</b>	<b>8.4565</b>	<b>8.0500e-003</b>	<b>0.0000</b>	<b>8.6577</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8318					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	0.1543	0.0595	5.1588	2.7000e-004		0.0287	0.0287		0.0287	0.0287	0.0000	8.4565	8.4565	8.0500e-003	0.0000	8.6577
<b>Total</b>	<b>3.4386</b>	<b>0.0595</b>	<b>5.1588</b>	<b>2.7000e-004</b>		<b>0.0287</b>	<b>0.0287</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>8.4565</b>	<b>8.4565</b>	<b>8.0500e-003</b>	<b>0.0000</b>	<b>8.6577</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.6711	0.0430	0.0258	84.4389
Unmitigated	75.6711	0.0430	0.0258	84.4389

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.21531	1.1389	6.0000e-005	1.0000e-005	1.1438
Retirement Community	15.1157 / 9.52948	34.4452	0.0198	0.0119	38.4950
Single Family Housing	17.5916 / 11.0903	40.0870	0.0231	0.0139	44.8002
<b>Total</b>		<b>75.6711</b>	<b>0.0430</b>	<b>0.0258</b>	<b>84.4389</b>

## The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.21531	1.1389	6.0000e-005	1.0000e-005	1.1438
Retirement Community	15.1157 / 9.52948	34.4452	0.0198	0.0119	38.4950
Single Family Housing	17.5916 / 11.0903	40.0870	0.0231	0.0139	44.8002
<b>Total</b>		<b>75.6711</b>	<b>0.0430</b>	<b>0.0258</b>	<b>84.4389</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	77.7313	4.5938	0.0000	192.5761
Unmitigated	77.7313	4.5938	0.0000	192.5761

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Retirement Community	106.72	21.6632	1.2803	0.0000	53.6697
Single Family Housing	276.12	56.0499	3.3125	0.0000	138.8612
<b>Total</b>		<b>77.7313</b>	<b>4.5938</b>	<b>0.0000</b>	<b>192.5761</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Retirement Community	106.72	21.6632	1.2803	0.0000	53.6697
Single Family Housing	276.12	56.0499	3.3125	0.0000	138.8612
<b>Total</b>		<b>77.7313</b>	<b>4.5938</b>	<b>0.0000</b>	<b>192.5761</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	528.6770	0.0000	0.0000	528.6770

### 11.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 284.8	- 1,057.2430	0.0000	0.0000	- 1,057.2430
<b>Total</b>		<b>- 1,057.2430</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- 1,057.2430</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Annual

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Construction Only - Phase 1)**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	270.00	Dwelling Unit	28.61	486,000.00	767
Retirement Community	232.00	Dwelling Unit	28.62	232,000.00	463
City Park	1.02	Acre	1.23	44,576.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction state date of January 2020 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 1

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

Off-road Equipment -  
Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 148.53 (res./comm./right of way) this phase (includes phases 1 and 2). Assume 1/2 of site is exported during this this phase (152,708 CY / 2 = 76,354 CY). Total net export for entire project (152,708 CY) as provided by applicant.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%. NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

tblConstructionPhase	NumDays	40.00	64.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	586.00
tblConstructionPhase	NumDays	75.00	587.00
tblConstructionPhase	PhaseEndDate	2/25/2020	3/30/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	2/11/2025	1/29/2021
tblConstructionPhase	PhaseEndDate	10/29/2024	5/1/2023
tblConstructionPhase	PhaseEndDate	5/27/2025	8/1/2023
tblConstructionPhase	PhaseStartDate	2/26/2020	4/1/2020
tblConstructionPhase	PhaseStartDate	10/30/2024	11/1/2020
tblConstructionPhase	PhaseStartDate	7/29/2020	2/1/2021
tblConstructionPhase	PhaseStartDate	2/12/2025	5/2/2021
tblGrading	AcresOfGrading	382.50	148.53
tblLandUse	LandUseSquareFeet	44,431.20	44,576.40
tblLandUse	LotAcreage	87.66	28.61
tblLandUse	LotAcreage	46.40	28.62
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	721.00	767.00
tblLandUse	Population	619.00	463.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	0.00	9,544.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0102	67.5510	36.5623	0.1130	18.2032	2.2382	20.4016	9.9670	2.0615	11.9895	0.0000	11,459.81 54	11,459.81 54	2.2472	0.0000	11,515.99 45
2021	14.6830	38.7640	45.6792	0.0962	7.8441	1.7662	9.6103	1.9966	1.6525	3.6491	0.0000	9,473.010 5	9,473.010 5	1.5118	0.0000	9,510.806 1
2022	14.2089	34.6567	44.3924	0.0951	7.8440	1.4919	9.3359	1.9966	1.3965	3.3931	0.0000	9,358.8113	9,358.811 3	1.4968	0.0000	9,396.230 4
2023	13.8653	31.4350	43.3006	0.0938	7.8440	1.3058	9.1497	1.9966	1.2219	3.2185	0.0000	9,227.545 4	9,227.545 4	1.4755	0.0000	9,264.433 0
<b>Maximum</b>	<b>14.6830</b>	<b>67.5510</b>	<b>45.6792</b>	<b>0.1130</b>	<b>18.2032</b>	<b>2.2382</b>	<b>20.4016</b>	<b>9.9670</b>	<b>2.0615</b>	<b>11.9895</b>	<b>0.0000</b>	<b>11,459.81 54</b>	<b>11,459.81 54</b>	<b>2.2472</b>	<b>0.0000</b>	<b>11,515.99 45</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Energy	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
Mobile	3.3740	13.3563	34.9432	0.1564	17.6509	0.0741	17.7250	4.7125	0.0689	4.7814		15,939.6108	15,939.6108	0.5453		15,953.2438
<b>Total</b>	<b>22.8935</b>	<b>16.3024</b>	<b>77.2643</b>	<b>0.1744</b>	<b>17.6509</b>	<b>0.5035</b>	<b>18.1544</b>	<b>4.7125</b>	<b>0.4982</b>	<b>5.2107</b>	<b>0.0000</b>	<b>19,167.2123</b>	<b>19,167.2123</b>	<b>0.6767</b>	<b>0.0578</b>	<b>19,201.3568</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Energy	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
Mobile	3.3740	13.3563	34.9432	0.1564	17.6509	0.0741	17.7250	4.7125	0.0689	4.7814		15,939.6108	15,939.6108	0.5453		15,953.2438
<b>Total</b>	<b>22.8935</b>	<b>16.3024</b>	<b>77.2643</b>	<b>0.1744</b>	<b>17.6509</b>	<b>0.5035</b>	<b>18.1544</b>	<b>4.7125</b>	<b>0.4982</b>	<b>5.2107</b>	<b>0.0000</b>	<b>19,167.2123</b>	<b>19,167.2123</b>	<b>0.6767</b>	<b>0.0578</b>	<b>19,201.3568</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	3/30/2020	5	64	
2	Grading	Grading	4/1/2020	10/30/2020	5	153	
3	Paving	Paving	11/1/2020	1/29/2021	5	65	
4	Building Construction	Building Construction	2/1/2021	5/1/2023	5	586	
5	Architectural Coating	Architectural Coating	5/2/2021	8/1/2023	5	587	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 148.53

Acres of Paving: 0

Residential Indoor: 1,453,950; Residential Outdoor: 484,650; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

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

Trips and VMT

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	9,544.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	283.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.1974</b>	<b>10.3272</b>	<b>4.4688</b>	<b>2.0216</b>	<b>6.4904</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.0412	0.5877	1.4400e-003	0.1262	9.5000e-004	0.1272	0.0337	8.8000e-004	0.0346		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1262</b>	<b>9.5000e-004</b>	<b>0.1272</b>	<b>0.0337</b>	<b>8.8000e-004</b>	<b>0.0346</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0516	0.0000	7.0516	3.4214	0.0000	3.4214			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>7.0516</b>	<b>2.1739</b>	<b>9.2255</b>	<b>3.4214</b>	<b>2.0000</b>	<b>5.4214</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4739	17.3077	3.9510	0.0494	1.0852	0.0633	1.1485	0.2970	0.0605	0.3575		5,295.2475	5,295.2475	0.3002		5,302.7525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.5601</b>	<b>17.3535</b>	<b>4.6040</b>	<b>0.0510</b>	<b>1.2374</b>	<b>0.0643</b>	<b>1.3017</b>	<b>0.3374</b>	<b>0.0615</b>	<b>0.3989</b>		<b>5,453.9501</b>	<b>5,453.9501</b>	<b>0.3048</b>		<b>5,461.5688</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1732	0.0000	3.1732	1.5396	0.0000	1.5396			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>3.1732</b>	<b>2.1739</b>	<b>5.3471</b>	<b>1.5396</b>	<b>2.0000</b>	<b>3.5396</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4739	17.3077	3.9510	0.0494	1.0110	0.0633	1.0743	0.2788	0.0605	0.3393		5,295.2475	5,295.2475	0.3002		5,302.7525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0458	0.6530	1.5900e-003	0.1402	1.0600e-003	0.1413	0.0374	9.7000e-004	0.0384		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.5601</b>	<b>17.3535</b>	<b>4.6040</b>	<b>0.0510</b>	<b>1.1512</b>	<b>0.0643</b>	<b>1.2156</b>	<b>0.3162</b>	<b>0.0615</b>	<b>0.3777</b>		<b>5,453.9501</b>	<b>5,453.9501</b>	<b>0.3048</b>		<b>5,461.5688</b>

**3.4 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.4 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0343	0.4898	1.2000e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		119.0269	119.0269	3.4100e-003		119.1122
<b>Total</b>	<b>0.0647</b>	<b>0.0343</b>	<b>0.4898</b>	<b>1.2000e-003</b>	<b>0.1141</b>	<b>7.9000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.3000e-004</b>	<b>0.0310</b>		<b>119.0269</b>	<b>119.0269</b>	<b>3.4100e-003</b>		<b>119.1122</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.4 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0343	0.4898	1.2000e-003	0.1052	7.9000e-004	0.1060	0.0281	7.3000e-004	0.0288		119.0269	119.0269	3.4100e-003		119.1122
<b>Total</b>	<b>0.0647</b>	<b>0.0343</b>	<b>0.4898</b>	<b>1.2000e-003</b>	<b>0.1052</b>	<b>7.9000e-004</b>	<b>0.1060</b>	<b>0.0281</b>	<b>7.3000e-004</b>	<b>0.0288</b>		<b>119.0269</b>	<b>119.0269</b>	<b>3.4100e-003</b>		<b>119.1122</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.4 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.4 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1052	7.7000e-004	0.1060	0.0281	7.1000e-004	0.0288		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1052</b>	<b>7.7000e-004</b>	<b>0.1060</b>	<b>0.0281</b>	<b>7.1000e-004</b>	<b>0.0288</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1565	30.3512	31.2284	0.0497		1.6363	1.6363		1.5248	1.5248		4,760.5748	4,760.5748	1.3299		4,793.8216
<b>Total</b>	<b>3.1565</b>	<b>30.3512</b>	<b>31.2284</b>	<b>0.0497</b>		<b>1.6363</b>	<b>1.6363</b>		<b>1.5248</b>	<b>1.5248</b>		<b>4,760.5748</b>	<b>4,760.5748</b>	<b>1.3299</b>		<b>4,793.8216</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1885	6.1269	1.5645	0.0151	0.8913	0.0168	0.9081	0.2343	0.0161	0.2504		1,595.015 2	1,595.015 2	0.0872		1,597.194 6
Worker	1.2545	0.6422	9.3635	0.0241	6.5192	0.0161	6.5353	1.6473	0.0148	1.6621		2,399.079 4	2,399.079 4	0.0638		2,400.675 4
<b>Total</b>	<b>1.4430</b>	<b>6.7690</b>	<b>10.9280</b>	<b>0.0392</b>	<b>7.4105</b>	<b>0.0329</b>	<b>7.4433</b>	<b>1.8816</b>	<b>0.0309</b>	<b>1.9125</b>		<b>3,994.094 6</b>	<b>3,994.094 6</b>	<b>0.1510</b>		<b>3,997.869 9</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1565	30.3512	31.2284	0.0497		1.6363	1.6363		1.5248	1.5248	0.0000	4,760.574 8	4,760.574 8	1.3299		4,793.821 6
<b>Total</b>	<b>3.1565</b>	<b>30.3512</b>	<b>31.2284</b>	<b>0.0497</b>		<b>1.6363</b>	<b>1.6363</b>		<b>1.5248</b>	<b>1.5248</b>	<b>0.0000</b>	<b>4,760.574 8</b>	<b>4,760.574 8</b>	<b>1.3299</b>		<b>4,793.821 6</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1885	6.1269	1.5645	0.0151	0.8205	0.0168	0.8373	0.2169	0.0161	0.2330		1,595.015 2	1,595.015 2	0.0872		1,597.194 6
Worker	1.2545	0.6422	9.3635	0.0241	5.9605	0.0161	5.9766	1.5102	0.0148	1.5250		2,399.079 4	2,399.079 4	0.0638		2,400.675 4
<b>Total</b>	<b>1.4430</b>	<b>6.7690</b>	<b>10.9280</b>	<b>0.0392</b>	<b>6.7810</b>	<b>0.0329</b>	<b>6.8139</b>	<b>1.7271</b>	<b>0.0309</b>	<b>1.7580</b>		<b>3,994.094 6</b>	<b>3,994.094 6</b>	<b>0.1510</b>		<b>3,997.869 9</b>

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.8091	26.7405	30.9439	0.0497		1.3769	1.3769		1.2836	1.2836		4,761.993 9	4,761.993 9	1.3260		4,795.142 6
<b>Total</b>	<b>2.8091</b>	<b>26.7405</b>	<b>30.9439</b>	<b>0.0497</b>		<b>1.3769</b>	<b>1.3769</b>		<b>1.2836</b>	<b>1.2836</b>		<b>4,761.993 9</b>	<b>4,761.993 9</b>	<b>1.3260</b>		<b>4,795.142 6</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1749	5.8249	1.4415	0.0149	0.8912	0.0147	0.9060	0.2343	0.0141	0.2484		1,581.1018	1,581.1018	0.0847		1,583.2183
Worker	1.1709	0.5776	8.6231	0.0232	6.5192	0.0157	6.5349	1.6473	0.0144	1.6617		2,313.0426	2,313.0426	0.0574		2,314.4771
<b>Total</b>	<b>1.3459</b>	<b>6.4025</b>	<b>10.0646</b>	<b>0.0381</b>	<b>7.4104</b>	<b>0.0304</b>	<b>7.4408</b>	<b>1.8816</b>	<b>0.0285</b>	<b>1.9101</b>		<b>3,894.1443</b>	<b>3,894.1443</b>	<b>0.1420</b>		<b>3,897.6954</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8091	26.7405	30.9439	0.0497		1.3769	1.3769		1.2836	1.2836	0.0000	4,761.9939	4,761.9939	1.3260		4,795.1426
<b>Total</b>	<b>2.8091</b>	<b>26.7405</b>	<b>30.9439</b>	<b>0.0497</b>		<b>1.3769</b>	<b>1.3769</b>		<b>1.2836</b>	<b>1.2836</b>	<b>0.0000</b>	<b>4,761.9939</b>	<b>4,761.9939</b>	<b>1.3260</b>		<b>4,795.1426</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1749	5.8249	1.4415	0.0149	0.8205	0.0147	0.8352	0.2169	0.0141	0.2310		1,581.1018	1,581.1018	0.0847		1,583.2183
Worker	1.1709	0.5776	8.6231	0.0232	5.9605	0.0157	5.9762	1.5102	0.0144	1.5246		2,313.0426	2,313.0426	0.0574		2,314.4771
<b>Total</b>	<b>1.3459</b>	<b>6.4025</b>	<b>10.0646</b>	<b>0.0381</b>	<b>6.7810</b>	<b>0.0304</b>	<b>6.8114</b>	<b>1.7271</b>	<b>0.0285</b>	<b>1.7556</b>		<b>3,894.1443</b>	<b>3,894.1443</b>	<b>0.1420</b>		<b>3,897.6954</b>

**3.5 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	lb/day										lb/day					
Off-Road	2.6055	24.5765	30.8282	0.0498		1.2099	1.2099		1.1278	1.1278		4,762.7941	4,762.7941	1.3218		4,795.8396
<b>Total</b>	<b>2.6055</b>	<b>24.5765</b>	<b>30.8282</b>	<b>0.0498</b>		<b>1.2099</b>	<b>1.2099</b>		<b>1.1278</b>	<b>1.1278</b>		<b>4,762.7941</b>	<b>4,762.7941</b>	<b>1.3218</b>		<b>4,795.8396</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1382	4.9409	1.2787	0.0146	0.8912	6.9400e-003	0.8981	0.2343	6.6400e-003	0.2409		1,551.8329	1,551.8329	0.0760		1,553.7338
Worker	1.0945	0.5199	7.9372	0.0224	6.5192	0.0153	6.5345	1.6473	0.0141	1.6614		2,226.0817	2,226.0817	0.0514		2,227.3677
<b>Total</b>	<b>1.2327</b>	<b>5.4608</b>	<b>9.2159</b>	<b>0.0370</b>	<b>7.4104</b>	<b>0.0222</b>	<b>7.4326</b>	<b>1.8816</b>	<b>0.0207</b>	<b>1.9023</b>		<b>3,777.9146</b>	<b>3,777.9146</b>	<b>0.1275</b>		<b>3,781.1015</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6055	24.5765	30.8282	0.0498		1.2099	1.2099		1.1278	1.1278	0.0000	4,762.7941	4,762.7941	1.3218		4,795.8396
<b>Total</b>	<b>2.6055</b>	<b>24.5765</b>	<b>30.8282</b>	<b>0.0498</b>		<b>1.2099</b>	<b>1.2099</b>		<b>1.1278</b>	<b>1.1278</b>	<b>0.0000</b>	<b>4,762.7941</b>	<b>4,762.7941</b>	<b>1.3218</b>		<b>4,795.8396</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1382	4.9409	1.2787	0.0146	0.8204	6.9400e-003	0.8274	0.2169	6.6400e-003	0.2235		1,551.8329	1,551.8329	0.0760		1,553.7338
Worker	1.0945	0.5199	7.9372	0.0224	5.9605	0.0153	5.9758	1.5102	0.0141	1.5243		2,226.0817	2,226.0817	0.0514		2,227.3677
<b>Total</b>	<b>1.2327</b>	<b>5.4608</b>	<b>9.2159</b>	<b>0.0370</b>	<b>6.7810</b>	<b>0.0222</b>	<b>6.8032</b>	<b>1.7271</b>	<b>0.0207</b>	<b>1.7478</b>		<b>3,777.9146</b>	<b>3,777.9146</b>	<b>0.1275</b>		<b>3,781.1015</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>9.8551</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2285	0.1169	1.7052	4.3900e-003	0.4336	2.9300e-003	0.4365	0.1150	2.7000e-003	0.1177		436.8931	436.8931	0.0116		437.1837
<b>Total</b>	<b>0.2285</b>	<b>0.1169</b>	<b>1.7052</b>	<b>4.3900e-003</b>	<b>0.4336</b>	<b>2.9300e-003</b>	<b>0.4365</b>	<b>0.1150</b>	<b>2.7000e-003</b>	<b>0.1177</b>		<b>436.8931</b>	<b>436.8931</b>	<b>0.0116</b>		<b>437.1837</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>9.8551</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2285	0.1169	1.7052	4.3900e-003	0.3997	2.9300e-003	0.4026	0.1067	2.7000e-003	0.1094		436.8931	436.8931	0.0116		437.1837
<b>Total</b>	<b>0.2285</b>	<b>0.1169</b>	<b>1.7052</b>	<b>4.3900e-003</b>	<b>0.3997</b>	<b>2.9300e-003</b>	<b>0.4026</b>	<b>0.1067</b>	<b>2.7000e-003</b>	<b>0.1094</b>		<b>436.8931</b>	<b>436.8931</b>	<b>0.0116</b>		<b>437.1837</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>9.8407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2132	0.1052	1.5703	4.2300e-003	0.4336	2.8500e-003	0.4365	0.1150	2.6300e-003	0.1176		421.2250	421.2250	0.0105		421.4863
<b>Total</b>	<b>0.2132</b>	<b>0.1052</b>	<b>1.5703</b>	<b>4.2300e-003</b>	<b>0.4336</b>	<b>2.8500e-003</b>	<b>0.4365</b>	<b>0.1150</b>	<b>2.6300e-003</b>	<b>0.1176</b>		<b>421.2250</b>	<b>421.2250</b>	<b>0.0105</b>		<b>421.4863</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>9.8407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2132	0.1052	1.5703	4.2300e-003	0.3997	2.8500e-003	0.4025	0.1067	2.6300e-003	0.1093		421.2250	421.2250	0.0105		421.4863
<b>Total</b>	<b>0.2132</b>	<b>0.1052</b>	<b>1.5703</b>	<b>4.2300e-003</b>	<b>0.3997</b>	<b>2.8500e-003</b>	<b>0.4025</b>	<b>0.1067</b>	<b>2.6300e-003</b>	<b>0.1093</b>		<b>421.2250</b>	<b>421.2250</b>	<b>0.0105</b>		<b>421.4863</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.8278</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1993	0.0947	1.4454	4.0700e-003	0.4336	2.7800e-003	0.4364	0.1150	2.5600e-003	0.1176		405.3887	405.3887	9.3700e-003		405.6229
<b>Total</b>	<b>0.1993</b>	<b>0.0947</b>	<b>1.4454</b>	<b>4.0700e-003</b>	<b>0.4336</b>	<b>2.7800e-003</b>	<b>0.4364</b>	<b>0.1150</b>	<b>2.5600e-003</b>	<b>0.1176</b>		<b>405.3887</b>	<b>405.3887</b>	<b>9.3700e-003</b>		<b>405.6229</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.8278</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1993	0.0947	1.4454	4.0700e-003	0.3997	2.7800e-003	0.4025	0.1067	2.5600e-003	0.1093		405.3887	405.3887	9.3700e-003		405.6229
<b>Total</b>	<b>0.1993</b>	<b>0.0947</b>	<b>1.4454</b>	<b>4.0700e-003</b>	<b>0.3997</b>	<b>2.7800e-003</b>	<b>0.4025</b>	<b>0.1067</b>	<b>2.5600e-003</b>	<b>0.1093</b>		<b>405.3887</b>	<b>405.3887</b>	<b>9.3700e-003</b>		<b>405.6229</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3740	13.3563	34.9432	0.1564	17.6509	0.0741	17.7250	4.7125	0.0689	4.7814		15,939.6108	15,939.6108	0.5453		15,953.2438
Unmitigated	3.3740	13.3563	34.9432	0.1564	17.6509	0.0741	17.7250	4.7125	0.0689	4.7814		15,939.6108	15,939.6108	0.5453		15,953.2438

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.93	23.21	17.07	13,157	13,157
Retirement Community	556.80	470.96	452.40	1,359,070	1,359,070
Single Family Housing	2,570.40	2,675.70	2327.40	6,545,448	6,545,448
Total	3,129.13	3,169.87	2,796.87	7,917,674	7,917,674

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
NaturalGas Unmitigated	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	7690.15	0.0829	0.7087	0.3016	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.7230	904.7230	0.0173	0.0166	910.0993	
Single Family Housing	19110.6	0.2061	1.7612	0.7494	0.0112		0.1424	0.1424		0.1424	0.1424		2,248.3050	2,248.3050	0.0431	0.0412	2,261.6656	
<b>Total</b>		<b>0.2890</b>	<b>2.4699</b>	<b>1.0510</b>	<b>0.0158</b>		<b>0.1997</b>	<b>0.1997</b>		<b>0.1997</b>	<b>0.1997</b>		<b>3,153.0280</b>	<b>3,153.0280</b>	<b>0.0604</b>	<b>0.0578</b>	<b>3,171.7649</b>	

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	7.69015	0.0829	0.7087	0.3016	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.7230	904.7230	0.0173	0.0166	910.0993	
Single Family Housing	19.1106	0.2061	1.7612	0.7494	0.0112		0.1424	0.1424		0.1424	0.1424		2,248.3050	2,248.3050	0.0431	0.0412	2,261.6656	
<b>Total</b>		<b>0.2890</b>	<b>2.4699</b>	<b>1.0510</b>	<b>0.0158</b>		<b>0.1997</b>	<b>0.1997</b>		<b>0.1997</b>	<b>0.1997</b>		<b>3,153.0280</b>	<b>3,153.0280</b>	<b>0.0604</b>	<b>0.0578</b>	<b>3,171.7649</b>	

**6.0 Area Detail**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**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	lb/day										lb/day					
Mitigated	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Unmitigated	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4795					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5169					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	1.2340	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297		74.5735	74.5735	0.0710		76.3482
<b>Total</b>	<b>19.2304</b>	<b>0.4761</b>	<b>41.2702</b>	<b>2.1900e-003</b>		<b>0.2297</b>	<b>0.2297</b>		<b>0.2297</b>	<b>0.2297</b>	<b>0.0000</b>	<b>74.5735</b>	<b>74.5735</b>	<b>0.0710</b>	<b>0.0000</b>	<b>76.3482</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4795					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5169					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	1.2340	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297		74.5735	74.5735	0.0710		76.3482
<b>Total</b>	<b>19.2304</b>	<b>0.4761</b>	<b>41.2702</b>	<b>2.1900e-003</b>		<b>0.2297</b>	<b>0.2297</b>		<b>0.2297</b>	<b>0.2297</b>	<b>0.0000</b>	<b>74.5735</b>	<b>74.5735</b>	<b>0.0710</b>	<b>0.0000</b>	<b>76.3482</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Construction Only - Phase 1)**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	270.00	Dwelling Unit	28.61	486,000.00	767
Retirement Community	232.00	Dwelling Unit	28.62	232,000.00	463
City Park	1.02	Acre	1.23	44,576.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Estimated construction state date of January 2020 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 1

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

Off-road Equipment -  
Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 148.53 (res./comm./right of way) this phase (includes phases 1 and 2). Assume 1/2 of site is exported during this this phase (152,708 CY / 2 = 76,354 CY). Total net export for entire project (152,708 CY) as provided by applicant.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%. NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15



## The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

tblConstructionPhase	NumDays	40.00	64.00
tblConstructionPhase	NumDays	110.00	153.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	586.00
tblConstructionPhase	NumDays	75.00	587.00
tblConstructionPhase	PhaseEndDate	2/25/2020	3/30/2020
tblConstructionPhase	PhaseEndDate	7/28/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	2/11/2025	1/29/2021
tblConstructionPhase	PhaseEndDate	10/29/2024	5/1/2023
tblConstructionPhase	PhaseEndDate	5/27/2025	8/1/2023
tblConstructionPhase	PhaseStartDate	2/26/2020	4/1/2020
tblConstructionPhase	PhaseStartDate	10/30/2024	11/1/2020
tblConstructionPhase	PhaseStartDate	7/29/2020	2/1/2021
tblConstructionPhase	PhaseStartDate	2/12/2025	5/2/2021
tblGrading	AcresOfGrading	382.50	148.53
tblLandUse	LandUseSquareFeet	44,431.20	44,576.40
tblLandUse	LotAcreage	87.66	28.61
tblLandUse	LotAcreage	46.40	28.62
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	721.00	767.00
tblLandUse	Population	619.00	463.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	0.00	9,544.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	VendorTripNumber	61.00	0.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00
tblTripsAndVMT	WorkerTripNumber	283.00	15.00

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0184	68.2687	36.7453	0.1121	18.2032	2.2403	20.4016	9.9670	2.0635	11.9895	0.0000	11,359.15 94	11,359.15 94	2.2605	0.0000	11,415.67 13
2021	14.5769	39.0432	44.3015	0.0924	7.8441	1.7673	9.6114	1.9966	1.6535	3.6501	0.0000	9,086.718 1	9,086.718 1	1.5100	0.0000	9,124.467 3
2022	14.1122	34.9022	43.0883	0.0914	7.8440	1.4928	9.3369	1.9966	1.3974	3.3940	0.0000	8,985.149 5	8,985.149 5	1.4955	0.0000	9,022.537 7
2023	13.7769	31.6284	42.0463	0.0902	7.8440	1.3064	9.1503	1.9966	1.2225	3.2191	0.0000	8,867.395 0	8,867.395 0	1.4740	0.0000	8,904.245 5
<b>Maximum</b>	<b>14.5769</b>	<b>68.2687</b>	<b>44.3015</b>	<b>0.1121</b>	<b>18.2032</b>	<b>2.2403</b>	<b>20.4016</b>	<b>9.9670</b>	<b>2.0635</b>	<b>11.9895</b>	<b>0.0000</b>	<b>11,359.15 94</b>	<b>11,359.15 94</b>	<b>2.2605</b>	<b>0.0000</b>	<b>11,415.67 13</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Energy	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
Mobile	2.4533	13.8980	31.5599	0.1419	17.6509	0.0745	17.7253	4.7125	0.0692	4.7817		14,485.7439	14,485.7439	0.5530		14,499.5686
<b>Total</b>	<b>21.9728</b>	<b>16.8440</b>	<b>73.8811</b>	<b>0.1599</b>	<b>17.6509</b>	<b>0.5038</b>	<b>18.1547</b>	<b>4.7125</b>	<b>0.4986</b>	<b>5.2111</b>	<b>0.0000</b>	<b>17,713.3454</b>	<b>17,713.3454</b>	<b>0.6844</b>	<b>0.0578</b>	<b>17,747.6817</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Energy	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
Mobile	2.4533	13.8980	31.5599	0.1419	17.6509	0.0745	17.7253	4.7125	0.0692	4.7817		14,485.7439	14,485.7439	0.5530		14,499.5686
<b>Total</b>	<b>21.9728</b>	<b>16.8440</b>	<b>73.8811</b>	<b>0.1599</b>	<b>17.6509</b>	<b>0.5038</b>	<b>18.1547</b>	<b>4.7125</b>	<b>0.4986</b>	<b>5.2111</b>	<b>0.0000</b>	<b>17,713.3454</b>	<b>17,713.3454</b>	<b>0.6844</b>	<b>0.0578</b>	<b>17,747.6817</b>

## The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	3/30/2020	5	64	
2	Grading	Grading	4/1/2020	10/30/2020	5	153	
3	Paving	Paving	11/1/2020	1/29/2021	5	65	
4	Building Construction	Building Construction	2/1/2021	5/1/2023	5	586	
5	Architectural Coating	Architectural Coating	5/2/2021	8/1/2023	5	587	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 148.53

Acres of Paving: 0

Residential Indoor: 1,453,950; Residential Outdoor: 484,650; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

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

Trips and VMT

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	9,544.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	283.00	61.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	57.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.1974</b>	<b>10.3272</b>	<b>4.4688</b>	<b>2.0216</b>	<b>6.4904</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0509	0.5032	1.2600e-003	0.1262	9.5000e-004	0.1272	0.0337	8.8000e-004	0.0346		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1262</b>	<b>9.5000e-004</b>	<b>0.1272</b>	<b>0.0337</b>	<b>8.8000e-004</b>	<b>0.0346</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0516	0.0000	7.0516	3.4214	0.0000	3.4214			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>7.0516</b>	<b>2.1739</b>	<b>9.2255</b>	<b>3.4214</b>	<b>2.0000</b>	<b>5.4214</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4889	18.0147	4.2279	0.0487	1.0852	0.0654	1.1506	0.2970	0.0625	0.3595		5,213.9165	5,213.9165	0.3141		5,221.7677
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.5683</b>	<b>18.0712</b>	<b>4.7870</b>	<b>0.0501</b>	<b>1.2374</b>	<b>0.0664</b>	<b>1.3038</b>	<b>0.3374</b>	<b>0.0635</b>	<b>0.4009</b>		<b>5,353.2942</b>	<b>5,353.2942</b>	<b>0.3181</b>		<b>5,361.2456</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1732	0.0000	3.1732	1.5396	0.0000	1.5396			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>3.1732</b>	<b>2.1739</b>	<b>5.3471</b>	<b>1.5396</b>	<b>2.0000</b>	<b>3.5396</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4889	18.0147	4.2279	0.0487	1.0110	0.0654	1.0764	0.2788	0.0625	0.3413		5,213.9165	5,213.9165	0.3141		5,221.7677
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0565	0.5591	1.4000e-003	0.1402	1.0600e-003	0.1413	0.0374	9.7000e-004	0.0384		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.5683</b>	<b>18.0712</b>	<b>4.7870</b>	<b>0.0501</b>	<b>1.1512</b>	<b>0.0664</b>	<b>1.2177</b>	<b>0.3162</b>	<b>0.0635</b>	<b>0.3797</b>		<b>5,353.2942</b>	<b>5,353.2942</b>	<b>0.3181</b>		<b>5,361.2456</b>

**3.4 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.4 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084
<b>Total</b>	<b>0.0595</b>	<b>0.0424</b>	<b>0.4194</b>	<b>1.0500e-003</b>	<b>0.1141</b>	<b>7.9000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.3000e-004</b>	<b>0.0310</b>		<b>104.5333</b>	<b>104.5333</b>	<b>3.0100e-003</b>		<b>104.6084</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.4 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0424	0.4194	1.0500e-003	0.1052	7.9000e-004	0.1060	0.0281	7.3000e-004	0.0288		104.5333	104.5333	3.0100e-003		104.6084
<b>Total</b>	<b>0.0595</b>	<b>0.0424</b>	<b>0.4194</b>	<b>1.0500e-003</b>	<b>0.1052</b>	<b>7.9000e-004</b>	<b>0.1060</b>	<b>0.0281</b>	<b>7.3000e-004</b>	<b>0.0288</b>		<b>104.5333</b>	<b>104.5333</b>	<b>3.0100e-003</b>		<b>104.6084</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.4 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.4 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1052	7.7000e-004	0.1060	0.0281	7.1000e-004	0.0288		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1052</b>	<b>7.7000e-004</b>	<b>0.1060</b>	<b>0.0281</b>	<b>7.1000e-004</b>	<b>0.0288</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1565	30.3512	31.2284	0.0497		1.6363	1.6363		1.5248	1.5248		4,760.5748	4,760.5748	1.3299		4,793.8216
<b>Total</b>	<b>3.1565</b>	<b>30.3512</b>	<b>31.2284</b>	<b>0.0497</b>		<b>1.6363</b>	<b>1.6363</b>		<b>1.5248</b>	<b>1.5248</b>		<b>4,760.5748</b>	<b>4,760.5748</b>	<b>1.3299</b>		<b>4,793.8216</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1997	6.2276	1.8145	0.0147	0.8913	0.0179	0.9091	0.2343	0.0171	0.2514		1,553.9876	1,553.9876	0.0944		1,556.3477
Worker	1.1552	0.7931	7.9866	0.0212	6.5192	0.0161	6.5353	1.6473	0.0148	1.6621		2,107.0041	2,107.0041	0.0562		2,108.4078
<b>Total</b>	<b>1.3549</b>	<b>7.0208</b>	<b>9.8011</b>	<b>0.0358</b>	<b>7.4105</b>	<b>0.0339</b>	<b>7.4444</b>	<b>1.8816</b>	<b>0.0319</b>	<b>1.9135</b>		<b>3,660.9917</b>	<b>3,660.9917</b>	<b>0.1506</b>		<b>3,664.7556</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1565	30.3512	31.2284	0.0497		1.6363	1.6363		1.5248	1.5248	0.0000	4,760.5748	4,760.5748	1.3299		4,793.8216
<b>Total</b>	<b>3.1565</b>	<b>30.3512</b>	<b>31.2284</b>	<b>0.0497</b>		<b>1.6363</b>	<b>1.6363</b>		<b>1.5248</b>	<b>1.5248</b>	<b>0.0000</b>	<b>4,760.5748</b>	<b>4,760.5748</b>	<b>1.3299</b>		<b>4,793.8216</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1997	6.2276	1.8145	0.0147	0.8205	0.0179	0.8384	0.2169	0.0171	0.2340		1,553.9876	1,553.9876	0.0944		1,556.3477
Worker	1.1552	0.7931	7.9866	0.0212	5.9605	0.0161	5.9766	1.5102	0.0148	1.5250		2,107.0041	2,107.0041	0.0562		2,108.4078
<b>Total</b>	<b>1.3549</b>	<b>7.0208</b>	<b>9.8011</b>	<b>0.0358</b>	<b>6.7810</b>	<b>0.0339</b>	<b>6.8150</b>	<b>1.7271</b>	<b>0.0319</b>	<b>1.7590</b>		<b>3,660.9917</b>	<b>3,660.9917</b>	<b>0.1506</b>		<b>3,664.7556</b>

**3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.8091	26.7405	30.9439	0.0497		1.3769	1.3769		1.2836	1.2836		4,761.9939	4,761.9939	1.3260		4,795.1426
<b>Total</b>	<b>2.8091</b>	<b>26.7405</b>	<b>30.9439</b>	<b>0.0497</b>		<b>1.3769</b>	<b>1.3769</b>		<b>1.2836</b>	<b>1.2836</b>		<b>4,761.9939</b>	<b>4,761.9939</b>	<b>1.3260</b>		<b>4,795.1426</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1853	5.9103	1.6734	0.0145	0.8912	0.0157	0.9069	0.2343	0.0150	0.2493		1,540.1798	1,540.1798	0.0917		1,542.4729
Worker	1.0804	0.7130	7.3238	0.0204	6.5192	0.0157	6.5349	1.6473	0.0144	1.6617		2,031.5627	2,031.5627	0.0504		2,032.8217
<b>Total</b>	<b>1.2657</b>	<b>6.6234</b>	<b>8.9972</b>	<b>0.0349</b>	<b>7.4104</b>	<b>0.0313</b>	<b>7.4418</b>	<b>1.8816</b>	<b>0.0294</b>	<b>1.9110</b>		<b>3,571.7425</b>	<b>3,571.7425</b>	<b>0.1421</b>		<b>3,575.2946</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8091	26.7405	30.9439	0.0497		1.3769	1.3769		1.2836	1.2836	0.0000	4,761.9939	4,761.9939	1.3260		4,795.1426
<b>Total</b>	<b>2.8091</b>	<b>26.7405</b>	<b>30.9439</b>	<b>0.0497</b>		<b>1.3769</b>	<b>1.3769</b>		<b>1.2836</b>	<b>1.2836</b>	<b>0.0000</b>	<b>4,761.9939</b>	<b>4,761.9939</b>	<b>1.3260</b>		<b>4,795.1426</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1853	5.9103	1.6734	0.0145	0.8205	0.0157	0.8361	0.2169	0.0150	0.2319		1,540.179 8	1,540.179 8	0.0917		1,542.472 9
Worker	1.0804	0.7130	7.3238	0.0204	5.9605	0.0157	5.9762	1.5102	0.0144	1.5246		2,031.562 7	2,031.562 7	0.0504		2,032.821 7
<b>Total</b>	<b>1.2657</b>	<b>6.6234</b>	<b>8.9972</b>	<b>0.0349</b>	<b>6.7810</b>	<b>0.0313</b>	<b>6.8123</b>	<b>1.7271</b>	<b>0.0294</b>	<b>1.7565</b>		<b>3,571.742 5</b>	<b>3,571.742 5</b>	<b>0.1421</b>		<b>3,575.294 6</b>

**3.5 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	lb/day										lb/day					
Off-Road	2.6055	24.5765	30.8282	0.0498		1.2099	1.2099		1.1278	1.1278		4,762.794 1	4,762.794 1	1.3218		4,795.839 6
<b>Total</b>	<b>2.6055</b>	<b>24.5765</b>	<b>30.8282</b>	<b>0.0498</b>		<b>1.2099</b>	<b>1.2099</b>		<b>1.1278</b>	<b>1.1278</b>		<b>4,762.794 1</b>	<b>4,762.794 1</b>	<b>1.3218</b>		<b>4,795.839 6</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1469	4.9907	1.4747	0.0143	0.8912	7.5500e-003	0.8987	0.2343	7.2200e-003	0.2415		1,511.7736	1,511.7736	0.0821		1,513.8268
Worker	1.0123	0.6414	6.7103	0.0196	6.5192	0.0153	6.5345	1.6473	0.0141	1.6614		1,955.3019	1,955.3019	0.0450		1,956.4277
<b>Total</b>	<b>1.1592</b>	<b>5.6321</b>	<b>8.1850</b>	<b>0.0339</b>	<b>7.4104</b>	<b>0.0228</b>	<b>7.4332</b>	<b>1.8816</b>	<b>0.0213</b>	<b>1.9029</b>		<b>3,467.0755</b>	<b>3,467.0755</b>	<b>0.1272</b>		<b>3,470.2545</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6055	24.5765	30.8282	0.0498		1.2099	1.2099		1.1278	1.1278	0.0000	4,762.7941	4,762.7941	1.3218		4,795.8396
<b>Total</b>	<b>2.6055</b>	<b>24.5765</b>	<b>30.8282</b>	<b>0.0498</b>		<b>1.2099</b>	<b>1.2099</b>		<b>1.1278</b>	<b>1.1278</b>	<b>0.0000</b>	<b>4,762.7941</b>	<b>4,762.7941</b>	<b>1.3218</b>		<b>4,795.8396</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1469	4.9907	1.4747	0.0143	0.8204	7.5500e-003	0.8280	0.2169	7.2200e-003	0.2241		1,511.7736	1,511.7736	0.0821		1,513.8268
Worker	1.0123	0.6414	6.7103	0.0196	5.9605	0.0153	5.9758	1.5102	0.0141	1.5243		1,955.3019	1,955.3019	0.0450		1,956.4277
<b>Total</b>	<b>1.1592</b>	<b>5.6321</b>	<b>8.1850</b>	<b>0.0339</b>	<b>6.7810</b>	<b>0.0228</b>	<b>6.8038</b>	<b>1.7271</b>	<b>0.0213</b>	<b>1.7484</b>		<b>3,467.0755</b>	<b>3,467.0755</b>	<b>0.1272</b>		<b>3,470.2545</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>9.8551</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2104	0.1444	1.4544	3.8500e-003	0.4336	2.9300e-003	0.4365	0.1150	2.7000e-003	0.1177		383.7036	383.7036	0.0102		383.9593
<b>Total</b>	<b>0.2104</b>	<b>0.1444</b>	<b>1.4544</b>	<b>3.8500e-003</b>	<b>0.4336</b>	<b>2.9300e-003</b>	<b>0.4365</b>	<b>0.1150</b>	<b>2.7000e-003</b>	<b>0.1177</b>		<b>383.7036</b>	<b>383.7036</b>	<b>0.0102</b>		<b>383.9593</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>9.8551</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2104	0.1444	1.4544	3.8500e-003	0.3997	2.9300e-003	0.4026	0.1067	2.7000e-003	0.1094		383.7036	383.7036	0.0102		383.9593
<b>Total</b>	<b>0.2104</b>	<b>0.1444</b>	<b>1.4544</b>	<b>3.8500e-003</b>	<b>0.3997</b>	<b>2.9300e-003</b>	<b>0.4026</b>	<b>0.1067</b>	<b>2.7000e-003</b>	<b>0.1094</b>		<b>383.7036</b>	<b>383.7036</b>	<b>0.0102</b>		<b>383.9593</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>9.8407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1967	0.1299	1.3337	3.7100e-003	0.4336	2.8500e-003	0.4365	0.1150	2.6300e-003	0.1176		369.9651	369.9651	9.1700e-003		370.1944
<b>Total</b>	<b>0.1967</b>	<b>0.1299</b>	<b>1.3337</b>	<b>3.7100e-003</b>	<b>0.4336</b>	<b>2.8500e-003</b>	<b>0.4365</b>	<b>0.1150</b>	<b>2.6300e-003</b>	<b>0.1176</b>		<b>369.9651</b>	<b>369.9651</b>	<b>9.1700e-003</b>		<b>370.1944</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>9.8407</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1967	0.1299	1.3337	3.7100e-003	0.3997	2.8500e-003	0.4025	0.1067	2.6300e-003	0.1093		369.9651	369.9651	9.1700e-003		370.1944
<b>Total</b>	<b>0.1967</b>	<b>0.1299</b>	<b>1.3337</b>	<b>3.7100e-003</b>	<b>0.3997</b>	<b>2.8500e-003</b>	<b>0.4025</b>	<b>0.1067</b>	<b>2.6300e-003</b>	<b>0.1093</b>		<b>369.9651</b>	<b>369.9651</b>	<b>9.1700e-003</b>		<b>370.1944</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.8278</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1844	0.1168	1.2220	3.5700e-003	0.4336	2.7800e-003	0.4364	0.1150	2.5600e-003	0.1176		356.0773	356.0773	8.2000e-003		356.2824
<b>Total</b>	<b>0.1844</b>	<b>0.1168</b>	<b>1.2220</b>	<b>3.5700e-003</b>	<b>0.4336</b>	<b>2.7800e-003</b>	<b>0.4364</b>	<b>0.1150</b>	<b>2.5600e-003</b>	<b>0.1176</b>		<b>356.0773</b>	<b>356.0773</b>	<b>8.2000e-003</b>		<b>356.2824</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>9.8278</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1844	0.1168	1.2220	3.5700e-003	0.3997	2.7800e-003	0.4025	0.1067	2.5600e-003	0.1093		356.0773	356.0773	8.2000e-003		356.2824
<b>Total</b>	<b>0.1844</b>	<b>0.1168</b>	<b>1.2220</b>	<b>3.5700e-003</b>	<b>0.3997</b>	<b>2.7800e-003</b>	<b>0.4025</b>	<b>0.1067</b>	<b>2.5600e-003</b>	<b>0.1093</b>		<b>356.0773</b>	<b>356.0773</b>	<b>8.2000e-003</b>		<b>356.2824</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4533	13.8980	31.5599	0.1419	17.6509	0.0745	17.7253	4.7125	0.0692	4.7817		14,485.74 39	14,485.74 39	0.5530		14,499.56 86
Unmitigated	2.4533	13.8980	31.5599	0.1419	17.6509	0.0745	17.7253	4.7125	0.0692	4.7817		14,485.74 39	14,485.74 39	0.5530		14,499.56 86

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.93	23.21	17.07	13,157	13,157
Retirement Community	556.80	470.96	452.40	1,359,070	1,359,070
Single Family Housing	2,570.40	2,675.70	2327.40	6,545,448	6,545,448
Total	3,129.13	3,169.87	2,796.87	7,917,674	7,917,674

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649
NaturalGas Unmitigated	0.2890	2.4699	1.0510	0.0158		0.1997	0.1997		0.1997	0.1997		3,153.0280	3,153.0280	0.0604	0.0578	3,171.7649

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	7690.15	0.0829	0.7087	0.3016	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.7230	904.7230	0.0173	0.0166	910.0993
Single Family Housing	19110.6	0.2061	1.7612	0.7494	0.0112		0.1424	0.1424		0.1424	0.1424		2,248.3050	2,248.3050	0.0431	0.0412	2,261.6656
<b>Total</b>		<b>0.2890</b>	<b>2.4699</b>	<b>1.0510</b>	<b>0.0158</b>		<b>0.1997</b>	<b>0.1997</b>		<b>0.1997</b>	<b>0.1997</b>		<b>3,153.0280</b>	<b>3,153.0280</b>	<b>0.0604</b>	<b>0.0578</b>	<b>3,171.7649</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	7.69015	0.0829	0.7087	0.3016	4.5200e-003		0.0573	0.0573		0.0573	0.0573		904.7230	904.7230	0.0173	0.0166	910.0993
Single Family Housing	19.1106	0.2061	1.7612	0.7494	0.0112		0.1424	0.1424		0.1424	0.1424		2,248.3050	2,248.3050	0.0431	0.0412	2,261.6656
<b>Total</b>		<b>0.2890</b>	<b>2.4699</b>	<b>1.0510</b>	<b>0.0158</b>		<b>0.1997</b>	<b>0.1997</b>		<b>0.1997</b>	<b>0.1997</b>		<b>3,153.0280</b>	<b>3,153.0280</b>	<b>0.0604</b>	<b>0.0578</b>	<b>3,171.7649</b>

**6.0 Area Detail**

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**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	lb/day										lb/day					
Mitigated	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482
Unmitigated	19.2304	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297	0.0000	74.5735	74.5735	0.0710	0.0000	76.3482

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4795					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5169					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	1.2340	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297		74.5735	74.5735	0.0710		76.3482
<b>Total</b>	<b>19.2304</b>	<b>0.4761</b>	<b>41.2702</b>	<b>2.1900e-003</b>		<b>0.2297</b>	<b>0.2297</b>		<b>0.2297</b>	<b>0.2297</b>	<b>0.0000</b>	<b>74.5735</b>	<b>74.5735</b>	<b>0.0710</b>	<b>0.0000</b>	<b>76.3482</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4795					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.5169					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	1.2340	0.4761	41.2702	2.1900e-003		0.2297	0.2297		0.2297	0.2297		74.5735	74.5735	0.0710		76.3482
<b>Total</b>	<b>19.2304</b>	<b>0.4761</b>	<b>41.2702</b>	<b>2.1900e-003</b>		<b>0.2297</b>	<b>0.2297</b>		<b>0.2297</b>	<b>0.2297</b>	<b>0.0000</b>	<b>74.5735</b>	<b>74.5735</b>	<b>0.0710</b>	<b>0.0000</b>	<b>76.3482</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

The Ranch - City of Rancho Cordova (Construction Only - Phase 1) - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Construction Only - Phase 2)**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	197.00	Dwelling Unit	20.87	354,600.00	559
Retirement Community	210.00	Dwelling Unit	25.97	210,000.00	437
City Park	0.50	Acre	1.40	21,780.00	0
City Park	1.02	Acre	1.23	44,576.40	0
City Park	2.20	Acre	2.20	95,832.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

Project Characteristics - Estimated construction state date of April 2022 for Phase 2 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 2

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - D

Trips and VMT - Default values.

Grading - No grading during Phase 2. Grading for phase 2 occurred under Phase 1.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	609.00
tblConstructionPhase	NumDays	1,110.00	609.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	PhaseEndDate	8/26/2026	11/28/2025
tblConstructionPhase	PhaseEndDate	1/28/2026	7/31/2025
tblConstructionPhase	PhaseEndDate	5/13/2026	12/30/2022
tblConstructionPhase	PhaseStartDate	5/14/2026	8/1/2023
tblConstructionPhase	PhaseStartDate	10/28/2021	4/1/2023
tblConstructionPhase	PhaseStartDate	1/29/2026	10/1/2022
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	63.96	20.87
tblLandUse	LotAcreage	42.00	25.97
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	526.00	559.00
tblLandUse	Population	561.00	437.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

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**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	0.1525	1.3875	1.5807	2.6100e-003	0.0206	0.0715	0.0922	5.2900e-003	0.0669	0.0722	0.0000	226.0000	226.0000	0.0576	0.0000	227.4409
2023	0.6736	2.0914	2.5062	6.4400e-003	0.2708	0.0744	0.3452	0.0729	0.0702	0.1432	0.0000	579.0961	579.0961	0.0668	0.0000	580.7649
2024	1.3251	2.7346	3.4479	8.9100e-003	0.3884	0.0915	0.4799	0.1045	0.0865	0.1911	0.0000	800.8706	800.8706	0.0898	0.0000	803.1147
2025	1.0842	1.5479	2.0730	5.3700e-003	0.2437	0.0481	0.2918	0.0655	0.0456	0.1112	0.0000	482.4640	482.4640	0.0523	0.0000	483.7717
<b>Maximum</b>	<b>1.3251</b>	<b>2.7346</b>	<b>3.4479</b>	<b>8.9100e-003</b>	<b>0.3884</b>	<b>0.0915</b>	<b>0.4799</b>	<b>0.1045</b>	<b>0.0865</b>	<b>0.1911</b>	<b>0.0000</b>	<b>800.8706</b>	<b>800.8706</b>	<b>0.0898</b>	<b>0.0000</b>	<b>803.1147</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1525	1.3875	1.5807	2.6100e-003	0.0189	0.0715	0.0904	4.8700e-003	0.0669	0.0718	0.0000	225.9997	225.9997	0.0576	0.0000	227.4406
2023	0.6736	2.0914	2.5062	6.4400e-003	0.2503	0.0744	0.3247	0.0679	0.0702	0.1381	0.0000	579.0958	579.0958	0.0668	0.0000	580.7646
2024	1.3251	2.7346	3.4479	8.9100e-003	0.3590	0.0915	0.4505	0.0973	0.0865	0.1839	0.0000	800.8702	800.8702	0.0898	0.0000	803.1143
2025	1.0842	1.5479	2.0730	5.3700e-003	0.2251	0.0481	0.2733	0.0610	0.0456	0.1066	0.0000	482.4638	482.4638	0.0523	0.0000	483.7715
<b>Maximum</b>	<b>1.3251</b>	<b>2.7346</b>	<b>3.4479</b>	<b>8.9100e-003</b>	<b>0.3590</b>	<b>0.0915</b>	<b>0.4505</b>	<b>0.0973</b>	<b>0.0865</b>	<b>0.1839</b>	<b>0.0000</b>	<b>800.8702</b>	<b>800.8702</b>	<b>0.0898</b>	<b>0.0000</b>	<b>803.1143</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.60</b>	<b>0.00</b>	<b>5.80</b>	<b>6.94</b>	<b>0.00</b>	<b>3.33</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
5	4-1-2022	6-30-2022	0.5671	0.5671
6	7-1-2022	9-30-2022	0.5734	0.5734
7	10-1-2022	12-31-2022	0.3974	0.3974
9	4-1-2023	6-30-2023	0.7567	0.7567
10	7-1-2023	9-30-2023	0.9635	0.9635
11	10-1-2023	12-31-2023	1.0680	1.0680
12	1-1-2024	3-31-2024	1.0112	1.0112
13	4-1-2024	6-30-2024	1.0079	1.0079

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14	7-1-2024	9-30-2024	1.0190	1.0190
15	10-1-2024	12-31-2024	1.0224	1.0224
16	1-1-2025	3-31-2025	0.9555	0.9555
17	4-1-2025	6-30-2025	0.9630	0.9630
18	7-1-2025	9-30-2025	0.5218	0.5218
		Highest	1.0680	1.0680

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7154	0.0483	4.1826	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	6.8562	6.8562	6.5300e-003	0.0000	7.0194
Energy	0.0411	0.3516	0.1496	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	1,116.0081	1,116.0081	0.0426	0.0147	1,121.4453
Mobile	0.3488	1.8102	4.0705	0.0192	2.2531	9.8000e-003	2.2629	0.6032	9.1100e-003	0.6124	0.0000	1,776.0278	1,776.0278	0.0648	0.0000	1,777.6465
Waste						0.0000	0.0000		0.0000	0.0000	60.5238	0.0000	60.5238	3.5769	0.0000	149.9451
Water						0.0000	0.0000		0.0000	0.0000	9.3820	55.1993	64.5813	0.0350	0.0210	71.7036
<b>Total</b>	<b>3.1053</b>	<b>2.2100</b>	<b>8.4027</b>	<b>0.0216</b>	<b>2.2531</b>	<b>0.0615</b>	<b>2.3146</b>	<b>0.6032</b>	<b>0.0608</b>	<b>0.6641</b>	<b>69.9058</b>	<b>2,954.0914</b>	<b>3,023.9972</b>	<b>3.7258</b>	<b>0.0356</b>	<b>3,127.7599</b>





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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,057.243 0
<b>Total</b>	<b>528.6770</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	8/1/2023	11/28/2025	5	609	
2	Building Construction	Building Construction	4/1/2023	7/31/2025	5	609	
3	Improvements for Phase 2	Trenching	4/1/2022	9/30/2022	5	131	
4	Paving	Paving	10/1/2022	12/30/2022	5	65	

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

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

**Acres of Paving: 0**

**Residential Indoor: 1,143,315; Residential Outdoor: 381,105; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

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**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Improvements for Phase 2	Cranes	1	7.00	231	0.29
Improvements for Phase 2	Forklifts	3	8.00	89	0.20
Improvements for Phase 2	Generator Sets	1	8.00	84	0.74
Improvements for Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Improvements for Phase 2	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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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
Improvements for Phase 2 Building Construction	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Improvements for Phase 2 Paving	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	0.3988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0710	0.0987	1.6000e-004	3.8600e-003	3.8600e-003	3.8600e-003	3.8600e-003	3.8600e-003	3.8600e-003	0.0000	13.9152	13.9152	8.3000e-004	0.0000	13.9361
<b>Total</b>	<b>0.4093</b>	<b>0.0710</b>	<b>0.0987</b>	<b>1.6000e-004</b>	<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>13.9152</b>	<b>13.9152</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>13.9361</b>

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**3.2 Architectural Coating - 2023**

**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	9.5700e-003	5.7900e-003	0.0675	2.0000e-004	0.0232	1.5000e-004	0.0234	6.1700e-003	1.4000e-004	6.3200e-003	0.0000	18.4383	18.4383	4.2000e-004	0.0000	18.4488
<b>Total</b>	<b>9.5700e-003</b>	<b>5.7900e-003</b>	<b>0.0675</b>	<b>2.0000e-004</b>	<b>0.0232</b>	<b>1.5000e-004</b>	<b>0.0234</b>	<b>6.1700e-003</b>	<b>1.4000e-004</b>	<b>6.3200e-003</b>	<b>0.0000</b>	<b>18.4383</b>	<b>18.4383</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>18.4488</b>

**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	0.3988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0710	0.0987	1.6000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	13.9152	13.9152	8.3000e-004	0.0000	13.9360
<b>Total</b>	<b>0.4093</b>	<b>0.0710</b>	<b>0.0987</b>	<b>1.6000e-004</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>		<b>3.8600e-003</b>	<b>3.8600e-003</b>	<b>0.0000</b>	<b>13.9152</b>	<b>13.9152</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>13.9360</b>

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**3.2 Architectural Coating - 2023**

**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	9.5700e-003	5.7900e-003	0.0675	2.0000e-004	0.0214	1.5000e-004	0.0216	5.7300e-003	1.4000e-004	5.8700e-003	0.0000	18.4383	18.4383	4.2000e-004	0.0000	18.4488
<b>Total</b>	<b>9.5700e-003</b>	<b>5.7900e-003</b>	<b>0.0675</b>	<b>2.0000e-004</b>	<b>0.0214</b>	<b>1.5000e-004</b>	<b>0.0216</b>	<b>5.7300e-003</b>	<b>1.4000e-004</b>	<b>5.8700e-003</b>	<b>0.0000</b>	<b>18.4383</b>	<b>18.4383</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>18.4488</b>

**3.2 Architectural Coating - 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					
Archit. Coating	0.9587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>0.9823</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.2 Architectural Coating - 2024**

**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	0.0216	0.0126	0.1503	4.7000e-004	0.0558	3.6000e-004	0.0562	0.0148	3.3000e-004	0.0152	0.0000	42.5967	42.5967	9.1000e-004	0.0000	42.6195
<b>Total</b>	<b>0.0216</b>	<b>0.0126</b>	<b>0.1503</b>	<b>4.7000e-004</b>	<b>0.0558</b>	<b>3.6000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.3000e-004</b>	<b>0.0152</b>	<b>0.0000</b>	<b>42.5967</b>	<b>42.5967</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>42.6195</b>

**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	0.9587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>0.9823</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.2 Architectural Coating - 2024**

**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	0.0216	0.0126	0.1503	4.7000e-004	0.0515	3.6000e-004	0.0518	0.0138	3.3000e-004	0.0141	0.0000	42.5967	42.5967	9.1000e-004	0.0000	42.6195
<b>Total</b>	<b>0.0216</b>	<b>0.0126</b>	<b>0.1503</b>	<b>4.7000e-004</b>	<b>0.0515</b>	<b>3.6000e-004</b>	<b>0.0518</b>	<b>0.0138</b>	<b>3.3000e-004</b>	<b>0.0141</b>	<b>0.0000</b>	<b>42.5967</b>	<b>42.5967</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>42.6195</b>

**3.2 Architectural Coating - 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					
Archit. Coating	0.8708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.1363	0.2153	3.5000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	30.3837	30.3837	1.6600e-003	0.0000	30.4252
<b>Total</b>	<b>0.8912</b>	<b>0.1363</b>	<b>0.2153</b>	<b>3.5000e-004</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>	<b>0.0000</b>	<b>30.3837</b>	<b>30.3837</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>30.4252</b>



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**3.2 Architectural Coating - 2025**

**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	0.0186	0.0104	0.1265	4.1000e-004	0.0507	3.2000e-004	0.0510	0.0135	3.0000e-004	0.0138	0.0000	37.1455	37.1455	7.5000e-004	0.0000	37.1643
<b>Total</b>	<b>0.0186</b>	<b>0.0104</b>	<b>0.1265</b>	<b>4.1000e-004</b>	<b>0.0507</b>	<b>3.2000e-004</b>	<b>0.0510</b>	<b>0.0135</b>	<b>3.0000e-004</b>	<b>0.0138</b>	<b>0.0000</b>	<b>37.1455</b>	<b>37.1455</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>37.1643</b>

**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	0.8708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.1363	0.2153	3.5000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	30.3837	30.3837	1.6600e-003	0.0000	30.4251
<b>Total</b>	<b>0.8912</b>	<b>0.1363</b>	<b>0.2153</b>	<b>3.5000e-004</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>		<b>6.1300e-003</b>	<b>6.1300e-003</b>	<b>0.0000</b>	<b>30.3837</b>	<b>30.3837</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>30.4251</b>

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**3.2 Architectural Coating - 2025**

**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	0.0186	0.0104	0.1265	4.1000e-004	0.0468	3.2000e-004	0.0471	0.0125	3.0000e-004	0.0128	0.0000	37.1455	37.1455	7.5000e-004	0.0000	37.1643
<b>Total</b>	<b>0.0186</b>	<b>0.0104</b>	<b>0.1265</b>	<b>4.1000e-004</b>	<b>0.0468</b>	<b>3.2000e-004</b>	<b>0.0471</b>	<b>0.0125</b>	<b>3.0000e-004</b>	<b>0.0128</b>	<b>0.0000</b>	<b>37.1455</b>	<b>37.1455</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>37.1643</b>

**3.3 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	0.1533	1.4025	1.5838	2.6300e-003		0.0682	0.0682		0.0642	0.0642	0.0000	226.0096	226.0096	0.0538	0.0000	227.3537
<b>Total</b>	<b>0.1533</b>	<b>1.4025</b>	<b>1.5838</b>	<b>2.6300e-003</b>		<b>0.0682</b>	<b>0.0682</b>		<b>0.0642</b>	<b>0.0642</b>	<b>0.0000</b>	<b>226.0096</b>	<b>226.0096</b>	<b>0.0538</b>	<b>0.0000</b>	<b>227.3537</b>

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**3.3 Building Construction - 2023**

**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	0.0158	0.5603	0.1522	1.6200e-003	0.0399	8.1000e-004	0.0407	0.0115	7.7000e-004	0.0123	0.0000	155.8032	155.8032	7.9800e-003	0.0000	156.0027
Worker	0.0857	0.0518	0.6040	1.8200e-003	0.2077	1.3800e-003	0.2090	0.0552	1.2700e-003	0.0565	0.0000	164.9297	164.9297	3.7600e-003	0.0000	165.0236
<b>Total</b>	<b>0.1014</b>	<b>0.6120</b>	<b>0.7562</b>	<b>3.4400e-003</b>	<b>0.2476</b>	<b>2.1900e-003</b>	<b>0.2497</b>	<b>0.0668</b>	<b>2.0400e-003</b>	<b>0.0688</b>	<b>0.0000</b>	<b>320.7329</b>	<b>320.7329</b>	<b>0.0117</b>	<b>0.0000</b>	<b>321.0264</b>

**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	0.1533	1.4025	1.5838	2.6300e-003		0.0682	0.0682		0.0642	0.0642	0.0000	226.0094	226.0094	0.0538	0.0000	227.3535
<b>Total</b>	<b>0.1533</b>	<b>1.4025</b>	<b>1.5838</b>	<b>2.6300e-003</b>		<b>0.0682</b>	<b>0.0682</b>		<b>0.0642</b>	<b>0.0642</b>	<b>0.0000</b>	<b>226.0094</b>	<b>226.0094</b>	<b>0.0538</b>	<b>0.0000</b>	<b>227.3535</b>

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**3.3 Building Construction - 2023**

**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	0.0158	0.5603	0.1522	1.6200e-003	0.0374	8.1000e-004	0.0382	0.0109	7.7000e-004	0.0117	0.0000	155.8032	155.8032	7.9800e-003	0.0000	156.0027
Worker	0.0857	0.0518	0.6040	1.8200e-003	0.1915	1.3800e-003	0.1929	0.0513	1.2700e-003	0.0525	0.0000	164.9297	164.9297	3.7600e-003	0.0000	165.0236
<b>Total</b>	<b>0.1014</b>	<b>0.6120</b>	<b>0.7562</b>	<b>3.4400e-003</b>	<b>0.2289</b>	<b>2.1900e-003</b>	<b>0.2311</b>	<b>0.0622</b>	<b>2.0400e-003</b>	<b>0.0642</b>	<b>0.0000</b>	<b>320.7329</b>	<b>320.7329</b>	<b>0.0117</b>	<b>0.0000</b>	<b>321.0264</b>

**3.3 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>

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**3.3 Building Construction - 2024**

**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	0.0202	0.7384	0.1912	2.1600e-003	0.0536	1.0300e-003	0.0546	0.0155	9.8000e-004	0.0165	0.0000	208.1204	208.1204	0.0106	0.0000	208.3851
Worker	0.1082	0.0629	0.7515	2.3600e-003	0.2790	1.8100e-003	0.2808	0.0742	1.6700e-003	0.0759	0.0000	212.9836	212.9836	4.5600e-003	0.0000	213.0975
<b>Total</b>	<b>0.1284</b>	<b>0.8013</b>	<b>0.9427</b>	<b>4.5200e-003</b>	<b>0.3326</b>	<b>2.8400e-003</b>	<b>0.3355</b>	<b>0.0897</b>	<b>2.6500e-003</b>	<b>0.0924</b>	<b>0.0000</b>	<b>421.1040</b>	<b>421.1040</b>	<b>0.0152</b>	<b>0.0000</b>	<b>421.4826</b>

**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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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**3.3 Building Construction - 2024**

**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	0.0202	0.7384	0.1912	2.1600e-003	0.0502	1.0300e-003	0.0512	0.0147	9.8000e-004	0.0156	0.0000	208.1204	208.1204	0.0106	0.0000	208.3851
Worker	0.1082	0.0629	0.7515	2.3600e-003	0.2573	1.8100e-003	0.2591	0.0689	1.6700e-003	0.0706	0.0000	212.9836	212.9836	4.5600e-003	0.0000	213.0975
<b>Total</b>	<b>0.1284</b>	<b>0.8013</b>	<b>0.9427</b>	<b>4.5200e-003</b>	<b>0.3075</b>	<b>2.8400e-003</b>	<b>0.3103</b>	<b>0.0835</b>	<b>2.6500e-003</b>	<b>0.0862</b>	<b>0.0000</b>	<b>421.1040</b>	<b>421.1040</b>	<b>0.0152</b>	<b>0.0000</b>	<b>421.4826</b>

**3.3 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	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2588	176.2588	0.0414	0.0000	177.2946
<b>Total</b>	<b>0.1039</b>	<b>0.9477</b>	<b>1.2224</b>	<b>2.0500e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>176.2588</b>	<b>176.2588</b>	<b>0.0414</b>	<b>0.0000</b>	<b>177.2946</b>

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**3.3 Building Construction - 2025**

**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	0.0112	0.4205	0.1050	1.2500e-003	0.0311	5.7000e-004	0.0317	8.9800e-003	5.4000e-004	9.5200e-003	0.0000	120.0600	120.0600	6.0700e-003	0.0000	120.2118
Worker	0.0593	0.0331	0.4038	1.3100e-003	0.1619	1.0300e-003	0.1629	0.0431	9.5000e-004	0.0440	0.0000	118.6160	118.6160	2.4000e-003	0.0000	118.6758
<b>Total</b>	<b>0.0705</b>	<b>0.4536</b>	<b>0.5089</b>	<b>2.5600e-003</b>	<b>0.1930</b>	<b>1.6000e-003</b>	<b>0.1946</b>	<b>0.0520</b>	<b>1.4900e-003</b>	<b>0.0535</b>	<b>0.0000</b>	<b>238.6760</b>	<b>238.6760</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>238.8877</b>

**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	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2586	176.2586	0.0414	0.0000	177.2944
<b>Total</b>	<b>0.1039</b>	<b>0.9477</b>	<b>1.2224</b>	<b>2.0500e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>176.2586</b>	<b>176.2586</b>	<b>0.0414</b>	<b>0.0000</b>	<b>177.2944</b>

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**3.3 Building Construction - 2025**

**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	0.0112	0.4205	0.1050	1.2500e-003	0.0291	5.7000e-004	0.0297	8.5000e-003	5.4000e-004	9.0400e-003	0.0000	120.0600	120.0600	6.0700e-003	0.0000	120.2118
Worker	0.0593	0.0331	0.4038	1.3100e-003	0.1493	1.0300e-003	0.1503	0.0400	9.5000e-004	0.0409	0.0000	118.6160	118.6160	2.4000e-003	0.0000	118.6758
<b>Total</b>	<b>0.0705</b>	<b>0.4536</b>	<b>0.5089</b>	<b>2.5600e-003</b>	<b>0.1784</b>	<b>1.6000e-003</b>	<b>0.1800</b>	<b>0.0485</b>	<b>1.4900e-003</b>	<b>0.0500</b>	<b>0.0000</b>	<b>238.6760</b>	<b>238.6760</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>238.8877</b>

**3.4 Improvements for Phase 2 - 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	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7800	151.7800	0.0364	0.0000	152.6891
<b>Total</b>	<b>0.1118</b>	<b>1.0228</b>	<b>1.0718</b>	<b>1.7600e-003</b>		<b>0.0530</b>	<b>0.0530</b>		<b>0.0499</b>	<b>0.0499</b>	<b>0.0000</b>	<b>151.7800</b>	<b>151.7800</b>	<b>0.0364</b>	<b>0.0000</b>	<b>152.6891</b>



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**3.4 Improvements for Phase 2 - 2022**

**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	4.8800e-003	3.0700e-003	0.0350	1.0000e-004	0.0206	8.0000e-005	0.0207	5.2900e-003	7.0000e-005	5.3600e-003	0.0000	9.1304	9.1304	2.2000e-004	0.0000	9.1359
<b>Total</b>	<b>4.8800e-003</b>	<b>3.0700e-003</b>	<b>0.0350</b>	<b>1.0000e-004</b>	<b>0.0206</b>	<b>8.0000e-005</b>	<b>0.0207</b>	<b>5.2900e-003</b>	<b>7.0000e-005</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>9.1304</b>	<b>9.1304</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>9.1359</b>

**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	0.1118	1.0228	1.0718	1.7600e-003		0.0530	0.0530		0.0499	0.0499	0.0000	151.7799	151.7799	0.0364	0.0000	152.6889
<b>Total</b>	<b>0.1118</b>	<b>1.0228</b>	<b>1.0718</b>	<b>1.7600e-003</b>		<b>0.0530</b>	<b>0.0530</b>		<b>0.0499</b>	<b>0.0499</b>	<b>0.0000</b>	<b>151.7799</b>	<b>151.7799</b>	<b>0.0364</b>	<b>0.0000</b>	<b>152.6889</b>

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**3.4 Improvements for Phase 2 - 2022**

**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	4.8800e-003	3.0700e-003	0.0350	1.0000e-004	0.0189	8.0000e-005	0.0190	4.8700e-003	7.0000e-005	4.9400e-003	0.0000	9.1304	9.1304	2.2000e-004	0.0000	9.1359
<b>Total</b>	<b>4.8800e-003</b>	<b>3.0700e-003</b>	<b>0.0350</b>	<b>1.0000e-004</b>	<b>0.0189</b>	<b>8.0000e-005</b>	<b>0.0190</b>	<b>4.8700e-003</b>	<b>7.0000e-005</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>9.1304</b>	<b>9.1304</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>9.1359</b>

**3.5 Paving - 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	0.0358	0.3616	0.4739	7.4000e-004		0.0185	0.0185		0.0170	0.0170	0.0000	65.0896	65.0896	0.0211	0.0000	65.6158
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0358</b>	<b>0.3616</b>	<b>0.4739</b>	<b>7.4000e-004</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0170</b>	<b>0.0170</b>	<b>0.0000</b>	<b>65.0896</b>	<b>65.0896</b>	<b>0.0211</b>	<b>0.0000</b>	<b>65.6158</b>

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**3.5 Paving - 2022**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	0.0358	0.3616	0.4739	7.4000e-004		0.0185	0.0185		0.0170	0.0170	0.0000	65.0895	65.0895	0.0211	0.0000	65.6158
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0358</b>	<b>0.3616</b>	<b>0.4739</b>	<b>7.4000e-004</b>		<b>0.0185</b>	<b>0.0185</b>		<b>0.0170</b>	<b>0.0170</b>	<b>0.0000</b>	<b>65.0895</b>	<b>65.0895</b>	<b>0.0211</b>	<b>0.0000</b>	<b>65.6158</b>

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**3.5 Paving - 2022**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3488	1.8102	4.0705	0.0192	2.2531	9.8000e-003	2.2629	0.6032	9.1100e-003	0.6124	0.0000	1,776.0278	1,776.0278	0.0648	0.0000	1,777.6465
Unmitigated	0.3488	1.8102	4.0705	0.0192	2.2531	9.8000e-003	2.2629	0.6032	9.1100e-003	0.6124	0.0000	1,776.0278	1,776.0278	0.0648	0.0000	1,777.6465

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.95	11.38	8.37	6,449	6,449
City Park	1.93	23.28	17.13	13,200	13,200
City Park	4.16	50.05	36.83	28,377	28,377
Retirement Community	504.00	426.30	409.50	1,230,193	1,230,193
Single Family Housing	1,875.44	1,952.27	1698.14	4,775,752	4,775,752
<b>Total</b>	<b>2,386.48</b>	<b>2,463.28</b>	<b>2,169.97</b>	<b>6,053,972</b>	<b>6,053,972</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	708.8334	708.8334	0.0348	7.2000e-003	711.8510
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	708.8334	708.8334	0.0348	7.2000e-003	711.8510
NaturalGas Mitigated	0.0411	0.3516	0.1496	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.1747	407.1747	7.8000e-003	7.4600e-003	409.5943
NaturalGas Unmitigated	0.0411	0.3516	0.1496	2.2400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.1747	407.1747	7.8000e-003	7.4600e-003	409.5943

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.54073e+006	0.0137	0.1171	0.0498	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003	0.0000	135.5831	135.5831	2.6000e-003	2.4900e-003	136.3888
Single Family Housing	5.08943e+006	0.0274	0.2345	0.0998	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	271.5916	271.5916	5.2100e-003	4.9800e-003	273.2055
<b>Total</b>		<b>0.0411</b>	<b>0.3516</b>	<b>0.1496</b>	<b>2.2500e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>407.1747</b>	<b>407.1747</b>	<b>7.8100e-003</b>	<b>7.4700e-003</b>	<b>409.5943</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	2.54073e+006	0.0137	0.1171	0.0498	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003	0.0000	135.5831	135.5831	2.6000e-003	2.4900e-003	136.3888
Single Family Housing	5.08943e+006	0.0274	0.2345	0.0998	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	271.5916	271.5916	5.2100e-003	4.9800e-003	273.2055
<b>Total</b>		<b>0.0411</b>	<b>0.3516</b>	<b>0.1496</b>	<b>2.2500e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>	<b>0.0000</b>	<b>407.1747</b>	<b>407.1747</b>	<b>7.8100e-003</b>	<b>7.4700e-003</b>	<b>409.5943</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	983846	263.4347	0.0129	2.6800e-003	264.5561
Single Family Housing	1.66342e+006	445.3988	0.0219	4.5300e-003	447.2949
<b>Total</b>		<b>708.8334</b>	<b>0.0348</b>	<b>7.2100e-003</b>	<b>711.8510</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	983846	263.4347	0.0129	2.6800e-003	264.5561
Single Family Housing	1.66342e+006	445.3988	0.0219	4.5300e-003	447.2949
<b>Total</b>		<b>708.8334</b>	<b>0.0348</b>	<b>7.2100e-003</b>	<b>711.8510</b>

**6.0 Area Detail**



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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7154	0.0483	4.1826	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	6.8562	6.8562	6.5300e-003	0.0000	7.0194
Unmitigated	2.7154	0.0483	4.1826	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	6.8562	6.8562	6.5300e-003	0.0000	7.0194

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2338					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	0.1251	0.0483	4.1826	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	6.8562	6.8562	6.5300e-003	0.0000	7.0194
<b>Total</b>	<b>2.7154</b>	<b>0.0483</b>	<b>4.1826</b>	<b>2.2000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0233</b>	<b>0.0233</b>	<b>0.0000</b>	<b>6.8562</b>	<b>6.8562</b>	<b>6.5300e-003</b>	<b>0.0000</b>	<b>7.0194</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2338					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	0.1251	0.0483	4.1826	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	6.8562	6.8562	6.5300e-003	0.0000	7.0194
<b>Total</b>	<b>2.7154</b>	<b>0.0483</b>	<b>4.1826</b>	<b>2.2000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0233</b>	<b>0.0233</b>	<b>0.0000</b>	<b>6.8562</b>	<b>6.8562</b>	<b>6.5300e-003</b>	<b>0.0000</b>	<b>7.0194</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	64.5813	0.0350	0.0210	71.7036
Unmitigated	64.5813	0.0350	0.0210	71.7036

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.43231	4.1538	2.0000e-004	4.0000e-005	4.1715
Retirement Community	13.6823 / 8.62583	31.1788	0.0180	0.0108	34.8446
Single Family Housing	12.8353 / 8.09185	29.2487	0.0168	0.0101	32.6875
<b>Total</b>		<b>64.5813</b>	<b>0.0350</b>	<b>0.0210</b>	<b>71.7036</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.43231	4.1538	2.0000e-004	4.0000e-005	4.1715
Retirement Community	13.6823 / 8.62583	31.1788	0.0180	0.0108	34.8446
Single Family Housing	12.8353 / 8.09185	29.2487	0.0168	0.0101	32.6875
<b>Total</b>		<b>64.5813</b>	<b>0.0350</b>	<b>0.0210</b>	<b>71.7036</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	60.5238	3.5769	0.0000	149.9451
Unmitigated	60.5238	3.5769	0.0000	149.9451

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
Retirement Community	96.6	19.6089	1.1589	0.0000	48.5803
Single Family Housing	201.24	40.8499	2.4142	0.0000	101.2039
<b>Total</b>		<b>60.5238</b>	<b>3.5769</b>	<b>0.0000</b>	<b>149.9451</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1609
Retirement Community	96.6	19.6089	1.1589	0.0000	48.5803
Single Family Housing	201.24	40.8499	2.4142	0.0000	101.2039
<b>Total</b>		<b>60.5238</b>	<b>3.5769</b>	<b>0.0000</b>	<b>149.9451</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	528.6770	0.0000	0.0000	528.6770

### 11.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 284.8	- 1,057.2430	0.0000	0.0000	- 1,057.2430
<b>Total</b>		<b>- 1,057.2430</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- 1,057.2430</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Annual

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Construction Only - Phase 2)**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	197.00	Dwelling Unit	20.87	354,600.00	559
Retirement Community	210.00	Dwelling Unit	25.97	210,000.00	437
City Park	0.50	Acre	1.40	21,780.00	0
City Park	1.02	Acre	1.23	44,576.40	0
City Park	2.20	Acre	2.20	95,832.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

Project Characteristics - Estimated construction state date of April 2022 for Phase 2 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 2

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - D

Trips and VMT - Default values.

Grading - No grading during Phase 2. Grading for phase 2 occurred under Phase 1.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	609.00
tblConstructionPhase	NumDays	1,110.00	609.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	PhaseEndDate	8/26/2026	11/28/2025
tblConstructionPhase	PhaseEndDate	1/28/2026	7/31/2025
tblConstructionPhase	PhaseEndDate	5/13/2026	12/30/2022
tblConstructionPhase	PhaseStartDate	5/14/2026	8/1/2023
tblConstructionPhase	PhaseStartDate	10/28/2021	4/1/2023
tblConstructionPhase	PhaseStartDate	1/29/2026	10/1/2022
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	63.96	20.87
tblLandUse	LotAcreage	42.00	25.97
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	526.00	559.00
tblLandUse	Population	561.00	437.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7923	15.6581	16.9971	0.0286	0.3270	0.8102	1.1372	0.0837	0.7622	0.8460	0.0000	2,724.3016	2,724.3016	0.7140	0.0000	2,739.7056
2023	10.4578	21.9358	28.3472	0.0715	3.0684	0.7955	3.8639	0.8234	0.7525	1.5759	0.0000	7,092.4544	7,092.4544	0.7691	0.0000	7,111.6826
2024	10.2640	20.7489	27.5348	0.0705	3.0683	0.6984	3.7667	0.8234	0.6604	1.4837	0.0000	6,986.1945	6,986.1945	0.7580	0.0000	7,005.1439
2025	10.0791	19.5521	26.7856	0.0694	3.0683	0.6026	3.6708	0.8233	0.5697	1.3930	0.0000	6,881.5335	6,881.5335	0.7483	0.0000	6,900.2396
<b>Maximum</b>	<b>10.4578</b>	<b>21.9358</b>	<b>28.3472</b>	<b>0.0715</b>	<b>3.0684</b>	<b>0.8102</b>	<b>3.8639</b>	<b>0.8234</b>	<b>0.7622</b>	<b>1.5759</b>	<b>0.0000</b>	<b>7,092.4544</b>	<b>7,092.4544</b>	<b>0.7691</b>	<b>0.0000</b>	<b>7,111.6826</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Energy	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
Mobile	2.6270	10.3963	27.1001	0.1212	13.6743	0.0575	13.7318	3.6508	0.0534	3.7042		12,354.9060	12,354.9060	0.4232		12,365.4853
<b>Total</b>	<b>18.0467</b>	<b>12.7089</b>	<b>61.3802</b>	<b>0.1353</b>	<b>13.6743</b>	<b>0.3995</b>	<b>14.0737</b>	<b>3.6508</b>	<b>0.3954</b>	<b>4.0462</b>	<b>0.0000</b>	<b>14,874.7278</b>	<b>14,874.7278</b>	<b>0.5279</b>	<b>0.0451</b>	<b>14,901.3608</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Energy	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
Mobile	2.6270	10.3963	27.1001	0.1212	13.6743	0.0575	13.7318	3.6508	0.0534	3.7042		12,354.9060	12,354.9060	0.4232		12,365.4853
<b>Total</b>	<b>18.0467</b>	<b>12.7089</b>	<b>61.3802</b>	<b>0.1353</b>	<b>13.6743</b>	<b>0.3995</b>	<b>14.0737</b>	<b>3.6508</b>	<b>0.3954</b>	<b>4.0462</b>	<b>0.0000</b>	<b>14,874.7278</b>	<b>14,874.7278</b>	<b>0.5279</b>	<b>0.0451</b>	<b>14,901.3608</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	8/1/2023	11/28/2025	5	609	
2	Building Construction	Building Construction	4/1/2023	7/31/2025	5	609	
3	Improvements for Phase 2	Trenching	4/1/2022	9/30/2022	5	131	
4	Paving	Paving	10/1/2022	12/30/2022	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,143,315; Residential Outdoor: 381,105; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Improvements for Phase 2	Cranes	1	7.00	231	0.29
Improvements for Phase 2	Forklifts	3	8.00	89	0.20
Improvements for Phase 2	Generator Sets	1	8.00	84	0.74
Improvements for Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Improvements for Phase 2	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Improvements for Phase 2	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	70.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Improvements for Phase 2	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.5096</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2028	0.0963	1.4708	4.1400e-003	0.4412	2.8300e-003	0.4440	0.1170	2.6100e-003	0.1196		412.5008	412.5008	9.5300e-003		412.7391
<b>Total</b>	<b>0.2028</b>	<b>0.0963</b>	<b>1.4708</b>	<b>4.1400e-003</b>	<b>0.4412</b>	<b>2.8300e-003</b>	<b>0.4440</b>	<b>0.1170</b>	<b>2.6100e-003</b>	<b>0.1196</b>		<b>412.5008</b>	<b>412.5008</b>	<b>9.5300e-003</b>		<b>412.7391</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.5096</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2028	0.0963	1.4708	4.1400e-003	0.4067	2.8300e-003	0.4095	0.1086	2.6100e-003	0.1112		412.5008	412.5008	9.5300e-003		412.7391
<b>Total</b>	<b>0.2028</b>	<b>0.0963</b>	<b>1.4708</b>	<b>4.1400e-003</b>	<b>0.4067</b>	<b>2.8300e-003</b>	<b>0.4095</b>	<b>0.1086</b>	<b>2.6100e-003</b>	<b>0.1112</b>		<b>412.5008</b>	<b>412.5008</b>	<b>9.5300e-003</b>		<b>412.7391</b>

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>7.4987</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1904	0.0871	1.3644	3.9800e-003	0.4412	2.7700e-003	0.4440	0.1170	2.5500e-003	0.1196		396.4445	396.4445	8.6000e-003		396.6595
<b>Total</b>	<b>0.1904</b>	<b>0.0871</b>	<b>1.3644</b>	<b>3.9800e-003</b>	<b>0.4412</b>	<b>2.7700e-003</b>	<b>0.4440</b>	<b>0.1170</b>	<b>2.5500e-003</b>	<b>0.1196</b>		<b>396.4445</b>	<b>396.4445</b>	<b>8.6000e-003</b>		<b>396.6595</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>7.4987</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1904	0.0871	1.3644	3.9800e-003	0.4067	2.7700e-003	0.4095	0.1086	2.5500e-003	0.1111		396.4445	396.4445	8.6000e-003		396.6595
<b>Total</b>	<b>0.1904</b>	<b>0.0871</b>	<b>1.3644</b>	<b>3.9800e-003</b>	<b>0.4067</b>	<b>2.7700e-003</b>	<b>0.4095</b>	<b>0.1086</b>	<b>2.5500e-003</b>	<b>0.1111</b>		<b>396.4445</b>	<b>396.4445</b>	<b>8.6000e-003</b>		<b>396.6595</b>

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>7.4888</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1797	0.0791	1.2655	3.8200e-003	0.4412	2.7200e-003	0.4439	0.1170	2.5000e-003	0.1195		380.5514	380.5514	7.8000e-003		380.7463
<b>Total</b>	<b>0.1797</b>	<b>0.0791</b>	<b>1.2655</b>	<b>3.8200e-003</b>	<b>0.4412</b>	<b>2.7200e-003</b>	<b>0.4439</b>	<b>0.1170</b>	<b>2.5000e-003</b>	<b>0.1195</b>		<b>380.5514</b>	<b>380.5514</b>	<b>7.8000e-003</b>		<b>380.7463</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>7.4888</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.2 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1797	0.0791	1.2655	3.8200e-003	0.4067	2.7200e-003	0.4094	0.1086	2.5000e-003	0.1111		380.5514	380.5514	7.8000e-003		380.7463
<b>Total</b>	<b>0.1797</b>	<b>0.0791</b>	<b>1.2655</b>	<b>3.8200e-003</b>	<b>0.4067</b>	<b>2.7200e-003</b>	<b>0.4094</b>	<b>0.1086</b>	<b>2.5000e-003</b>	<b>0.1111</b>		<b>380.5514</b>	<b>380.5514</b>	<b>7.8000e-003</b>		<b>380.7463</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1586	5.6699	1.4674	0.0168	0.4211	7.9700e-003	0.4291	0.1212	7.6200e-003	0.1288		1,780.7918	1,780.7918	0.0873		1,782.9732
Worker	1.0140	0.4817	7.3539	0.0207	2.2060	0.0142	2.2202	0.5852	0.0130	0.5982		2,062.5038	2,062.5038	0.0477		2,063.6953
<b>Total</b>	<b>1.1727</b>	<b>6.1516</b>	<b>8.8213</b>	<b>0.0375</b>	<b>2.6271</b>	<b>0.0221</b>	<b>2.6493</b>	<b>0.7063</b>	<b>0.0207</b>	<b>0.7270</b>		<b>3,843.2956</b>	<b>3,843.2956</b>	<b>0.1349</b>		<b>3,846.6685</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1586	5.6699	1.4674	0.0168	0.3940	7.9700e-003	0.4020	0.1145	7.6200e-003	0.1221		1,780.7918	1,780.7918	0.0873		1,782.9732
Worker	1.0140	0.4817	7.3539	0.0207	2.0335	0.0142	2.0476	0.5428	0.0130	0.5559		2,062.5038	2,062.5038	0.0477		2,063.6953
<b>Total</b>	<b>1.1727</b>	<b>6.1516</b>	<b>8.8213</b>	<b>0.0375</b>	<b>2.4275</b>	<b>0.0221</b>	<b>2.4497</b>	<b>0.6573</b>	<b>0.0207</b>	<b>0.6780</b>		<b>3,843.2956</b>	<b>3,843.2956</b>	<b>0.1349</b>		<b>3,846.6685</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1511	5.5637	1.3715	0.0167	0.4211	7.5800e-003	0.4287	0.1212	7.2500e-003	0.1284		1,770.3805	1,770.3805	0.0862		1,772.5351
Worker	0.9522	0.4355	6.8220	0.0199	2.2060	0.0138	2.2199	0.5852	0.0127	0.5979		1,982.2226	1,982.2226	0.0430		1,983.2974
<b>Total</b>	<b>1.1034</b>	<b>5.9992</b>	<b>8.1935</b>	<b>0.0366</b>	<b>2.6271</b>	<b>0.0214</b>	<b>2.6485</b>	<b>0.7063</b>	<b>0.0200</b>	<b>0.7263</b>		<b>3,752.6030</b>	<b>3,752.6030</b>	<b>0.1292</b>		<b>3,755.8325</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1511	5.5637	1.3715	0.0167	0.3940	7.5800e-003	0.4016	0.1145	7.2500e-003	0.1218		1,770.3805	1,770.3805	0.0862		1,772.5351
Worker	0.9522	0.4355	6.8220	0.0199	2.0335	0.0138	2.0473	0.5428	0.0127	0.5556		1,982.2226	1,982.2226	0.0430		1,983.2974
<b>Total</b>	<b>1.1034</b>	<b>5.9992</b>	<b>8.1935</b>	<b>0.0366</b>	<b>2.4275</b>	<b>0.0214</b>	<b>2.4489</b>	<b>0.6573</b>	<b>0.0200</b>	<b>0.6773</b>		<b>3,752.6030</b>	<b>3,752.6030</b>	<b>0.1292</b>		<b>3,755.8325</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1450	5.4622	1.2987	0.0166	0.4210	7.2000e-003	0.4282	0.1211	6.8900e-003	0.1280		1,760.3026	1,760.3026	0.0852		1,762.4318
Worker	0.8983	0.3956	6.3276	0.0191	2.2060	0.0136	2.2196	0.5852	0.0125	0.5977		1,902.7571	1,902.7571	0.0390		1,903.7316
<b>Total</b>	<b>1.0433</b>	<b>5.8578</b>	<b>7.6263</b>	<b>0.0357</b>	<b>2.6271</b>	<b>0.0208</b>	<b>2.6479</b>	<b>0.7063</b>	<b>0.0194</b>	<b>0.7257</b>		<b>3,663.0597</b>	<b>3,663.0597</b>	<b>0.1242</b>		<b>3,666.1634</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.3 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1450	5.4622	1.2987	0.0166	0.3940	7.2000e-003	0.4012	0.1145	6.8900e-003	0.1214		1,760.3026	1,760.3026	0.0852		1,762.4318
Worker	0.8983	0.3956	6.3276	0.0191	2.0335	0.0136	2.0471	0.5428	0.0125	0.5553		1,902.7571	1,902.7571	0.0390		1,903.7316
<b>Total</b>	<b>1.0433</b>	<b>5.8578</b>	<b>7.6263</b>	<b>0.0357</b>	<b>2.4275</b>	<b>0.0208</b>	<b>2.4482</b>	<b>0.6573</b>	<b>0.0194</b>	<b>0.6767</b>		<b>3,663.0597</b>	<b>3,663.0597</b>	<b>0.1242</b>		<b>3,666.1634</b>

**3.4 Improvements for Phase 2 - 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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.4 Improvements for Phase 2 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0860	0.0424	0.6337	1.7100e-003	0.3270	1.1500e-003	0.3282	0.0837	1.0600e-003	0.0848		169.9680	169.9680	4.2200e-003		170.0734
<b>Total</b>	<b>0.0860</b>	<b>0.0424</b>	<b>0.6337</b>	<b>1.7100e-003</b>	<b>0.3270</b>	<b>1.1500e-003</b>	<b>0.3282</b>	<b>0.0837</b>	<b>1.0600e-003</b>	<b>0.0848</b>		<b>169.9680</b>	<b>169.9680</b>	<b>4.2200e-003</b>		<b>170.0734</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.4 Improvements for Phase 2 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0860	0.0424	0.6337	1.7100e-003	0.2996	1.1500e-003	0.3008	0.0770	1.0600e-003	0.0781		169.9680	169.9680	4.2200e-003		170.0734
<b>Total</b>	<b>0.0860</b>	<b>0.0424</b>	<b>0.6337</b>	<b>1.7100e-003</b>	<b>0.2996</b>	<b>1.1500e-003</b>	<b>0.3008</b>	<b>0.0770</b>	<b>1.0600e-003</b>	<b>0.0781</b>		<b>169.9680</b>	<b>169.9680</b>	<b>4.2200e-003</b>		<b>170.0734</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b> <b>3</b>	<b>2,207.660</b> <b>3</b>	<b>0.7140</b>		<b>2,225.510</b> <b>4</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6270	10.3963	27.1001	0.1212	13.6743	0.0575	13.7318	3.6508	0.0534	3.7042		12,354.90 60	12,354.90 60	0.4232		12,365.48 53
Unmitigated	2.6270	10.3963	27.1001	0.1212	13.6743	0.0575	13.7318	3.6508	0.0534	3.7042		12,354.90 60	12,354.90 60	0.4232		12,365.48 53

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.95	11.38	8.37	6,449	6,449
City Park	1.93	23.28	17.13	13,200	13,200
City Park	4.16	50.05	36.83	28,377	28,377
Retirement Community	504.00	426.30	409.50	1,230,193	1,230,193
Single Family Housing	1,875.44	1,952.27	1698.14	4,775,752	4,775,752
<b>Total</b>	<b>2,386.48</b>	<b>2,463.28</b>	<b>2,169.97</b>	<b>6,053,972</b>	<b>6,053,972</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
NaturalGas Unmitigated	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	6960.91	0.0751	0.6415	0.2730	4.0900e-003		0.0519	0.0519		0.0519	0.0519		818.9303	818.9303	0.0157	0.0150	823.7968
Single Family Housing	13943.7	0.1504	1.2850	0.5468	8.2000e-003		0.1039	0.1039		0.1039	0.1039		1,640.4300	1,640.4300	0.0314	0.0301	1,650.1782
<b>Total</b>		<b>0.2254</b>	<b>1.9265</b>	<b>0.8198</b>	<b>0.0123</b>		<b>0.1558</b>	<b>0.1558</b>		<b>0.1558</b>	<b>0.1558</b>		<b>2,459.3602</b>	<b>2,459.3602</b>	<b>0.0471</b>	<b>0.0451</b>	<b>2,473.9750</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	6.96091	0.0751	0.6415	0.2730	4.0900e-003		0.0519	0.0519		0.0519	0.0519		818.9303	818.9303	0.0157	0.0150	823.7968
Single Family Housing	13.9437	0.1504	1.2850	0.5468	8.2000e-003		0.1039	0.1039		0.1039	0.1039		1,640.4300	1,640.4300	0.0314	0.0301	1,650.1782
<b>Total</b>		<b>0.2254</b>	<b>1.9265</b>	<b>0.8198</b>	<b>0.0123</b>		<b>0.1558</b>	<b>0.1558</b>		<b>0.1558</b>	<b>0.1558</b>		<b>2,459.3602</b>	<b>2,459.3602</b>	<b>0.0471</b>	<b>0.0451</b>	<b>2,473.9750</b>

**6.0 Area Detail**

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**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	lb/day										lb/day					
Mitigated	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Unmitigated	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2402					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	1.0005	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862		60.4616	60.4616	0.0576		61.9005
<b>Total</b>	<b>15.1943</b>	<b>0.3860</b>	<b>33.4604</b>	<b>1.7700e-003</b>		<b>0.1862</b>	<b>0.1862</b>		<b>0.1862</b>	<b>0.1862</b>	<b>0.0000</b>	<b>60.4616</b>	<b>60.4616</b>	<b>0.0576</b>	<b>0.0000</b>	<b>61.9005</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2402					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	1.0005	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862		60.4616	60.4616	0.0576		61.9005
<b>Total</b>	<b>15.1943</b>	<b>0.3860</b>	<b>33.4604</b>	<b>1.7700e-003</b>		<b>0.1862</b>	<b>0.1862</b>		<b>0.1862</b>	<b>0.1862</b>	<b>0.0000</b>	<b>60.4616</b>	<b>60.4616</b>	<b>0.0576</b>	<b>0.0000</b>	<b>61.9005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Construction Only - Phase 2)**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	197.00	Dwelling Unit	20.87	354,600.00	559
Retirement Community	210.00	Dwelling Unit	25.97	210,000.00	437
City Park	0.50	Acre	1.40	21,780.00	0
City Park	1.02	Acre	1.23	44,576.40	0
City Park	2.20	Acre	2.20	95,832.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

Project Characteristics - Estimated construction state date of April 2022 for Phase 2 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 2

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - D

Trips and VMT - Default values.

Grading - No grading during Phase 2. Grading for phase 2 occurred under Phase 1.

Architectural Coating - Interior VOC limits reduced from 100 g/L to 50 g/L based on SMAQMD Rule 443 that provides a VOC limit for flat coatings of 50 g/L.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	609.00
tblConstructionPhase	NumDays	1,110.00	609.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	PhaseEndDate	8/26/2026	11/28/2025
tblConstructionPhase	PhaseEndDate	1/28/2026	7/31/2025
tblConstructionPhase	PhaseEndDate	5/13/2026	12/30/2022
tblConstructionPhase	PhaseStartDate	5/14/2026	8/1/2023
tblConstructionPhase	PhaseStartDate	10/28/2021	4/1/2023
tblConstructionPhase	PhaseStartDate	1/29/2026	10/1/2022
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	63.96	20.87
tblLandUse	LotAcreage	42.00	25.97
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	Population	526.00	559.00
tblLandUse	Population	561.00	437.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7856	15.6680	16.9016	0.0284	0.3270	0.8102	1.1372	0.0837	0.7622	0.8460	0.0000	2,703.6177	2,703.6177	0.7140	0.0000	2,719.0089
2023	10.3764	22.1280	27.2080	0.0681	3.0684	0.7962	3.8645	0.8234	0.7532	1.5765	0.0000	6,745.4260	6,745.4260	0.7690	0.0000	6,764.6509
2024	10.1906	20.9246	26.4563	0.0671	3.0683	0.6990	3.7673	0.8234	0.6610	1.4843	0.0000	6,651.4696	6,651.4696	0.7584	0.0000	6,670.4290
2025	10.0123	19.7138	25.7719	0.0662	3.0683	0.6031	3.6714	0.8233	0.5702	1.3935	0.0000	6,559.0034	6,559.0034	0.7491	0.0000	6,577.7307
<b>Maximum</b>	<b>10.3764</b>	<b>22.1280</b>	<b>27.2080</b>	<b>0.0681</b>	<b>3.0684</b>	<b>0.8102</b>	<b>3.8645</b>	<b>0.8234</b>	<b>0.7622</b>	<b>1.5765</b>	<b>0.0000</b>	<b>6,745.4260</b>	<b>6,745.4260</b>	<b>0.7690</b>	<b>0.0000</b>	<b>6,764.6509</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Energy	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
Mobile	1.9085	10.8153	24.4919	0.1100	13.6743	0.0577	13.7320	3.6508	0.0537	3.7045		11,227.9875	11,227.9875	0.4292		11,238.7186
<b>Total</b>	<b>17.3282</b>	<b>13.1278</b>	<b>58.7720</b>	<b>0.1241</b>	<b>13.6743</b>	<b>0.3997</b>	<b>14.0740</b>	<b>3.6508</b>	<b>0.3956</b>	<b>4.0465</b>	<b>0.0000</b>	<b>13,747.8094</b>	<b>13,747.8094</b>	<b>0.5339</b>	<b>0.0451</b>	<b>13,774.5941</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Energy	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
Mobile	1.9085	10.8153	24.4919	0.1100	13.6743	0.0577	13.7320	3.6508	0.0537	3.7045		11,227.9875	11,227.9875	0.4292		11,238.7186
<b>Total</b>	<b>17.3282</b>	<b>13.1278</b>	<b>58.7720</b>	<b>0.1241</b>	<b>13.6743</b>	<b>0.3997</b>	<b>14.0740</b>	<b>3.6508</b>	<b>0.3956</b>	<b>4.0465</b>	<b>0.0000</b>	<b>13,747.8094</b>	<b>13,747.8094</b>	<b>0.5339</b>	<b>0.0451</b>	<b>13,774.5941</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	8/1/2023	11/28/2025	5	609	
2	Building Construction	Building Construction	4/1/2023	7/31/2025	5	609	
3	Improvements for Phase 2	Trenching	4/1/2022	9/30/2022	5	131	
4	Paving	Paving	10/1/2022	12/30/2022	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,143,315; Residential Outdoor: 381,105; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Improvements for Phase 2	Cranes	1	7.00	231	0.29
Improvements for Phase 2	Forklifts	3	8.00	89	0.20
Improvements for Phase 2	Generator Sets	1	8.00	84	0.74
Improvements for Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Improvements for Phase 2	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Improvements for Phase 2	9	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	70.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Improvements for Phase 2	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.5096</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1876	0.1189	1.2434	3.6400e-003	0.4412	2.8300e-003	0.4440	0.1170	2.6100e-003	0.1196		362.3243	362.3243	8.3400e-003		362.5329
<b>Total</b>	<b>0.1876</b>	<b>0.1189</b>	<b>1.2434</b>	<b>3.6400e-003</b>	<b>0.4412</b>	<b>2.8300e-003</b>	<b>0.4440</b>	<b>0.1170</b>	<b>2.6100e-003</b>	<b>0.1196</b>		<b>362.3243</b>	<b>362.3243</b>	<b>8.3400e-003</b>		<b>362.5329</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>7.5096</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1876	0.1189	1.2434	3.6400e-003	0.4067	2.8300e-003	0.4095	0.1086	2.6100e-003	0.1112		362.3243	362.3243	8.3400e-003		362.5329
<b>Total</b>	<b>0.1876</b>	<b>0.1189</b>	<b>1.2434</b>	<b>3.6400e-003</b>	<b>0.4067</b>	<b>2.8300e-003</b>	<b>0.4095</b>	<b>0.1086</b>	<b>2.6100e-003</b>	<b>0.1112</b>		<b>362.3243</b>	<b>362.3243</b>	<b>8.3400e-003</b>		<b>362.5329</b>

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>7.4987</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1766	0.1074	1.1496	3.4900e-003	0.4412	2.7700e-003	0.4440	0.1170	2.5500e-003	0.1196		348.2453	348.2453	7.5100e-003		348.4331
<b>Total</b>	<b>0.1766</b>	<b>0.1074</b>	<b>1.1496</b>	<b>3.4900e-003</b>	<b>0.4412</b>	<b>2.7700e-003</b>	<b>0.4440</b>	<b>0.1170</b>	<b>2.5500e-003</b>	<b>0.1196</b>		<b>348.2453</b>	<b>348.2453</b>	<b>7.5100e-003</b>		<b>348.4331</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>7.4987</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1766	0.1074	1.1496	3.4900e-003	0.4067	2.7700e-003	0.4095	0.1086	2.5500e-003	0.1111		348.2453	348.2453	7.5100e-003		348.4331
<b>Total</b>	<b>0.1766</b>	<b>0.1074</b>	<b>1.1496</b>	<b>3.4900e-003</b>	<b>0.4067</b>	<b>2.7700e-003</b>	<b>0.4095</b>	<b>0.1086</b>	<b>2.5500e-003</b>	<b>0.1111</b>		<b>348.2453</b>	<b>348.2453</b>	<b>7.5100e-003</b>		<b>348.4331</b>

**3.2 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>7.4888</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1671	0.0975	1.0636	3.3500e-003	0.4412	2.7200e-003	0.4439	0.1170	2.5000e-003	0.1195		334.3083	334.3083	6.8000e-003		334.4782
<b>Total</b>	<b>0.1671</b>	<b>0.0975</b>	<b>1.0636</b>	<b>3.3500e-003</b>	<b>0.4412</b>	<b>2.7200e-003</b>	<b>0.4439</b>	<b>0.1170</b>	<b>2.5000e-003</b>	<b>0.1195</b>		<b>334.3083</b>	<b>334.3083</b>	<b>6.8000e-003</b>		<b>334.4782</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.3179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>7.4888</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.2 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1671	0.0975	1.0636	3.3500e-003	0.4067	2.7200e-003	0.4094	0.1086	2.5000e-003	0.1111		334.3083	334.3083	6.8000e-003		334.4782
<b>Total</b>	<b>0.1671</b>	<b>0.0975</b>	<b>1.0636</b>	<b>3.3500e-003</b>	<b>0.4067</b>	<b>2.7200e-003</b>	<b>0.4094</b>	<b>0.1086</b>	<b>2.5000e-003</b>	<b>0.1111</b>		<b>334.3083</b>	<b>334.3083</b>	<b>6.8000e-003</b>		<b>334.4782</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1686	5.7270	1.6923	0.0164	0.4211	8.6600e-003	0.4298	0.1212	8.2800e-003	0.1295		1,734.8221	1,734.8221	0.0942		1,737.1783
Worker	0.9379	0.5943	6.2172	0.0182	2.2060	0.0142	2.2202	0.5852	0.0130	0.5982		1,811.6216	1,811.6216	0.0417		1,812.6647
<b>Total</b>	<b>1.1065</b>	<b>6.3212</b>	<b>7.9095</b>	<b>0.0345</b>	<b>2.6271</b>	<b>0.0228</b>	<b>2.6500</b>	<b>0.7063</b>	<b>0.0213</b>	<b>0.7277</b>		<b>3,546.4437</b>	<b>3,546.4437</b>	<b>0.1360</b>		<b>3,549.8429</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1686	5.7270	1.6923	0.0164	0.3940	8.6600e-003	0.4027	0.1145	8.2800e-003	0.1228		1,734.8221	1,734.8221	0.0942		1,737.1783
Worker	0.9379	0.5943	6.2172	0.0182	2.0335	0.0142	2.0476	0.5428	0.0130	0.5559		1,811.6216	1,811.6216	0.0417		1,812.6647
<b>Total</b>	<b>1.1065</b>	<b>6.3212</b>	<b>7.9095</b>	<b>0.0345</b>	<b>2.4275</b>	<b>0.0228</b>	<b>2.4503</b>	<b>0.6573</b>	<b>0.0213</b>	<b>0.6787</b>		<b>3,546.4437</b>	<b>3,546.4437</b>	<b>0.1360</b>		<b>3,549.8429</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1605	5.6175	1.5815	0.0163	0.4211	8.2000e-003	0.4293	0.1212	7.8400e-003	0.1290		1,724.8511	1,724.8511	0.0931		1,727.1786
Worker	0.8832	0.5371	5.7482	0.0175	2.2060	0.0138	2.2199	0.5852	0.0127	0.5979		1,741.2262	1,741.2262	0.0376		1,742.1654
<b>Total</b>	<b>1.0437</b>	<b>6.1546</b>	<b>7.3297</b>	<b>0.0337</b>	<b>2.6271</b>	<b>0.0220</b>	<b>2.6491</b>	<b>0.7063</b>	<b>0.0206</b>	<b>0.7269</b>		<b>3,466.0774</b>	<b>3,466.0774</b>	<b>0.1307</b>		<b>3,469.3440</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1605	5.6175	1.5815	0.0163	0.3940	8.2000e-003	0.4022	0.1145	7.8400e-003	0.1224		1,724.8511	1,724.8511	0.0931		1,727.1786
Worker	0.8832	0.5371	5.7482	0.0175	2.0335	0.0138	2.0473	0.5428	0.0127	0.5556		1,741.2262	1,741.2262	0.0376		1,742.1654
<b>Total</b>	<b>1.0437</b>	<b>6.1546</b>	<b>7.3297</b>	<b>0.0337</b>	<b>2.4275</b>	<b>0.0220</b>	<b>2.4495</b>	<b>0.6573</b>	<b>0.0206</b>	<b>0.6779</b>		<b>3,466.0774</b>	<b>3,466.0774</b>	<b>0.1307</b>		<b>3,469.3440</b>

**3.3 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1539	5.5134	1.4967	0.0162	0.4210	7.7600e-003	0.4288	0.1211	7.4200e-003	0.1286		1,715.2315	1,715.2315	0.0920		1,717.5314
Worker	0.8352	0.4876	5.3178	0.0168	2.2060	0.0136	2.2196	0.5852	0.0125	0.5977		1,671.5413	1,671.5413	0.0340		1,672.3912
<b>Total</b>	<b>0.9891</b>	<b>6.0011</b>	<b>6.8145</b>	<b>0.0329</b>	<b>2.6271</b>	<b>0.0213</b>	<b>2.6484</b>	<b>0.7063</b>	<b>0.0199</b>	<b>0.7262</b>		<b>3,386.7727</b>	<b>3,386.7727</b>	<b>0.1260</b>		<b>3,389.9226</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.3 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1539	5.5134	1.4967	0.0162	0.3940	7.7600e-003	0.4017	0.1145	7.4200e-003	0.1219		1,715.2315	1,715.2315	0.0920		1,717.5314
Worker	0.8352	0.4876	5.3178	0.0168	2.0335	0.0136	2.0471	0.5428	0.0125	0.5553		1,671.5413	1,671.5413	0.0340		1,672.3912
<b>Total</b>	<b>0.9891</b>	<b>6.0011</b>	<b>6.8145</b>	<b>0.0329</b>	<b>2.4275</b>	<b>0.0213</b>	<b>2.4488</b>	<b>0.6573</b>	<b>0.0199</b>	<b>0.6772</b>		<b>3,386.7727</b>	<b>3,386.7727</b>	<b>0.1260</b>		<b>3,389.9226</b>

**3.4 Improvements for Phase 2 - 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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.4 Improvements for Phase 2 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0524	0.5382	1.5000e-003	0.3270	1.1500e-003	0.3282	0.0837	1.0600e-003	0.0848		149.2842	149.2842	3.7000e-003		149.3767
<b>Total</b>	<b>0.0794</b>	<b>0.0524</b>	<b>0.5382</b>	<b>1.5000e-003</b>	<b>0.3270</b>	<b>1.1500e-003</b>	<b>0.3282</b>	<b>0.0837</b>	<b>1.0600e-003</b>	<b>0.0848</b>		<b>149.2842</b>	<b>149.2842</b>	<b>3.7000e-003</b>		<b>149.3767</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

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**3.4 Improvements for Phase 2 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0524	0.5382	1.5000e-003	0.2996	1.1500e-003	0.3008	0.0770	1.0600e-003	0.0781		149.2842	149.2842	3.7000e-003		149.3767
<b>Total</b>	<b>0.0794</b>	<b>0.0524</b>	<b>0.5382</b>	<b>1.5000e-003</b>	<b>0.2996</b>	<b>1.1500e-003</b>	<b>0.3008</b>	<b>0.0770</b>	<b>1.0600e-003</b>	<b>0.0781</b>		<b>149.2842</b>	<b>149.2842</b>	<b>3.7000e-003</b>		<b>149.3767</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



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**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9085	10.8153	24.4919	0.1100	13.6743	0.0577	13.7320	3.6508	0.0537	3.7045		11,227.9875	11,227.9875	0.4292		11,238.7186
Unmitigated	1.9085	10.8153	24.4919	0.1100	13.6743	0.0577	13.7320	3.6508	0.0537	3.7045		11,227.9875	11,227.9875	0.4292		11,238.7186

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.95	11.38	8.37	6,449	6,449
City Park	1.93	23.28	17.13	13,200	13,200
City Park	4.16	50.05	36.83	28,377	28,377
Retirement Community	504.00	426.30	409.50	1,230,193	1,230,193
Single Family Housing	1,875.44	1,952.27	1698.14	4,775,752	4,775,752
<b>Total</b>	<b>2,386.48</b>	<b>2,463.28</b>	<b>2,169.97</b>	<b>6,053,972</b>	<b>6,053,972</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750
NaturalGas Unmitigated	0.2254	1.9265	0.8198	0.0123		0.1558	0.1558		0.1558	0.1558		2,459.3602	2,459.3602	0.0471	0.0451	2,473.9750

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	6960.91	0.0751	0.6415	0.2730	4.0900e-003		0.0519	0.0519		0.0519	0.0519		818.9303	818.9303	0.0157	0.0150	823.7968
Single Family Housing	13943.7	0.1504	1.2850	0.5468	8.2000e-003		0.1039	0.1039		0.1039	0.1039		1,640.4300	1,640.4300	0.0314	0.0301	1,650.1782
<b>Total</b>		<b>0.2254</b>	<b>1.9265</b>	<b>0.8198</b>	<b>0.0123</b>		<b>0.1558</b>	<b>0.1558</b>		<b>0.1558</b>	<b>0.1558</b>		<b>2,459.3602</b>	<b>2,459.3602</b>	<b>0.0471</b>	<b>0.0451</b>	<b>2,473.9750</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	6.96091	0.0751	0.6415	0.2730	4.0900e-003		0.0519	0.0519		0.0519	0.0519		818.9303	818.9303	0.0157	0.0150	823.7968
Single Family Housing	13.9437	0.1504	1.2850	0.5468	8.2000e-003		0.1039	0.1039		0.1039	0.1039		1,640.4300	1,640.4300	0.0314	0.0301	1,650.1782
<b>Total</b>		<b>0.2254</b>	<b>1.9265</b>	<b>0.8198</b>	<b>0.0123</b>		<b>0.1558</b>	<b>0.1558</b>		<b>0.1558</b>	<b>0.1558</b>		<b>2,459.3602</b>	<b>2,459.3602</b>	<b>0.0471</b>	<b>0.0451</b>	<b>2,473.9750</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005
Unmitigated	15.1943	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862	0.0000	60.4616	60.4616	0.0576	0.0000	61.9005

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	1.9536					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	12.2402					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	1.0005	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862		60.4616	60.4616	0.0576			61.9005
<b>Total</b>	<b>15.1943</b>	<b>0.3860</b>	<b>33.4604</b>	<b>1.7700e-003</b>		<b>0.1862</b>	<b>0.1862</b>		<b>0.1862</b>	<b>0.1862</b>	<b>0.0000</b>	<b>60.4616</b>	<b>60.4616</b>	<b>0.0576</b>	<b>0.0000</b>		<b>61.9005</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 2) - Sacramento County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2402					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	1.0005	0.3860	33.4604	1.7700e-003		0.1862	0.1862		0.1862	0.1862		60.4616	60.4616	0.0576		61.9005
<b>Total</b>	<b>15.1943</b>	<b>0.3860</b>	<b>33.4604</b>	<b>1.7700e-003</b>		<b>0.1862</b>	<b>0.1862</b>		<b>0.1862</b>	<b>0.1862</b>	<b>0.0000</b>	<b>60.4616</b>	<b>60.4616</b>	<b>0.0576</b>	<b>0.0000</b>	<b>61.9005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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



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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Construction Only - Phase 3)**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	268.00	Dwelling Unit	28.39	482,400.00	716
Retirement Community	295.00	Dwelling Unit	36.49	295,000.00	788
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	33
City Park	1.02	Acre	1.23	44,576.40	0
City Park	1.58	Acre	1.58	68,824.80	0
City Park	9.10	Acre	9.28	396,396.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Estimated construction state date of February 2025 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 3

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Annual

applicant)  
Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 104.38 acres graded (includes roadways). Assume 25,451 cy of material exported during this phase (total for all construction phases of 152,708 cy net export provided by applicant).

Architectural Coating -

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	43.00
tblConstructionPhase	NumDays	155.00	132.00
tblConstructionPhase	NumDays	110.00	65.00
tblConstructionPhase	NumDays	1,550.00	717.00
tblConstructionPhase	NumDays	110.00	718.00
tblConstructionPhase	NumDays	60.00	196.00
tblConstructionPhase	NumDays	110.00	86.00
tblConstructionPhase	NumDays	60.00	260.00
tblConstructionPhase	PhaseEndDate	4/25/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	11/28/2025	10/28/2025
tblConstructionPhase	PhaseEndDate	4/9/2032	12/31/2025
tblConstructionPhase	PhaseEndDate	11/7/2031	9/29/2028
tblConstructionPhase	PhaseEndDate	9/10/2032	12/29/2028
tblConstructionPhase	PhaseStartDate	4/26/2025	4/28/2025
tblConstructionPhase	PhaseStartDate	11/8/2031	10/2/2025
tblConstructionPhase	PhaseStartDate	11/29/2025	1/1/2026
tblConstructionPhase	PhaseStartDate	4/10/2032	4/1/2026
tblGrading	AcresOfGrading	330.00	104.38
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	87.01	28.39
tblLandUse	LotAcreage	59.00	36.49
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	Population	43.00	33.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00

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tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

## 2.0 Emissions Summary

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**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					
2025	0.2842	2.8508	2.6751	6.2900e-003	0.8756	0.1120	0.9875	0.4468	0.1030	0.5498	0.0000	557.2187	557.2187	0.1644	0.0000	561.3275
2026	1.8096	3.3190	4.0041	0.0128	0.7008	0.0795	0.7802	0.1889	0.0750	0.2639	0.0000	1,168.9395	1,168.9395	0.1018	0.0000	1,171.4853
2027	2.5339	6.0806	6.2745	0.0175	2.5129	0.2012	2.7141	1.1732	0.1871	1.3603	0.0000	1,581.9932	1,581.9932	0.2290	0.0000	1,587.7175
2028	2.3969	5.0565	4.9616	0.0139	2.3434	0.1725	2.5159	1.1249	0.1604	1.2853	0.0000	1,250.2872	1,250.2872	0.1885	0.0000	1,255.0004
2029	0.0816	0.8207	0.5903	1.2700e-003	0.5915	0.0353	0.6268	0.3239	0.0325	0.3564	0.0000	111.5191	111.5191	0.0352	0.0000	112.3996
<b>Maximum</b>	<b>2.5339</b>	<b>6.0806</b>	<b>6.2745</b>	<b>0.0175</b>	<b>2.5129</b>	<b>0.2012</b>	<b>2.7141</b>	<b>1.1732</b>	<b>0.1871</b>	<b>1.3603</b>	<b>0.0000</b>	<b>1,581.9932</b>	<b>1,581.9932</b>	<b>0.2290</b>	<b>0.0000</b>	<b>1,587.7175</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.2842	2.8508	2.6751	6.2900e-003	0.4090	0.1120	0.5210	0.2051	0.1030	0.3081	0.0000	557.2181	557.2181	0.1644	0.0000	561.3269
2026	1.8096	3.3190	4.0041	0.0128	0.6478	0.0795	0.7273	0.1759	0.0750	0.2509	0.0000	1,168.9391	1,168.9391	0.1018	0.0000	1,171.4849
2027	2.5339	6.0806	6.2745	0.0175	1.4830	0.2012	1.6842	0.6242	0.1871	0.8113	0.0000	1,581.9923	1,581.9923	0.2290	0.0000	1,587.7166
2028	2.3969	5.0565	4.9616	0.0139	1.3305	0.1725	1.5030	0.5816	0.1604	0.7419	0.0000	1,250.2865	1,250.2865	0.1885	0.0000	1,254.9997
2029	0.0816	0.8207	0.5903	1.2700e-003	0.2682	0.0353	0.3035	0.1463	0.0325	0.1788	0.0000	111.5189	111.5189	0.0352	0.0000	112.3995
<b>Maximum</b>	<b>2.5339</b>	<b>6.0806</b>	<b>6.2745</b>	<b>0.0175</b>	<b>1.4830</b>	<b>0.2012</b>	<b>1.6842</b>	<b>0.6242</b>	<b>0.1871</b>	<b>0.8113</b>	<b>0.0000</b>	<b>1,581.9923</b>	<b>1,581.9923</b>	<b>0.2290</b>	<b>0.0000</b>	<b>1,587.7166</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>41.08</b>	<b>0.00</b>	<b>37.85</b>	<b>46.80</b>	<b>0.00</b>	<b>39.96</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2025	4-30-2025	0.8253	0.8253
2	5-1-2025	7-31-2025	1.0164	1.0164
3	8-1-2025	10-31-2025	1.0857	1.0857
4	11-1-2025	1-31-2026	0.5144	0.5144
5	2-1-2026	4-30-2026	1.0449	1.0449
6	5-1-2026	7-31-2026	1.4181	1.4181

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7	8-1-2026	10-31-2026	1.4200	1.4200
8	11-1-2026	1-31-2027	1.7273	1.7273
9	2-1-2027	4-30-2027	2.2467	2.2467
10	5-1-2027	7-31-2027	2.3187	2.3187
11	8-1-2027	10-31-2027	2.1254	2.1254
12	11-1-2027	1-31-2028	1.7218	1.7218
13	2-1-2028	4-30-2028	1.6658	1.6658
14	5-1-2028	7-31-2028	2.3077	2.3077
15	8-1-2028	10-31-2028	2.0011	2.0011
16	11-1-2028	1-31-2029	1.2420	1.2420
17	2-1-2029	4-30-2029	0.5752	0.5752
		Highest	2.3187	2.3187



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**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	3.8083	0.0687	5.9502	3.2000e-004		0.0331	0.0331		0.0331	0.0331	0.0000	9.7539	9.7539	9.2900e-003	0.0000	9.9860
Energy	0.0574	0.4907	0.2088	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	1,562.4815	1,562.4815	0.0597	0.0205	1,570.0908
Mobile	0.4990	2.5903	5.8155	0.0274	3.2166	0.0140	3.2306	0.8612	0.0130	0.8742	0.0000	2,536.2114	2,536.2114	0.0925	0.0000	2,538.5245
Waste						0.0000	0.0000		0.0000	0.0000	81.5679	0.0000	81.5679	4.8205	0.0000	202.0809
Water						0.0000	0.0000		0.0000	0.0000	13.3469	85.6819	99.0287	0.0502	0.0299	109.1914
<b>Total</b>	<b>4.3647</b>	<b>3.1496</b>	<b>11.9745</b>	<b>0.0309</b>	<b>3.2166</b>	<b>0.0868</b>	<b>3.3033</b>	<b>0.8612</b>	<b>0.0858</b>	<b>0.9470</b>	<b>94.9147</b>	<b>4,194.1286</b>	<b>4,289.0433</b>	<b>5.0322</b>	<b>0.0504</b>	<b>4,429.8737</b>



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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,057.243 0
<b>Total</b>	<b>528.6770</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2025	4/2/2025	5	43	
2	Grading	Grading	4/28/2025	10/28/2025	5	132	
3	Building Construction	Building Construction	1/1/2026	9/29/2028	5	717	
4	Paving	Paving	10/2/2025	12/31/2025	5	65	
5	Architectural Coating	Architectural Coating	4/1/2026	12/29/2028	5	718	
6	Site Preparation and Grading for Rancho Cordova Widening	Site Preparation	1/1/2027	10/1/2027	5	196	
7	Paving for Rancho Cordova Widening	Paving	10/2/2027	1/31/2028	5	86	
8	Site Preparation for Park - Lot D	Site Preparation	4/1/2028	3/30/2029	5	260	

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

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**Acres of Grading (Grading Phase): 104.38**

**Acres of Paving: 0**

**Residential Indoor: 1,606,635; Residential Outdoor: 535,545; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	3,181.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	535.00	145.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	107.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving for Rancho Cordova Widening	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading for Rancho C	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Park - Lot D	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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**3.2 Site Preparation - 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					
Fugitive Dust					0.3911	0.0000	0.3911	0.2139	0.0000	0.2139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5425	0.3851	8.2000e-004		0.0234	0.0234		0.0215	0.0215	0.0000	71.9540	71.9540	0.0233	0.0000	72.5358
<b>Total</b>	<b>0.0532</b>	<b>0.5425</b>	<b>0.3851</b>	<b>8.2000e-004</b>	<b>0.3911</b>	<b>0.0234</b>	<b>0.4144</b>	<b>0.2139</b>	<b>0.0215</b>	<b>0.2354</b>	<b>0.0000</b>	<b>71.9540</b>	<b>71.9540</b>	<b>0.0233</b>	<b>0.0000</b>	<b>72.5358</b>

**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	3.9200e-003	0.1818	0.0381	5.0000e-004	9.4000e-003	2.6000e-004	9.6600e-003	2.5800e-003	2.5000e-004	2.8300e-003	0.0000	48.6507	48.6507	3.4500e-003	0.0000	48.7369
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	1.0400e-003	5.8000e-004	7.0900e-003	2.0000e-005	2.8400e-003	2.0000e-005	2.8600e-003	7.6000e-004	2.0000e-005	7.7000e-004	0.0000	2.0828	2.0828	4.0000e-005	0.0000	2.0838
<b>Total</b>	<b>4.9600e-003</b>	<b>0.1824</b>	<b>0.0452</b>	<b>5.2000e-004</b>	<b>0.0122</b>	<b>2.8000e-004</b>	<b>0.0125</b>	<b>3.3400e-003</b>	<b>2.7000e-004</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>50.7334</b>	<b>50.7334</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>50.8207</b>

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**3.2 Site Preparation - 2025**

**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					0.1760	0.0000	0.1760	0.0963	0.0000	0.0963	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5425	0.3851	8.2000e-004		0.0234	0.0234		0.0215	0.0215	0.0000	71.9539	71.9539	0.0233	0.0000	72.5357
<b>Total</b>	<b>0.0532</b>	<b>0.5425</b>	<b>0.3851</b>	<b>8.2000e-004</b>	<b>0.1760</b>	<b>0.0234</b>	<b>0.1994</b>	<b>0.0963</b>	<b>0.0215</b>	<b>0.1178</b>	<b>0.0000</b>	<b>71.9539</b>	<b>71.9539</b>	<b>0.0233</b>	<b>0.0000</b>	<b>72.5357</b>

**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	3.9200e-003	0.1818	0.0381	5.0000e-004	8.7700e-003	2.6000e-004	9.0200e-003	2.4300e-003	2.5000e-004	2.6700e-003	0.0000	48.6507	48.6507	3.4500e-003	0.0000	48.7369
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	1.0400e-003	5.8000e-004	7.0900e-003	2.0000e-005	2.6200e-003	2.0000e-005	2.6400e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.0828	2.0828	4.0000e-005	0.0000	2.0838
<b>Total</b>	<b>4.9600e-003</b>	<b>0.1824</b>	<b>0.0452</b>	<b>5.2000e-004</b>	<b>0.0114</b>	<b>2.8000e-004</b>	<b>0.0117</b>	<b>3.1300e-003</b>	<b>2.7000e-004</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>50.7334</b>	<b>50.7334</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>50.8207</b>



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**3.3 Grading - 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					
Fugitive Dust					0.4528	0.0000	0.4528	0.2245	0.0000	0.2245	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1915	1.8442	1.7379	4.1000e-003		0.0746	0.0746		0.0687	0.0687	0.0000	359.7410	359.7410	0.1164	0.0000	362.6497
<b>Total</b>	<b>0.1915</b>	<b>1.8442</b>	<b>1.7379</b>	<b>4.1000e-003</b>	<b>0.4528</b>	<b>0.0746</b>	<b>0.5275</b>	<b>0.2245</b>	<b>0.0687</b>	<b>0.2931</b>	<b>0.0000</b>	<b>359.7410</b>	<b>359.7410</b>	<b>0.1164</b>	<b>0.0000</b>	<b>362.6497</b>

**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	3.5500e-003	1.9800e-003	0.0242	8.0000e-005	9.6900e-003	6.0000e-005	9.7600e-003	2.5800e-003	6.0000e-005	2.6400e-003	0.0000	7.1040	7.1040	1.4000e-004	0.0000	7.1076
<b>Total</b>	<b>3.5500e-003</b>	<b>1.9800e-003</b>	<b>0.0242</b>	<b>8.0000e-005</b>	<b>9.6900e-003</b>	<b>6.0000e-005</b>	<b>9.7600e-003</b>	<b>2.5800e-003</b>	<b>6.0000e-005</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>7.1040</b>	<b>7.1040</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>7.1076</b>

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**3.3 Grading - 2025**

**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					0.2038	0.0000	0.2038	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1915	1.8442	1.7379	4.1000e-003		0.0746	0.0746		0.0687	0.0687	0.0000	359.7406	359.7406	0.1164	0.0000	362.6493
<b>Total</b>	<b>0.1915</b>	<b>1.8442</b>	<b>1.7379</b>	<b>4.1000e-003</b>	<b>0.2038</b>	<b>0.0746</b>	<b>0.2784</b>	<b>0.1010</b>	<b>0.0687</b>	<b>0.1697</b>	<b>0.0000</b>	<b>359.7406</b>	<b>359.7406</b>	<b>0.1164</b>	<b>0.0000</b>	<b>362.6493</b>

**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	3.5500e-003	1.9800e-003	0.0242	8.0000e-005	8.9400e-003	6.0000e-005	9.0000e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	7.1040	7.1040	1.4000e-004	0.0000	7.1076
<b>Total</b>	<b>3.5500e-003</b>	<b>1.9800e-003</b>	<b>0.0242</b>	<b>8.0000e-005</b>	<b>8.9400e-003</b>	<b>6.0000e-005</b>	<b>9.0000e-003</b>	<b>2.3900e-003</b>	<b>6.0000e-005</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>7.1040</b>	<b>7.1040</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>7.1076</b>

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**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

**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	0.0384	1.4686	0.3565	4.4100e-003	0.1106	1.9000e-003	0.1125	0.0320	1.8200e-003	0.0338	0.0000	424.7338	424.7338	0.0214	0.0000	425.2679
Worker	0.1780	0.0958	1.1906	4.0000e-003	0.5128	3.1700e-003	0.5159	0.1364	2.9200e-003	0.1393	0.0000	361.7867	361.7867	6.9100e-003	0.0000	361.9594
<b>Total</b>	<b>0.2164</b>	<b>1.5644</b>	<b>1.5471</b>	<b>8.4100e-003</b>	<b>0.6234</b>	<b>5.0700e-003</b>	<b>0.6284</b>	<b>0.1683</b>	<b>4.7400e-003</b>	<b>0.1731</b>	<b>0.0000</b>	<b>786.5205</b>	<b>786.5205</b>	<b>0.0283</b>	<b>0.0000</b>	<b>787.2273</b>

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**3.4 Building Construction - 2026**

**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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

**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	0.0384	1.4686	0.3565	4.4100e-003	0.1036	1.9000e-003	0.1055	0.0302	1.8200e-003	0.0320	0.0000	424.7338	424.7338	0.0214	0.0000	425.2679
Worker	0.1780	0.0958	1.1906	4.0000e-003	0.4729	3.1700e-003	0.4761	0.1266	2.9200e-003	0.1295	0.0000	361.7867	361.7867	6.9100e-003	0.0000	361.9594
<b>Total</b>	<b>0.2164</b>	<b>1.5644</b>	<b>1.5471</b>	<b>8.4100e-003</b>	<b>0.5764</b>	<b>5.0700e-003</b>	<b>0.5815</b>	<b>0.1568</b>	<b>4.7400e-003</b>	<b>0.1616</b>	<b>0.0000</b>	<b>786.5205</b>	<b>786.5205</b>	<b>0.0283</b>	<b>0.0000</b>	<b>787.2273</b>

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**3.4 Building Construction - 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

**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	0.0371	1.4439	0.3416	4.3800e-003	0.1106	1.8100e-003	0.1124	0.0320	1.7300e-003	0.0337	0.0000	422.5680	422.5680	0.0211	0.0000	423.0964
Worker	0.1684	0.0877	1.1107	3.8600e-003	0.5128	3.0200e-003	0.5158	0.1364	2.7800e-003	0.1392	0.0000	349.2894	349.2894	6.2900e-003	0.0000	349.4468
<b>Total</b>	<b>0.2055</b>	<b>1.5316</b>	<b>1.4523</b>	<b>8.2400e-003</b>	<b>0.6233</b>	<b>4.8300e-003</b>	<b>0.6282</b>	<b>0.1683</b>	<b>4.5100e-003</b>	<b>0.1728</b>	<b>0.0000</b>	<b>771.8574</b>	<b>771.8574</b>	<b>0.0274</b>	<b>0.0000</b>	<b>772.5432</b>

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**3.4 Building Construction - 2027**

**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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

**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	0.0371	1.4439	0.3416	4.3800e-003	0.1035	1.8100e-003	0.1054	0.0302	1.7300e-003	0.0320	0.0000	422.5680	422.5680	0.0211	0.0000	423.0964
Worker	0.1684	0.0877	1.1107	3.8600e-003	0.4729	3.0200e-003	0.4759	0.1266	2.7800e-003	0.1294	0.0000	349.2894	349.2894	6.2900e-003	0.0000	349.4468
<b>Total</b>	<b>0.2055</b>	<b>1.5316</b>	<b>1.4523</b>	<b>8.2400e-003</b>	<b>0.5764</b>	<b>4.8300e-003</b>	<b>0.5813</b>	<b>0.1568</b>	<b>4.5100e-003</b>	<b>0.1613</b>	<b>0.0000</b>	<b>771.8574</b>	<b>771.8574</b>	<b>0.0274</b>	<b>0.0000</b>	<b>772.5432</b>

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**3.4 Building Construction - 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	0.1333	1.2158	1.5683	2.6300e-003		0.0514	0.0514		0.0484	0.0484	0.0000	226.1215	226.1215	0.0532	0.0000	227.4503
<b>Total</b>	<b>0.1333</b>	<b>1.2158</b>	<b>1.5683</b>	<b>2.6300e-003</b>		<b>0.0514</b>	<b>0.0514</b>		<b>0.0484</b>	<b>0.0484</b>	<b>0.0000</b>	<b>226.1215</b>	<b>226.1215</b>	<b>0.0532</b>	<b>0.0000</b>	<b>227.4503</b>

**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	0.0268	1.0631	0.2459	3.2600e-003	0.0826	1.2900e-003	0.0839	0.0239	1.2300e-003	0.0251	0.0000	314.3313	314.3313	0.0156	0.0000	314.7218
Worker	0.1184	0.0601	0.7771	2.7900e-003	0.3831	2.1000e-003	0.3852	0.1019	1.9400e-003	0.1038	0.0000	252.6747	252.6747	4.3100e-003	0.0000	252.7824
<b>Total</b>	<b>0.1453</b>	<b>1.1232</b>	<b>1.0230</b>	<b>6.0500e-003</b>	<b>0.4657</b>	<b>3.3900e-003</b>	<b>0.4691</b>	<b>0.1258</b>	<b>3.1700e-003</b>	<b>0.1289</b>	<b>0.0000</b>	<b>567.0060</b>	<b>567.0060</b>	<b>0.0199</b>	<b>0.0000</b>	<b>567.5042</b>

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**3.4 Building Construction - 2028**

**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	0.1333	1.2158	1.5683	2.6300e-003		0.0514	0.0514		0.0484	0.0484	0.0000	226.1212	226.1212	0.0532	0.0000	227.4501
<b>Total</b>	<b>0.1333</b>	<b>1.2158</b>	<b>1.5683</b>	<b>2.6300e-003</b>		<b>0.0514</b>	<b>0.0514</b>		<b>0.0484</b>	<b>0.0484</b>	<b>0.0000</b>	<b>226.1212</b>	<b>226.1212</b>	<b>0.0532</b>	<b>0.0000</b>	<b>227.4501</b>

**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	0.0268	1.0631	0.2459	3.2600e-003	0.0774	1.2900e-003	0.0786	0.0226	1.2300e-003	0.0238	0.0000	314.3313	314.3313	0.0156	0.0000	314.7218
Worker	0.1184	0.0601	0.7771	2.7900e-003	0.3533	2.1000e-003	0.3554	0.0946	1.9400e-003	0.0965	0.0000	252.6747	252.6747	4.3100e-003	0.0000	252.7824
<b>Total</b>	<b>0.1453</b>	<b>1.1232</b>	<b>1.0230</b>	<b>6.0500e-003</b>	<b>0.4307</b>	<b>3.3900e-003</b>	<b>0.4340</b>	<b>0.1172</b>	<b>3.1700e-003</b>	<b>0.1203</b>	<b>0.0000</b>	<b>567.0060</b>	<b>567.0060</b>	<b>0.0199</b>	<b>0.0000</b>	<b>567.5042</b>



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**3.5 Paving - 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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0626	65.0626	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0297</b>	<b>0.2789</b>	<b>0.4738</b>	<b>7.4000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>65.0626</b>	<b>65.0626</b>	<b>0.0210</b>	<b>0.0000</b>	<b>65.5886</b>

**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	1.3100e-003	7.3000e-004	8.9300e-003	3.0000e-005	9.7700e-003	2.0000e-005	9.7900e-003	2.4700e-003	2.0000e-005	2.4900e-003	0.0000	2.6237	2.6237	5.0000e-005	0.0000	2.6250
<b>Total</b>	<b>1.3100e-003</b>	<b>7.3000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>9.7700e-003</b>	<b>2.0000e-005</b>	<b>9.7900e-003</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4900e-003</b>	<b>0.0000</b>	<b>2.6237</b>	<b>2.6237</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.6250</b>

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**3.5 Paving - 2025**

**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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0625	65.0625	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0297</b>	<b>0.2789</b>	<b>0.4738</b>	<b>7.4000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>65.0625</b>	<b>65.0625</b>	<b>0.0210</b>	<b>0.0000</b>	<b>65.5886</b>

**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	1.3100e-003	7.3000e-004	8.9300e-003	3.0000e-005	8.9300e-003	2.0000e-005	8.9600e-003	2.2700e-003	2.0000e-005	2.2900e-003	0.0000	2.6237	2.6237	5.0000e-005	0.0000	2.6250
<b>Total</b>	<b>1.3100e-003</b>	<b>7.3000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>8.9300e-003</b>	<b>2.0000e-005</b>	<b>8.9600e-003</b>	<b>2.2700e-003</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>2.6237</b>	<b>2.6237</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.6250</b>

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**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	1.3710					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.1128	0.1782	2.9000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	25.1496	25.1496	1.3700e-003	0.0000	25.1839
<b>Total</b>	<b>1.3879</b>	<b>0.1128</b>	<b>0.1782</b>	<b>2.9000e-004</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>	<b>0.0000</b>	<b>25.1496</b>	<b>25.1496</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>25.1839</b>

**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	0.0269	0.0145	0.1797	6.0000e-004	0.0774	4.8000e-004	0.0779	0.0206	4.4000e-004	0.0210	0.0000	54.6146	54.6146	1.0400e-003	0.0000	54.6406
<b>Total</b>	<b>0.0269</b>	<b>0.0145</b>	<b>0.1797</b>	<b>6.0000e-004</b>	<b>0.0774</b>	<b>4.8000e-004</b>	<b>0.0779</b>	<b>0.0206</b>	<b>4.4000e-004</b>	<b>0.0210</b>	<b>0.0000</b>	<b>54.6146</b>	<b>54.6146</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>54.6406</b>

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**3.6 Architectural Coating - 2026**

**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	1.3710					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.1128	0.1782	2.9000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	25.1495	25.1495	1.3700e-003	0.0000	25.1838
<b>Total</b>	<b>1.3879</b>	<b>0.1128</b>	<b>0.1782</b>	<b>2.9000e-004</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>	<b>0.0000</b>	<b>25.1495</b>	<b>25.1495</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>25.1838</b>

**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	0.0269	0.0145	0.1797	6.0000e-004	0.0714	4.8000e-004	0.0719	0.0191	4.4000e-004	0.0196	0.0000	54.6146	54.6146	1.0400e-003	0.0000	54.6406
<b>Total</b>	<b>0.0269</b>	<b>0.0145</b>	<b>0.1797</b>	<b>6.0000e-004</b>	<b>0.0714</b>	<b>4.8000e-004</b>	<b>0.0719</b>	<b>0.0191</b>	<b>4.4000e-004</b>	<b>0.0196</b>	<b>0.0000</b>	<b>54.6146</b>	<b>54.6146</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>54.6406</b>

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**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	1.8164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>1.8387</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

**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	0.0337	0.0175	0.2221	7.7000e-004	0.1026	6.0000e-004	0.1032	0.0273	5.6000e-004	0.0278	0.0000	69.8579	69.8579	1.2600e-003	0.0000	69.8894
<b>Total</b>	<b>0.0337</b>	<b>0.0175</b>	<b>0.2221</b>	<b>7.7000e-004</b>	<b>0.1026</b>	<b>6.0000e-004</b>	<b>0.1032</b>	<b>0.0273</b>	<b>5.6000e-004</b>	<b>0.0278</b>	<b>0.0000</b>	<b>69.8579</b>	<b>69.8579</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>69.8894</b>

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**3.6 Architectural Coating - 2027**

**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	1.8164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>1.8387</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

**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	0.0337	0.0175	0.2221	7.7000e-004	0.0946	6.0000e-004	0.0952	0.0253	5.6000e-004	0.0259	0.0000	69.8579	69.8579	1.2600e-003	0.0000	69.8894
<b>Total</b>	<b>0.0337</b>	<b>0.0175</b>	<b>0.2221</b>	<b>7.7000e-004</b>	<b>0.0946</b>	<b>6.0000e-004</b>	<b>0.0952</b>	<b>0.0253</b>	<b>5.6000e-004</b>	<b>0.0259</b>	<b>0.0000</b>	<b>69.8579</b>	<b>69.8579</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>69.8894</b>

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**3.6 Architectural Coating - 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					
Archit. Coating	1.8095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
<b>Total</b>	<b>1.8317</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2376</b>

**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	0.0316	0.0160	0.2072	7.4000e-004	0.1022	5.6000e-004	0.1027	0.0272	5.2000e-004	0.0277	0.0000	67.3799	67.3799	1.1500e-003	0.0000	67.4086
<b>Total</b>	<b>0.0316</b>	<b>0.0160</b>	<b>0.2072</b>	<b>7.4000e-004</b>	<b>0.1022</b>	<b>5.6000e-004</b>	<b>0.1027</b>	<b>0.0272</b>	<b>5.2000e-004</b>	<b>0.0277</b>	<b>0.0000</b>	<b>67.3799</b>	<b>67.3799</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>67.4086</b>

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**3.6 Architectural Coating - 2028**

**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	1.8095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
<b>Total</b>	<b>1.8317</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2375</b>

**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	0.0316	0.0160	0.2072	7.4000e-004	0.0942	5.6000e-004	0.0948	0.0252	5.2000e-004	0.0257	0.0000	67.3799	67.3799	1.1500e-003	0.0000	67.4086
<b>Total</b>	<b>0.0316</b>	<b>0.0160</b>	<b>0.2072</b>	<b>7.4000e-004</b>	<b>0.0942</b>	<b>5.6000e-004</b>	<b>0.0948</b>	<b>0.0252</b>	<b>5.2000e-004</b>	<b>0.0257</b>	<b>0.0000</b>	<b>67.3799</b>	<b>67.3799</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>67.4086</b>



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**3.7 Site Preparation and Grading for Rancho Cordova Widening - 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					1.7705	0.0000	1.7705	0.9732	0.0000	0.9732	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2423	2.4729	1.7554	3.7300e-003		0.1065	0.1065		0.0980	0.0980	0.0000	327.9765	327.9765	0.1061	0.0000	330.6283
<b>Total</b>	<b>0.2423</b>	<b>2.4729</b>	<b>1.7554</b>	<b>3.7300e-003</b>	<b>1.7705</b>	<b>0.1065</b>	<b>1.8770</b>	<b>0.9732</b>	<b>0.0980</b>	<b>1.0712</b>	<b>0.0000</b>	<b>327.9765</b>	<b>327.9765</b>	<b>0.1061</b>	<b>0.0000</b>	<b>330.6283</b>

**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	4.2600e-003	2.2200e-003	0.0281	1.0000e-004	0.0130	8.0000e-005	0.0130	3.4500e-003	7.0000e-005	3.5200e-003	0.0000	8.8251	8.8251	1.6000e-004	0.0000	8.8291
<b>Total</b>	<b>4.2600e-003</b>	<b>2.2200e-003</b>	<b>0.0281</b>	<b>1.0000e-004</b>	<b>0.0130</b>	<b>8.0000e-005</b>	<b>0.0130</b>	<b>3.4500e-003</b>	<b>7.0000e-005</b>	<b>3.5200e-003</b>	<b>0.0000</b>	<b>8.8251</b>	<b>8.8251</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>8.8291</b>

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**3.7 Site Preparation and Grading for Rancho Cordova Widening - 2027**

**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					0.7967	0.0000	0.7967	0.4379	0.0000	0.4379	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2423	2.4729	1.7554	3.7300e-003		0.1065	0.1065		0.0980	0.0980	0.0000	327.9761	327.9761	0.1061	0.0000	330.6279
<b>Total</b>	<b>0.2423</b>	<b>2.4729</b>	<b>1.7554</b>	<b>3.7300e-003</b>	<b>0.7967</b>	<b>0.1065</b>	<b>0.9032</b>	<b>0.4379</b>	<b>0.0980</b>	<b>0.5359</b>	<b>0.0000</b>	<b>327.9761</b>	<b>327.9761</b>	<b>0.1061</b>	<b>0.0000</b>	<b>330.6279</b>

**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	4.2600e-003	2.2200e-003	0.0281	1.0000e-004	0.0120	8.0000e-005	0.0120	3.2000e-003	7.0000e-005	3.2700e-003	0.0000	8.8251	8.8251	1.6000e-004	0.0000	8.8291
<b>Total</b>	<b>4.2600e-003</b>	<b>2.2200e-003</b>	<b>0.0281</b>	<b>1.0000e-004</b>	<b>0.0120</b>	<b>8.0000e-005</b>	<b>0.0120</b>	<b>3.2000e-003</b>	<b>7.0000e-005</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>8.8251</b>	<b>8.8251</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>8.8291</b>

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**3.8 Paving for Rancho Cordova Widening - 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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0626	65.0626	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0297</b>	<b>0.2789</b>	<b>0.4738</b>	<b>7.4000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>65.0626</b>	<b>65.0626</b>	<b>0.0210</b>	<b>0.0000</b>	<b>65.5886</b>

**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	1.1800e-003	6.1000e-004	7.7600e-003	3.0000e-005	3.5800e-003	2.0000e-005	3.6000e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.4389	2.4389	4.0000e-005	0.0000	2.4400
<b>Total</b>	<b>1.1800e-003</b>	<b>6.1000e-004</b>	<b>7.7600e-003</b>	<b>3.0000e-005</b>	<b>3.5800e-003</b>	<b>2.0000e-005</b>	<b>3.6000e-003</b>	<b>9.5000e-004</b>	<b>2.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>2.4389</b>	<b>2.4389</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.4400</b>

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**3.8 Paving for Rancho Cordova Widening - 2027**

**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	0.0297	0.2789	0.4738	7.4000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	65.0625	65.0625	0.0210	0.0000	65.5886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0297</b>	<b>0.2789</b>	<b>0.4738</b>	<b>7.4000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>65.0625</b>	<b>65.0625</b>	<b>0.0210</b>	<b>0.0000</b>	<b>65.5886</b>

**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	1.1800e-003	6.1000e-004	7.7600e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.4389	2.4389	4.0000e-005	0.0000	2.4400
<b>Total</b>	<b>1.1800e-003</b>	<b>6.1000e-004</b>	<b>7.7600e-003</b>	<b>3.0000e-005</b>	<b>3.3000e-003</b>	<b>2.0000e-005</b>	<b>3.3200e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.4389</b>	<b>2.4389</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.4400</b>

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**3.8 Paving for Rancho Cordova Widening - 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	9.6100e-003	0.0901	0.1531	2.4000e-004		4.3900e-003	4.3900e-003		4.0400e-003	4.0400e-003	0.0000	21.0202	21.0202	6.8000e-003	0.0000	21.1902
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.6100e-003</b>	<b>0.0901</b>	<b>0.1531</b>	<b>2.4000e-004</b>		<b>4.3900e-003</b>	<b>4.3900e-003</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>21.0202</b>	<b>21.0202</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1902</b>

**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	1.8000e-004	2.3500e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.7629	0.7629	1.0000e-005	0.0000	0.7633
<b>Total</b>	<b>3.6000e-004</b>	<b>1.8000e-004</b>	<b>2.3500e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.7629</b>	<b>0.7629</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.7633</b>

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**3.8 Paving for Rancho Cordova Widening - 2028**

**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	9.6100e-003	0.0901	0.1531	2.4000e-004		4.3900e-003	4.3900e-003		4.0400e-003	4.0400e-003	0.0000	21.0202	21.0202	6.8000e-003	0.0000	21.1902
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.6100e-003</b>	<b>0.0901</b>	<b>0.1531</b>	<b>2.4000e-004</b>		<b>4.3900e-003</b>	<b>4.3900e-003</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>21.0202</b>	<b>21.0202</b>	<b>6.8000e-003</b>	<b>0.0000</b>	<b>21.1902</b>

**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	1.8000e-004	2.3500e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0700e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.7629	0.7629	1.0000e-005	0.0000	0.7633
<b>Total</b>	<b>3.6000e-004</b>	<b>1.8000e-004</b>	<b>2.3500e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.7629</b>	<b>0.7629</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.7633</b>

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**3.9 Site Prepration for Park - Lot D - 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					1.7615	0.0000	1.7615	0.9682	0.0000	0.9682	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2411	2.4603	1.7464	3.7100e-003		0.1060	0.1060		0.0975	0.0975	0.0000	326.3031	326.3031	0.1055	0.0000	328.9414
<b>Total</b>	<b>0.2411</b>	<b>2.4603</b>	<b>1.7464</b>	<b>3.7100e-003</b>	<b>1.7615</b>	<b>0.1060</b>	<b>1.8674</b>	<b>0.9682</b>	<b>0.0975</b>	<b>1.0657</b>	<b>0.0000</b>	<b>326.3031</b>	<b>326.3031</b>	<b>0.1055</b>	<b>0.0000</b>	<b>328.9414</b>

**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	3.9800e-003	2.0200e-003	0.0262	9.0000e-005	0.0129	7.0000e-005	0.0130	3.4300e-003	7.0000e-005	3.4900e-003	0.0000	8.5012	8.5012	1.4000e-004	0.0000	8.5048
<b>Total</b>	<b>3.9800e-003</b>	<b>2.0200e-003</b>	<b>0.0262</b>	<b>9.0000e-005</b>	<b>0.0129</b>	<b>7.0000e-005</b>	<b>0.0130</b>	<b>3.4300e-003</b>	<b>7.0000e-005</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.5012</b>	<b>8.5012</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>8.5048</b>

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**3.9 Site Prepration for Park - Lot D - 2028**

**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					0.7927	0.0000	0.7927	0.4357	0.0000	0.4357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2411	2.4603	1.7464	3.7100e-003		0.1060	0.1060		0.0975	0.0975	0.0000	326.3027	326.3027	0.1055	0.0000	328.9411
<b>Total</b>	<b>0.2411</b>	<b>2.4603</b>	<b>1.7464</b>	<b>3.7100e-003</b>	<b>0.7927</b>	<b>0.1060</b>	<b>0.8986</b>	<b>0.4357</b>	<b>0.0975</b>	<b>0.5332</b>	<b>0.0000</b>	<b>326.3027</b>	<b>326.3027</b>	<b>0.1055</b>	<b>0.0000</b>	<b>328.9411</b>

**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	3.9800e-003	2.0200e-003	0.0262	9.0000e-005	0.0119	7.0000e-005	0.0120	3.1800e-003	7.0000e-005	3.2500e-003	0.0000	8.5012	8.5012	1.4000e-004	0.0000	8.5048
<b>Total</b>	<b>3.9800e-003</b>	<b>2.0200e-003</b>	<b>0.0262</b>	<b>9.0000e-005</b>	<b>0.0119</b>	<b>7.0000e-005</b>	<b>0.0120</b>	<b>3.1800e-003</b>	<b>7.0000e-005</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>8.5012</b>	<b>8.5012</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>8.5048</b>



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**3.9 Site Prepration for Park - Lot D - 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					
Fugitive Dust					0.5872	0.0000	0.5872	0.3228	0.0000	0.3228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0804	0.8201	0.5821	1.2400e-003		0.0353	0.0353		0.0325	0.0325	0.0000	108.7677	108.7677	0.0352	0.0000	109.6472
<b>Total</b>	<b>0.0804</b>	<b>0.8201</b>	<b>0.5821</b>	<b>1.2400e-003</b>	<b>0.5872</b>	<b>0.0353</b>	<b>0.6225</b>	<b>0.3228</b>	<b>0.0325</b>	<b>0.3553</b>	<b>0.0000</b>	<b>108.7677</b>	<b>108.7677</b>	<b>0.0352</b>	<b>0.0000</b>	<b>109.6472</b>

**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	1.2400e-003	6.2000e-004	8.1500e-003	3.0000e-005	4.3000e-003	2.0000e-005	4.3200e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	2.7514	2.7514	4.0000e-005	0.0000	2.7525
<b>Total</b>	<b>1.2400e-003</b>	<b>6.2000e-004</b>	<b>8.1500e-003</b>	<b>3.0000e-005</b>	<b>4.3000e-003</b>	<b>2.0000e-005</b>	<b>4.3200e-003</b>	<b>1.1400e-003</b>	<b>2.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>2.7514</b>	<b>2.7514</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.7525</b>

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**3.9 Site Prepration for Park - Lot D - 2029**

**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					0.2642	0.0000	0.2642	0.1452	0.0000	0.1452	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0804	0.8201	0.5821	1.2400e-003		0.0353	0.0353		0.0325	0.0325	0.0000	108.7676	108.7676	0.0352	0.0000	109.6470
<b>Total</b>	<b>0.0804</b>	<b>0.8201</b>	<b>0.5821</b>	<b>1.2400e-003</b>	<b>0.2642</b>	<b>0.0353</b>	<b>0.2995</b>	<b>0.1452</b>	<b>0.0325</b>	<b>0.1777</b>	<b>0.0000</b>	<b>108.7676</b>	<b>108.7676</b>	<b>0.0352</b>	<b>0.0000</b>	<b>109.6470</b>

**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	1.2400e-003	6.2000e-004	8.1500e-003	3.0000e-005	3.9600e-003	2.0000e-005	3.9800e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	2.7514	2.7514	4.0000e-005	0.0000	2.7525
<b>Total</b>	<b>1.2400e-003</b>	<b>6.2000e-004</b>	<b>8.1500e-003</b>	<b>3.0000e-005</b>	<b>3.9600e-003</b>	<b>2.0000e-005</b>	<b>3.9800e-003</b>	<b>1.0600e-003</b>	<b>2.0000e-005</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>2.7514</b>	<b>2.7514</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.7525</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4990	2.5903	5.8155	0.0274	3.2166	0.0140	3.2306	0.8612	0.0130	0.8742	0.0000	2,536.2114	2,536.2114	0.0925	0.0000	2,538.5245
Unmitigated	0.4990	2.5903	5.8155	0.0274	3.2166	0.0140	3.2306	0.8612	0.0130	0.8742	0.0000	2,536.2114	2,536.2114	0.0925	0.0000	2,538.5245

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	106.40	102.24	93.76	266,875	266,875
City Park	1.93	23.28	17.13	13,200	13,200
City Park	2.99	35.95	26.45	20,380	20,380
City Park	17.20	207.03	152.33	117,380	117,380
Retirement Community	708.00	598.85	575.25	1,728,128	1,728,128
Single Family Housing	2,551.36	2,655.88	2310.16	6,496,963	6,496,963
<b>Total</b>	<b>3,387.88</b>	<b>3,623.22</b>	<b>3,175.08</b>	<b>8,642,925</b>	<b>8,642,925</b>

**4.3 Trip Type Information**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	994.2215	994.2215	0.0488	0.0101	998.4540
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	994.2215	994.2215	0.0488	0.0101	998.4540
NaturalGas Mitigated	0.0574	0.4907	0.2088	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.2599	568.2599	0.0109	0.0104	571.6368
NaturalGas Unmitigated	0.0574	0.4907	0.2088	3.1300e-003		0.0397	0.0397		0.0397	0.0397	0.0000	568.2599	568.2599	0.0109	0.0104	571.6368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	155970	8.4000e-004	7.1900e-003	3.0600e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.3231	8.3231	1.6000e-004	1.5000e-004	8.3726
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.56912e+006	0.0193	0.1645	0.0700	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.4620	190.4620	3.6500e-003	3.4900e-003	191.5938
Single Family Housing	6.9237e+006	0.0373	0.3190	0.1358	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	369.4748	369.4748	7.0800e-003	6.7700e-003	371.6704
<b>Total</b>		<b>0.0574</b>	<b>0.4907</b>	<b>0.2088</b>	<b>3.1400e-003</b>		<b>0.0397</b>	<b>0.0397</b>		<b>0.0397</b>	<b>0.0397</b>	<b>0.0000</b>	<b>568.2599</b>	<b>568.2599</b>	<b>0.0109</b>	<b>0.0104</b>	<b>571.6368</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	155970	8.4000e-004	7.1900e-003	3.0600e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.3231	8.3231	1.6000e-004	1.5000e-004	8.3726
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.56912e+006	0.0193	0.1645	0.0700	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.4620	190.4620	3.6500e-003	3.4900e-003	191.5938
Single Family Housing	6.9237e+006	0.0373	0.3190	0.1358	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	369.4748	369.4748	7.0800e-003	6.7700e-003	371.6704
<b>Total</b>		<b>0.0574</b>	<b>0.4907</b>	<b>0.2088</b>	<b>3.1400e-003</b>		<b>0.0397</b>	<b>0.0397</b>		<b>0.0397</b>	<b>0.0397</b>	<b>0.0000</b>	<b>568.2599</b>	<b>568.2599</b>	<b>0.0109</b>	<b>0.0104</b>	<b>571.6368</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	68103.4	18.2354	9.0000e-004	1.9000e-004	18.3130
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.38207e+006	370.0630	0.0182	3.7600e-003	371.6384
Single Family Housing	2.26293e+006	605.9232	0.0298	6.1600e-003	608.5027
<b>Total</b>		<b>994.2215</b>	<b>0.0489</b>	<b>0.0101</b>	<b>998.4540</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	68103.4	18.2354	9.0000e-004	1.9000e-004	18.3130
City Park	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.38207e+006	370.0630	0.0182	3.7600e-003	371.6384
Single Family Housing	2.26293e+006	605.9232	0.0298	6.1600e-003	608.5027
<b>Total</b>		<b>994.2215</b>	<b>0.0489</b>	<b>0.0101</b>	<b>998.4540</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8083	0.0687	5.9502	3.2000e-004		0.0331	0.0331		0.0331	0.0331	0.0000	9.7539	9.7539	9.2900e-003	0.0000	9.9860
Unmitigated	3.8083	0.0687	5.9502	3.2000e-004		0.0331	0.0331		0.0331	0.0331	0.0000	9.7539	9.7539	9.2900e-003	0.0000	9.9860

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1307					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	0.1779	0.0687	5.9502	3.2000e-004		0.0331	0.0331		0.0331	0.0331	0.0000	9.7539	9.7539	9.2900e-003	0.0000	9.9860
<b>Total</b>	<b>3.8083</b>	<b>0.0687</b>	<b>5.9502</b>	<b>3.2000e-004</b>		<b>0.0331</b>	<b>0.0331</b>		<b>0.0331</b>	<b>0.0331</b>	<b>0.0000</b>	<b>9.7539</b>	<b>9.7539</b>	<b>9.2900e-003</b>	<b>0.0000</b>	<b>9.9860</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1307					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	0.1779	0.0687	5.9502	3.2000e-004		0.0331	0.0331		0.0331	0.0331	0.0000	9.7539	9.7539	9.2900e-003	0.0000	9.9860
<b>Total</b>	<b>3.8083</b>	<b>0.0687</b>	<b>5.9502</b>	<b>3.2000e-004</b>		<b>0.0331</b>	<b>0.0331</b>		<b>0.0331</b>	<b>0.0331</b>	<b>0.0000</b>	<b>9.7539</b>	<b>9.7539</b>	<b>9.2900e-003</b>	<b>0.0000</b>	<b>9.9860</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	99.0287	0.0502	0.0299	109.1914
Unmitigated	99.0287	0.0502	0.0299	109.1914

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.04246 / 0.657206	2.3755	1.3700e-003	8.2000e-004	2.6548
City Park	0 / 13.9403	13.0643	6.4000e-004	1.3000e-004	13.1199
Retirement Community	19.2204 / 12.1172	43.7988	0.0252	0.0152	48.9483
Single Family Housing	17.4613 / 11.0082	39.7901	0.0229	0.0138	44.4683
<b>Total</b>		<b>99.0288</b>	<b>0.0501</b>	<b>0.0299</b>	<b>109.1914</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.04246 / 0.657206	2.3755	1.3700e-003	8.2000e-004	2.6548
City Park	0 / 13.9403	13.0643	6.4000e-004	1.3000e-004	13.1199
Retirement Community	19.2204 / 12.1172	43.7988	0.0252	0.0152	48.9483
Single Family Housing	17.4613 / 11.0082	39.7901	0.0229	0.0138	44.4683
<b>Total</b>		<b>99.0288</b>	<b>0.0501</b>	<b>0.0299</b>	<b>109.1914</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	81.5679	4.8205	0.0000	202.0809
Unmitigated	81.5679	4.8205	0.0000	202.0809

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.36	1.4940	0.0883	0.0000	3.7014
City Park	1.01	0.2050	0.0121	0.0000	0.5079
Retirement Community	135.7	27.5459	1.6279	0.0000	68.2437
Single Family Housing	257.76	52.3230	3.0922	0.0000	129.6279
<b>Total</b>		<b>81.5679</b>	<b>4.8205</b>	<b>0.0000</b>	<b>202.0809</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.36	1.4940	0.0883	0.0000	3.7014
City Park	1.01	0.2050	0.0121	0.0000	0.5079
Retirement Community	135.7	27.5459	1.6279	0.0000	68.2437
Single Family Housing	257.76	52.3230	3.0922	0.0000	129.6279
<b>Total</b>		<b>81.5679</b>	<b>4.8205</b>	<b>0.0000</b>	<b>202.0809</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

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Equipment Type	Number
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### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	528.6770	0.0000	0.0000	528.6770

### 11.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 284.8	- / 1,057.2430	0.0000	0.0000	- / 1,057.2430
<b>Total</b>		<b>- / 1,057.2430</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- / 1,057.2430</b>

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**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920 0</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Construction Only - Phase 3)**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	268.00	Dwelling Unit	28.39	482,400.00	716
Retirement Community	295.00	Dwelling Unit	36.49	295,000.00	788
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	33
City Park	1.02	Acre	1.23	44,576.40	0
City Park	1.58	Acre	1.58	68,824.80	0
City Park	9.10	Acre	9.28	396,396.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction state date of February 2025 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 3

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

applicant)  
Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 104.38 acres graded (includes roadways). Assume 25,451 cy of material exported during this phase (total for all construction phases of 152,708 cy net export provided by applicant).

Architectural Coating -

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	43.00
tblConstructionPhase	NumDays	155.00	132.00
tblConstructionPhase	NumDays	110.00	65.00
tblConstructionPhase	NumDays	1,550.00	717.00
tblConstructionPhase	NumDays	110.00	718.00
tblConstructionPhase	NumDays	60.00	196.00
tblConstructionPhase	NumDays	110.00	86.00
tblConstructionPhase	NumDays	60.00	260.00
tblConstructionPhase	PhaseEndDate	4/25/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	11/28/2025	10/28/2025
tblConstructionPhase	PhaseEndDate	4/9/2032	12/31/2025
tblConstructionPhase	PhaseEndDate	11/7/2031	9/29/2028
tblConstructionPhase	PhaseEndDate	9/10/2032	12/29/2028
tblConstructionPhase	PhaseStartDate	4/26/2025	4/28/2025
tblConstructionPhase	PhaseStartDate	11/8/2031	10/2/2025
tblConstructionPhase	PhaseStartDate	11/29/2025	1/1/2026
tblConstructionPhase	PhaseStartDate	4/10/2032	4/1/2026
tblGrading	AcresOfGrading	330.00	104.38
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	87.01	28.39
tblLandUse	LotAcreage	59.00	36.49
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	Population	43.00	33.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00

## The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.9248	36.5723	41.6727	0.0872	18.7765	1.5511	19.8756	10.1090	1.4270	11.1206	0.0000	8,444.6697	8,444.6697	2.6616	0.0000	8,511.2099
2026	17.6287	25.5300	33.5186	0.1048	5.7558	0.6224	6.3782	1.5464	0.5881	2.1345	0.0000	10,520.1479	10,520.1479	0.8694	0.0000	10,541.8832
2027	20.0377	50.5329	50.8083	0.1423	23.9589	1.7079	25.6667	11.5133	1.5868	13.1001	0.0000	14,160.4026	14,160.4026	2.0558	0.0000	14,211.7962
2028	19.9204	50.3138	49.9411	0.1409	23.9588	1.7054	25.6642	11.5133	1.5844	13.0978	0.0000	14,016.8131	14,016.8131	2.0477	0.0000	14,068.0061
2029	2.5164	25.2512	18.2123	0.0391	18.2032	1.0875	19.2907	9.9670	1.0005	10.9675	0.0000	3,792.3297	3,792.3297	1.1948	0.0000	3,822.2000
<b>Maximum</b>	<b>20.0377</b>	<b>50.5329</b>	<b>50.8083</b>	<b>0.1423</b>	<b>23.9589</b>	<b>1.7079</b>	<b>25.6667</b>	<b>11.5133</b>	<b>1.5868</b>	<b>13.1001</b>	<b>0.0000</b>	<b>14,160.4026</b>	<b>14,160.4026</b>	<b>2.6616</b>	<b>0.0000</b>	<b>14,211.7962</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Energy	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
Mobile	3.8495	15.2286	39.4850	0.1765	19.8919	0.0838	19.9756	5.3108	0.0778	5.3886		17,986.1847	17,986.1847	0.6171		18,001.6123
<b>Total</b>	<b>25.4800</b>	<b>18.4664</b>	<b>88.2306</b>	<b>0.1962</b>	<b>19.8919</b>	<b>0.5660</b>	<b>20.4579</b>	<b>5.3108</b>	<b>0.5601</b>	<b>5.8709</b>	<b>0.0000</b>	<b>21,504.5242</b>	<b>21,504.5242</b>	<b>0.7648</b>	<b>0.0629</b>	<b>21,542.3956</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Energy	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
Mobile	3.8495	15.2286	39.4850	0.1765	19.8919	0.0838	19.9756	5.3108	0.0778	5.3886		17,986.1847	17,986.1847	0.6171		18,001.6123
<b>Total</b>	<b>25.4800</b>	<b>18.4664</b>	<b>88.2306</b>	<b>0.1962</b>	<b>19.8919</b>	<b>0.5660</b>	<b>20.4579</b>	<b>5.3108</b>	<b>0.5601</b>	<b>5.8709</b>	<b>0.0000</b>	<b>21,504.5242</b>	<b>21,504.5242</b>	<b>0.7648</b>	<b>0.0629</b>	<b>21,542.3956</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2025	4/2/2025	5	43	
2	Grading	Grading	4/28/2025	10/28/2025	5	132	
3	Building Construction	Building Construction	1/1/2026	9/29/2028	5	717	
4	Paving	Paving	10/2/2025	12/31/2025	5	65	
5	Architectural Coating	Architectural Coating	4/1/2026	12/29/2028	5	718	
6	Site Preparation and Grading for Rancho Cordova Widening	Site Preparation	1/1/2027	10/1/2027	5	196	
7	Paving for Rancho Cordova Widening	Paving	10/2/2027	1/31/2028	5	86	
8	Site Preparation for Park - Lot D	Site Preparation	4/1/2028	3/30/2029	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 104.38

Acres of Paving: 0

Residential Indoor: 1,606,635; Residential Outdoor: 535,545; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



## The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

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

**Trips and VMT**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	3,181.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	535.00	145.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	107.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving for Rancho Cordova Widening	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading for Rancho C	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Park - Lot D	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					18.1887	0.0000	18.1887	9.9492	0.0000	9.9492			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.1887</b>	<b>1.0868</b>	<b>19.2755</b>	<b>9.9492</b>	<b>0.9999</b>	<b>10.9491</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1777	8.3941	1.6712	0.0236	0.4509	0.0115	0.4624	0.1234	0.0110	0.1344		2,532.8562	2,532.8562	0.1713		2,537.1381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0246	0.3928	1.1900e-003	0.1369	8.4000e-004	0.1378	0.0363	7.8000e-004	0.0371		118.1022	118.1022	2.4200e-003		118.1627
<b>Total</b>	<b>0.2335</b>	<b>8.4186</b>	<b>2.0640</b>	<b>0.0248</b>	<b>0.5879</b>	<b>0.0123</b>	<b>0.6002</b>	<b>0.1598</b>	<b>0.0118</b>	<b>0.1715</b>		<b>2,650.9584</b>	<b>2,650.9584</b>	<b>0.1737</b>		<b>2,655.3008</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.2 Site Preparation - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1849	0.0000	8.1849	4.4772	0.0000	4.4772			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1849</b>	<b>1.0868</b>	<b>9.2717</b>	<b>4.4772</b>	<b>0.9999</b>	<b>5.4770</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1777	8.3941	1.6712	0.0236	0.4201	0.0115	0.4316	0.1159	0.0110	0.1269		2,532.8562	2,532.8562	0.1713		2,537.1381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0246	0.3928	1.1900e-003	0.1262	8.4000e-004	0.1271	0.0337	7.8000e-004	0.0345		118.1022	118.1022	2.4200e-003		118.1627
<b>Total</b>	<b>0.2335</b>	<b>8.4186</b>	<b>2.0640</b>	<b>0.0248</b>	<b>0.5463</b>	<b>0.0123</b>	<b>0.5587</b>	<b>0.1496</b>	<b>0.0118</b>	<b>0.1614</b>		<b>2,650.9584</b>	<b>2,650.9584</b>	<b>0.1737</b>		<b>2,655.3008</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.8607	0.0000	6.8607	3.4008	0.0000	3.4008			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.8607</b>	<b>1.1309</b>	<b>7.9916</b>	<b>3.4008</b>	<b>1.0404</b>	<b>4.4412</b>		<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0273	0.4364	1.3200e-003	0.1521	9.4000e-004	0.1531	0.0404	8.6000e-004	0.0412		131.2246	131.2246	2.6900e-003		131.2918
<b>Total</b>	<b>0.0620</b>	<b>0.0273</b>	<b>0.4364</b>	<b>1.3200e-003</b>	<b>0.1521</b>	<b>9.4000e-004</b>	<b>0.1531</b>	<b>0.0404</b>	<b>8.6000e-004</b>	<b>0.0412</b>		<b>131.2246</b>	<b>131.2246</b>	<b>2.6900e-003</b>		<b>131.2918</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.3 Grading - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0873	0.0000	3.0873	1.5304	0.0000	1.5304			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.0873</b>	<b>1.1309</b>	<b>4.2182</b>	<b>1.5304</b>	<b>1.0404</b>	<b>2.5708</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0273	0.4364	1.3200e-003	0.1402	9.4000e-004	0.1412	0.0374	8.6000e-004	0.0383		131.2246	131.2246	2.6900e-003		131.2918
<b>Total</b>	<b>0.0620</b>	<b>0.0273</b>	<b>0.4364</b>	<b>1.3200e-003</b>	<b>0.1402</b>	<b>9.4000e-004</b>	<b>0.1412</b>	<b>0.0374</b>	<b>8.6000e-004</b>	<b>0.0383</b>		<b>131.2246</b>	<b>131.2246</b>	<b>2.6900e-003</b>		<b>131.2918</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2890	11.1146	2.5677	0.0341	0.8721	0.0141	0.8862	0.2509	0.0135	0.2644		3,626.490 7	3,626.490 7	0.1745		3,630.853 7
Worker	1.5687	0.6668	10.8810	0.0339	4.0697	0.0243	4.0941	1.0795	0.0224	1.1019		3,379.779 1	3,379.779 1	0.0655		3,381.416 3
<b>Total</b>	<b>1.8577</b>	<b>11.7815</b>	<b>13.4486</b>	<b>0.0680</b>	<b>4.9418</b>	<b>0.0385</b>	<b>4.9803</b>	<b>1.3305</b>	<b>0.0359</b>	<b>1.3664</b>		<b>7,006.269 7</b>	<b>7,006.269 7</b>	<b>0.2400</b>		<b>7,012.270 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.4 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2890	11.1146	2.5677	0.0341	0.8160	0.0141	0.8301	0.2372	0.0135	0.2507		3,626.490 7	3,626.490 7	0.1745		3,630.853 7
Worker	1.5687	0.6668	10.8810	0.0339	3.7514	0.0243	3.7758	1.0014	0.0224	1.0238		3,379.779 1	3,379.779 1	0.0655		3,381.416 3
<b>Total</b>	<b>1.8577</b>	<b>11.7815</b>	<b>13.4486</b>	<b>0.0680</b>	<b>4.5674</b>	<b>0.0385</b>	<b>4.6059</b>	<b>1.2386</b>	<b>0.0359</b>	<b>1.2745</b>		<b>7,006.269 7</b>	<b>7,006.269 7</b>	<b>0.2400</b>		<b>7,012.270 0</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2790	10.9309	2.4613	0.0339	0.8720	0.0135	0.8855	0.2509	0.0129	0.2638		3,607.830 9	3,607.830 9	0.1727		3,612.147 6
Worker	1.4824	0.6103	10.1661	0.0327	4.0697	0.0231	4.0929	1.0795	0.0213	1.1008		3,263.131 6	3,263.131 6	0.0597		3,264.624 0
<b>Total</b>	<b>1.7614</b>	<b>11.5412</b>	<b>12.6274</b>	<b>0.0667</b>	<b>4.9418</b>	<b>0.0366</b>	<b>4.9784</b>	<b>1.3304</b>	<b>0.0342</b>	<b>1.3646</b>		<b>6,870.962 5</b>	<b>6,870.962 5</b>	<b>0.2324</b>		<b>6,876.771 6</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.4 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2790	10.9309	2.4613	0.0339	0.8159	0.0135	0.8294	0.2371	0.0129	0.2500		3,607.830 9	3,607.830 9	0.1727		3,612.147 6
Worker	1.4824	0.6103	10.1661	0.0327	3.7514	0.0231	3.7746	1.0014	0.0213	1.0227		3,263.131 6	3,263.131 6	0.0597		3,264.624 0
<b>Total</b>	<b>1.7614</b>	<b>11.5412</b>	<b>12.6274</b>	<b>0.0667</b>	<b>4.5674</b>	<b>0.0366</b>	<b>4.6040</b>	<b>1.2385</b>	<b>0.0342</b>	<b>1.2727</b>		<b>6,870.962 5</b>	<b>6,870.962 5</b>	<b>0.2324</b>		<b>6,876.771 6</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2703	10.7737	2.3717	0.0338	0.8720	0.0129	0.8849	0.2509	0.0123	0.2632		3,591.866 2	3,591.866 2	0.1708		3,596.136 0
Worker	1.3943	0.5602	9.5358	0.0317	4.0697	0.0216	4.0913	1.0795	0.0199	1.0994		3,159.678 1	3,159.678 1	0.0547		3,161.046 0
<b>Total</b>	<b>1.6646</b>	<b>11.3339</b>	<b>11.9075</b>	<b>0.0655</b>	<b>4.9417</b>	<b>0.0345</b>	<b>4.9762</b>	<b>1.3304</b>	<b>0.0322</b>	<b>1.3626</b>		<b>6,751.544 4</b>	<b>6,751.544 4</b>	<b>0.2255</b>		<b>6,757.182 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.4 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2703	10.7737	2.3717	0.0338	0.8159	0.0129	0.8288	0.2371	0.0123	0.2494		3,591.866 2	3,591.866 2	0.1708		3,596.136 0
Worker	1.3943	0.5602	9.5358	0.0317	3.7514	0.0216	3.7730	1.0014	0.0199	1.0213		3,159.678 1	3,159.678 1	0.0547		3,161.046 0
<b>Total</b>	<b>1.6646</b>	<b>11.3339</b>	<b>11.9075</b>	<b>0.0655</b>	<b>4.5673</b>	<b>0.0345</b>	<b>4.6018</b>	<b>1.2385</b>	<b>0.0322</b>	<b>1.2707</b>		<b>6,751.544 4</b>	<b>6,751.544 4</b>	<b>0.2255</b>		<b>6,757.182 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0205	0.3273	9.9000e-004	0.3124	7.0000e-004	0.3131	0.0790	6.5000e-004	0.0796		98.4185	98.4185	2.0200e-003		98.4689
<b>Total</b>	<b>0.0465</b>	<b>0.0205</b>	<b>0.3273</b>	<b>9.9000e-004</b>	<b>0.3124</b>	<b>7.0000e-004</b>	<b>0.3131</b>	<b>0.0790</b>	<b>6.5000e-004</b>	<b>0.0796</b>		<b>98.4185</b>	<b>98.4185</b>	<b>2.0200e-003</b>		<b>98.4689</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0205	0.3273	9.9000e-004	0.2857	7.0000e-004	0.2864	0.0724	6.5000e-004	0.0730		98.4185	98.4185	2.0200e-003		98.4689
<b>Total</b>	<b>0.0465</b>	<b>0.0205</b>	<b>0.3273</b>	<b>9.9000e-004</b>	<b>0.2857</b>	<b>7.0000e-004</b>	<b>0.2864</b>	<b>0.0724</b>	<b>6.5000e-004</b>	<b>0.0730</b>		<b>98.4185</b>	<b>98.4185</b>	<b>2.0200e-003</b>		<b>98.4689</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3137	0.1334	2.1762	6.7800e-003	0.8140	4.8600e-003	0.8188	0.2159	4.4800e-003	0.2204		675.9558	675.9558	0.0131		676.2833
<b>Total</b>	<b>0.3137</b>	<b>0.1334</b>	<b>2.1762</b>	<b>6.7800e-003</b>	<b>0.8140</b>	<b>4.8600e-003</b>	<b>0.8188</b>	<b>0.2159</b>	<b>4.4800e-003</b>	<b>0.2204</b>		<b>675.9558</b>	<b>675.9558</b>	<b>0.0131</b>		<b>676.2833</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.6 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3137	0.1334	2.1762	6.7800e-003	0.7503	4.8600e-003	0.7552	0.2003	4.4800e-003	0.2048		675.9558	675.9558	0.0131		676.2833
<b>Total</b>	<b>0.3137</b>	<b>0.1334</b>	<b>2.1762</b>	<b>6.7800e-003</b>	<b>0.7503</b>	<b>4.8600e-003</b>	<b>0.7552</b>	<b>0.2003</b>	<b>4.4800e-003</b>	<b>0.2048</b>		<b>675.9558</b>	<b>675.9558</b>	<b>0.0131</b>		<b>676.2833</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2965	0.1221	2.0332	6.5500e-003	0.8140	4.6200e-003	0.8186	0.2159	4.2600e-003	0.2202		652.6263	652.6263	0.0119		652.9248
<b>Total</b>	<b>0.2965</b>	<b>0.1221</b>	<b>2.0332</b>	<b>6.5500e-003</b>	<b>0.8140</b>	<b>4.6200e-003</b>	<b>0.8186</b>	<b>0.2159</b>	<b>4.2600e-003</b>	<b>0.2202</b>		<b>652.6263</b>	<b>652.6263</b>	<b>0.0119</b>		<b>652.9248</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.6 Architectural Coating - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2965	0.1221	2.0332	6.5500e-003	0.7503	4.6200e-003	0.7549	0.2003	4.2600e-003	0.2045		652.6263	652.6263	0.0119		652.9248
<b>Total</b>	<b>0.2965</b>	<b>0.1221</b>	<b>2.0332</b>	<b>6.5500e-003</b>	<b>0.7503</b>	<b>4.6200e-003</b>	<b>0.7549</b>	<b>0.2003</b>	<b>4.2600e-003</b>	<b>0.2045</b>		<b>652.6263</b>	<b>652.6263</b>	<b>0.0119</b>		<b>652.9248</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.1120	1.9072	6.3400e-003	0.8140	4.3200e-003	0.8183	0.2159	3.9700e-003	0.2199		631.9356	631.9356	0.0109		632.2092
<b>Total</b>	<b>0.2789</b>	<b>0.1120</b>	<b>1.9072</b>	<b>6.3400e-003</b>	<b>0.8140</b>	<b>4.3200e-003</b>	<b>0.8183</b>	<b>0.2159</b>	<b>3.9700e-003</b>	<b>0.2199</b>		<b>631.9356</b>	<b>631.9356</b>	<b>0.0109</b>		<b>632.2092</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.6 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.1120	1.9072	6.3400e-003	0.7503	4.3200e-003	0.7546	0.2003	3.9700e-003	0.2043		631.9356	631.9356	0.0109		632.2092
<b>Total</b>	<b>0.2789</b>	<b>0.1120</b>	<b>1.9072</b>	<b>6.3400e-003</b>	<b>0.7503</b>	<b>4.3200e-003</b>	<b>0.7546</b>	<b>0.2003</b>	<b>3.9700e-003</b>	<b>0.2043</b>		<b>631.9356</b>	<b>631.9356</b>	<b>0.0109</b>		<b>632.2092</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.7 Site Preparation and Grading for Rancho Cordova Widening - 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	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931			3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>			<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0499	0.0205	0.3420	1.1000e-003	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		109.7876	109.7876	2.0100e-003			109.8378
<b>Total</b>	<b>0.0499</b>	<b>0.0205</b>	<b>0.3420</b>	<b>1.1000e-003</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>109.7876</b>	<b>109.7876</b>	<b>2.0100e-003</b>			<b>109.8378</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.7 Site Preparation and Grading for Rancho Cordova Widening - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0499	0.0205	0.3420	1.1000e-003	0.1262	7.8000e-004	0.1270	0.0337	7.2000e-004	0.0344		109.7876	109.7876	2.0100e-003		109.8378
<b>Total</b>	<b>0.0499</b>	<b>0.0205</b>	<b>0.3420</b>	<b>1.1000e-003</b>	<b>0.1262</b>	<b>7.8000e-004</b>	<b>0.1270</b>	<b>0.0337</b>	<b>7.2000e-004</b>	<b>0.0344</b>		<b>109.7876</b>	<b>109.7876</b>	<b>2.0100e-003</b>		<b>109.8378</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.8 Paving for Rancho Cordova Widening - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0171	0.2850	9.2000e-004	0.1141	6.5000e-004	0.1148	0.0303	6.0000e-004	0.0309		91.4897	91.4897	1.6700e-003		91.5315
<b>Total</b>	<b>0.0416</b>	<b>0.0171</b>	<b>0.2850</b>	<b>9.2000e-004</b>	<b>0.1141</b>	<b>6.5000e-004</b>	<b>0.1148</b>	<b>0.0303</b>	<b>6.0000e-004</b>	<b>0.0309</b>		<b>91.4897</b>	<b>91.4897</b>	<b>1.6700e-003</b>		<b>91.5315</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.8 Paving for Rancho Cordova Widening - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0171	0.2850	9.2000e-004	0.1052	6.5000e-004	0.1058	0.0281	6.0000e-004	0.0287		91.4897	91.4897	1.6700e-003		91.5315
<b>Total</b>	<b>0.0416</b>	<b>0.0171</b>	<b>0.2850</b>	<b>9.2000e-004</b>	<b>0.1052</b>	<b>6.5000e-004</b>	<b>0.1058</b>	<b>0.0281</b>	<b>6.0000e-004</b>	<b>0.0287</b>		<b>91.4897</b>	<b>91.4897</b>	<b>1.6700e-003</b>		<b>91.5315</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.8 Paving for Rancho Cordova Widening - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0391	0.0157	0.2674	8.9000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		88.5891	88.5891	1.5300e-003		88.6275
<b>Total</b>	<b>0.0391</b>	<b>0.0157</b>	<b>0.2674</b>	<b>8.9000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>88.5891</b>	<b>88.5891</b>	<b>1.5300e-003</b>		<b>88.6275</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.8 Paving for Rancho Cordova Widening - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0391	0.0157	0.2674	8.9000e-004	0.1052	6.1000e-004	0.1058	0.0281	5.6000e-004	0.0286		88.5891	88.5891	1.5300e-003		88.6275
<b>Total</b>	<b>0.0391</b>	<b>0.0157</b>	<b>0.2674</b>	<b>8.9000e-004</b>	<b>0.1052</b>	<b>6.1000e-004</b>	<b>0.1058</b>	<b>0.0281</b>	<b>5.6000e-004</b>	<b>0.0286</b>		<b>88.5891</b>	<b>88.5891</b>	<b>1.5300e-003</b>		<b>88.6275</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.9 Site Prepration for Park - Lot D - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0189	0.3208	1.0700e-003	0.1369	7.3000e-004	0.1377	0.0363	6.7000e-004	0.0370		106.3069	106.3069	1.8400e-003		106.3530
<b>Total</b>	<b>0.0469</b>	<b>0.0189</b>	<b>0.3208</b>	<b>1.0700e-003</b>	<b>0.1369</b>	<b>7.3000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.7000e-004</b>	<b>0.0370</b>		<b>106.3069</b>	<b>106.3069</b>	<b>1.8400e-003</b>		<b>106.3530</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.9 Site Prepration for Park - Lot D - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0189	0.3208	1.0700e-003	0.1262	7.3000e-004	0.1269	0.0337	6.7000e-004	0.0344		106.3069	106.3069	1.8400e-003		106.3530
<b>Total</b>	<b>0.0469</b>	<b>0.0189</b>	<b>0.3208</b>	<b>1.0700e-003</b>	<b>0.1262</b>	<b>7.3000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>6.7000e-004</b>	<b>0.0344</b>		<b>106.3069</b>	<b>106.3069</b>	<b>1.8400e-003</b>		<b>106.3530</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.9 Site Prepration for Park - Lot D - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0437	0.0173	0.3005	1.0400e-003	0.1369	6.8000e-004	0.1376	0.0363	6.2000e-004	0.0369		103.2260	103.2260	1.6800e-003		103.2680
<b>Total</b>	<b>0.0437</b>	<b>0.0173</b>	<b>0.3005</b>	<b>1.0400e-003</b>	<b>0.1369</b>	<b>6.8000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.2000e-004</b>	<b>0.0369</b>		<b>103.2260</b>	<b>103.2260</b>	<b>1.6800e-003</b>		<b>103.2680</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**3.9 Site Prepration for Park - Lot D - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0437	0.0173	0.3005	1.0400e-003	0.1262	6.8000e-004	0.1269	0.0337	6.2000e-004	0.0343		103.2260	103.2260	1.6800e-003		103.2680
<b>Total</b>	<b>0.0437</b>	<b>0.0173</b>	<b>0.3005</b>	<b>1.0400e-003</b>	<b>0.1262</b>	<b>6.8000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>6.2000e-004</b>	<b>0.0343</b>		<b>103.2260</b>	<b>103.2260</b>	<b>1.6800e-003</b>		<b>103.2680</b>

**4.0 Operational Detail - Mobile**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8495	15.2286	39.4850	0.1765	19.8919	0.0838	19.9756	5.3108	0.0778	5.3886		17,986.18 47	17,986.18 47	0.6171		18,001.61 23
Unmitigated	3.8495	15.2286	39.4850	0.1765	19.8919	0.0838	19.9756	5.3108	0.0778	5.3886		17,986.18 47	17,986.18 47	0.6171		18,001.61 23

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	106.40	102.24	93.76	266,875	266,875
City Park	1.93	23.28	17.13	13,200	13,200
City Park	2.99	35.95	26.45	20,380	20,380
City Park	17.20	207.03	152.33	117,380	117,380
Retirement Community	708.00	598.85	575.25	1,728,128	1,728,128
Single Family Housing	2,551.36	2,655.88	2310.16	6,496,963	6,496,963
<b>Total</b>	<b>3,387.88</b>	<b>3,623.22</b>	<b>3,175.08</b>	<b>8,642,925</b>	<b>8,642,925</b>

**4.3 Trip Type Information**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
NaturalGas Unmitigated	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	427.314	4.6100e-003	0.0394	0.0168	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.2722	50.2722	9.6000e-004	9.2000e-004	50.5710
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9778.42	0.1055	0.9012	0.3835	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.4021	1,150.4021	0.0221	0.0211	1,157.2383
Single Family Housing	18969	0.2046	1.7481	0.7439	0.0112		0.1413	0.1413		0.1413	0.1413		2,231.6509	2,231.6509	0.0428	0.0409	2,244.9125
<b>Total</b>		<b>0.3146</b>	<b>2.6887</b>	<b>1.1441</b>	<b>0.0172</b>		<b>0.2174</b>	<b>0.2174</b>		<b>0.2174</b>	<b>0.2174</b>		<b>3,432.3252</b>	<b>3,432.3252</b>	<b>0.0658</b>	<b>0.0629</b>	<b>3,452.7218</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0.427314	4.6100e-003	0.0394	0.0168	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.2722	50.2722	9.6000e-004	9.2000e-004	50.5710
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.77842	0.1055	0.9012	0.3835	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.4021	1,150.4021	0.0221	0.0211	1,157.2383
Single Family Housing	18.969	0.2046	1.7481	0.7439	0.0112		0.1413	0.1413		0.1413	0.1413		2,231.6509	2,231.6509	0.0428	0.0409	2,244.9125
<b>Total</b>		<b>0.3146</b>	<b>2.6887</b>	<b>1.1441</b>	<b>0.0172</b>		<b>0.2174</b>	<b>0.2174</b>		<b>0.2174</b>	<b>0.2174</b>		<b>3,432.3252</b>	<b>3,432.3252</b>	<b>0.0658</b>	<b>0.0629</b>	<b>3,452.7218</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Unmitigated	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1545					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	1.4233	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649		86.0143	86.0143	0.0819		88.0615
<b>Total</b>	<b>21.3159</b>	<b>0.5492</b>	<b>47.6015</b>	<b>2.5200e-003</b>		<b>0.2649</b>	<b>0.2649</b>		<b>0.2649</b>	<b>0.2649</b>	<b>0.0000</b>	<b>86.0143</b>	<b>86.0143</b>	<b>0.0819</b>	<b>0.0000</b>	<b>88.0615</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1545					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	1.4233	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649		86.0143	86.0143	0.0819		88.0615
<b>Total</b>	<b>21.3159</b>	<b>0.5492</b>	<b>47.6015</b>	<b>2.5200e-003</b>		<b>0.2649</b>	<b>0.2649</b>		<b>0.2649</b>	<b>0.2649</b>	<b>0.0000</b>	<b>86.0143</b>	<b>86.0143</b>	<b>0.0819</b>	<b>0.0000</b>	<b>88.0615</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Construction Only - Phase 3)**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	268.00	Dwelling Unit	28.39	482,400.00	716
Retirement Community	295.00	Dwelling Unit	36.49	295,000.00	788
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	33
City Park	1.02	Acre	1.23	44,576.40	0
City Park	1.58	Acre	1.58	68,824.80	0
City Park	9.10	Acre	9.28	396,396.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Estimated construction state date of February 2025 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 3

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

applicant)  
Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 104.38 acres graded (includes roadways). Assume 25,451 cy of material exported during this phase (total for all construction phases of 152,708 cy net export provided by applicant).

Architectural Coating -

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust - Project will not have unpaved roads during the project's operational phase. Therefore, project does not use CARB Unmitigated Unpaved Road Statewide Emission Inventory Method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

## The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	43.00
tblConstructionPhase	NumDays	155.00	132.00
tblConstructionPhase	NumDays	110.00	65.00
tblConstructionPhase	NumDays	1,550.00	717.00
tblConstructionPhase	NumDays	110.00	718.00
tblConstructionPhase	NumDays	60.00	196.00
tblConstructionPhase	NumDays	110.00	86.00
tblConstructionPhase	NumDays	60.00	260.00
tblConstructionPhase	PhaseEndDate	4/25/2025	4/2/2025
tblConstructionPhase	PhaseEndDate	11/28/2025	10/28/2025
tblConstructionPhase	PhaseEndDate	4/9/2032	12/31/2025
tblConstructionPhase	PhaseEndDate	11/7/2031	9/29/2028
tblConstructionPhase	PhaseEndDate	9/10/2032	12/29/2028
tblConstructionPhase	PhaseStartDate	4/26/2025	4/28/2025
tblConstructionPhase	PhaseStartDate	11/8/2031	10/2/2025
tblConstructionPhase	PhaseStartDate	11/29/2025	1/1/2026
tblConstructionPhase	PhaseStartDate	4/10/2032	4/1/2026
tblGrading	AcresOfGrading	330.00	104.38
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LandUseSquareFeet	44,576.25	44,576.40
tblLandUse	LotAcreage	87.01	28.39
tblLandUse	LotAcreage	59.00	36.49
tblLandUse	LotAcreage	1.02	1.23
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	Population	43.00	33.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

**2.0 Emissions Summary**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	3.9172	36.5834	41.5509	0.0869	18.7765	1.5511	19.8768	10.1090	1.4270	11.1217	0.0000	8,416.764 3	8,416.764 3	2.6610	0.0000	8,483.289 6
2026	17.5197	25.8170	31.7945	0.0989	5.7558	0.6234	6.3792	1.5464	0.5891	2.1355	0.0000	9,934.973 0	9,934.973 0	0.8732	0.0000	9,956.803 7
2027	19.9367	50.8038	49.1196	0.1366	23.9589	1.7088	25.6676	11.5133	1.5876	13.1010	0.0000	13,579.62 12	13,579.62 12	2.0599	0.0000	13,631.119 2
2028	19.8282	50.5673	48.3376	0.1353	23.9588	1.7062	25.6650	11.5133	1.5852	13.0985	0.0000	13,452.12 62	13,452.12 62	2.0524	0.0000	13,503.43 66
2029	2.5137	25.2551	18.1615	0.0390	18.2032	1.0875	19.2907	9.9670	1.0005	10.9675	0.0000	3,779.766 3	3,779.766 3	1.1946	0.0000	3,809.631 0
<b>Maximum</b>	<b>19.9367</b>	<b>50.8038</b>	<b>49.1196</b>	<b>0.1366</b>	<b>23.9589</b>	<b>1.7088</b>	<b>25.6676</b>	<b>11.5133</b>	<b>1.5876</b>	<b>13.1010</b>	<b>0.0000</b>	<b>13,579.62 12</b>	<b>13,579.62 12</b>	<b>2.6610</b>	<b>0.0000</b>	<b>13,631.11 92</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Energy	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
Mobile	2.7932	15.8365	35.7184	0.1601	19.8919	0.0841	19.9760	5.3108	0.0782	5.3890		16,345.5907	16,345.5907	0.6262		16,361.2461
<b>Total</b>	<b>24.4237</b>	<b>19.0744</b>	<b>84.4641</b>	<b>0.1798</b>	<b>19.8919</b>	<b>0.5664</b>	<b>20.4583</b>	<b>5.3108</b>	<b>0.5605</b>	<b>5.8713</b>	<b>0.0000</b>	<b>19,863.9302</b>	<b>19,863.9302</b>	<b>0.7739</b>	<b>0.0629</b>	<b>19,902.0293</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Energy	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
Mobile	2.7932	15.8365	35.7184	0.1601	19.8919	0.0841	19.9760	5.3108	0.0782	5.3890		16,345.5907	16,345.5907	0.6262		16,361.2461
<b>Total</b>	<b>24.4237</b>	<b>19.0744</b>	<b>84.4641</b>	<b>0.1798</b>	<b>19.8919</b>	<b>0.5664</b>	<b>20.4583</b>	<b>5.3108</b>	<b>0.5605</b>	<b>5.8713</b>	<b>0.0000</b>	<b>19,863.9302</b>	<b>19,863.9302</b>	<b>0.7739</b>	<b>0.0629</b>	<b>19,902.0293</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2025	4/2/2025	5	43	
2	Grading	Grading	4/28/2025	10/28/2025	5	132	
3	Building Construction	Building Construction	1/1/2026	9/29/2028	5	717	
4	Paving	Paving	10/2/2025	12/31/2025	5	65	
5	Architectural Coating	Architectural Coating	4/1/2026	12/29/2028	5	718	
6	Site Preparation and Grading for Rancho Cordova Widening	Site Preparation	1/1/2027	10/1/2027	5	196	
7	Paving for Rancho Cordova Widening	Paving	10/2/2027	1/31/2028	5	86	
8	Site Preparation for Park - Lot D	Site Preparation	4/1/2028	3/30/2029	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 104.38

Acres of Paving: 0

Residential Indoor: 1,606,635; Residential Outdoor: 535,545; Non-Residential Indoor: 10,500; Non-Residential Outdoor: 3,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

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

**Trips and VMT**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	3,181.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	535.00	145.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	107.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving for Rancho Cordova Widening	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation and Grading for Rancho C	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Park - Lot D	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.2 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					18.1887	0.0000	18.1887	9.9492	0.0000	9.9492			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.1887</b>	<b>1.0868</b>	<b>19.2755</b>	<b>9.9492</b>	<b>0.9999</b>	<b>10.9491</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	8.3845	1.9175	0.0227	0.4509	0.0126	0.4636	0.1234	0.0121	0.1355		2,441.1346	2,441.1346	0.1845		2,445.7464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0303	0.3301	1.0400e-003	0.1369	8.4000e-004	0.1378	0.0363	7.8000e-004	0.0371		103.7508	103.7508	2.1100e-003		103.8036
<b>Total</b>	<b>0.2407</b>	<b>8.4147</b>	<b>2.2476</b>	<b>0.0238</b>	<b>0.5879</b>	<b>0.0135</b>	<b>0.6013</b>	<b>0.1598</b>	<b>0.0129</b>	<b>0.1726</b>		<b>2,544.8854</b>	<b>2,544.8854</b>	<b>0.1866</b>		<b>2,549.5500</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.2 Site Preparation - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1849	0.0000	8.1849	4.4772	0.0000	4.4772			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1849</b>	<b>1.0868</b>	<b>9.2717</b>	<b>4.4772</b>	<b>0.9999</b>	<b>5.4770</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	8.3845	1.9175	0.0227	0.4201	0.0126	0.4328	0.1159	0.0121	0.1280		2,441.1346	2,441.1346	0.1845		2,445.7464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0303	0.3301	1.0400e-003	0.1262	8.4000e-004	0.1271	0.0337	7.8000e-004	0.0345		103.7508	103.7508	2.1100e-003		103.8036
<b>Total</b>	<b>0.2407</b>	<b>8.4147</b>	<b>2.2476</b>	<b>0.0238</b>	<b>0.5463</b>	<b>0.0135</b>	<b>0.5598</b>	<b>0.1496</b>	<b>0.0129</b>	<b>0.1625</b>		<b>2,544.8854</b>	<b>2,544.8854</b>	<b>0.1866</b>		<b>2,549.5500</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.3 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.8607	0.0000	6.8607	3.4008	0.0000	3.4008			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>6.8607</b>	<b>1.1309</b>	<b>7.9916</b>	<b>3.4008</b>	<b>1.0404</b>	<b>4.4412</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0576	0.0336	0.3667	1.1600e-003	0.1521	9.4000e-004	0.1531	0.0404	8.6000e-004	0.0412		115.2787	115.2787	2.3400e-003		115.3373
<b>Total</b>	<b>0.0576</b>	<b>0.0336</b>	<b>0.3667</b>	<b>1.1600e-003</b>	<b>0.1521</b>	<b>9.4000e-004</b>	<b>0.1531</b>	<b>0.0404</b>	<b>8.6000e-004</b>	<b>0.0412</b>		<b>115.2787</b>	<b>115.2787</b>	<b>2.3400e-003</b>		<b>115.3373</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.3 Grading - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0873	0.0000	3.0873	1.5304	0.0000	1.5304			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.0873</b>	<b>1.1309</b>	<b>4.2182</b>	<b>1.5304</b>	<b>1.0404</b>	<b>2.5708</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0576	0.0336	0.3667	1.1600e-003	0.1402	9.4000e-004	0.1412	0.0374	8.6000e-004	0.0383		115.2787	115.2787	2.3400e-003		115.3373
<b>Total</b>	<b>0.0576</b>	<b>0.0336</b>	<b>0.3667</b>	<b>1.1600e-003</b>	<b>0.1402</b>	<b>9.4000e-004</b>	<b>0.1412</b>	<b>0.0374</b>	<b>8.6000e-004</b>	<b>0.0383</b>		<b>115.2787</b>	<b>115.2787</b>	<b>2.3400e-003</b>		<b>115.3373</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3065	11.2157	2.9571	0.0333	0.8721	0.0151	0.8872	0.2509	0.0145	0.2654		3,534.071 5	3,534.071 5	0.1885		3,538.784 1
Worker	1.4633	0.8218	9.1197	0.0298	4.0697	0.0243	4.0941	1.0795	0.0224	1.1019		2,969.149 3	2,969.149 3	0.0570		2,970.574 7
<b>Total</b>	<b>1.7697</b>	<b>12.0374</b>	<b>12.0768</b>	<b>0.0631</b>	<b>4.9418</b>	<b>0.0395</b>	<b>4.9813</b>	<b>1.3305</b>	<b>0.0369</b>	<b>1.3673</b>		<b>6,503.220 8</b>	<b>6,503.220 8</b>	<b>0.2455</b>		<b>6,509.358 8</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.4 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3065	11.2157	2.9571	0.0333	0.8160	0.0151	0.8311	0.2372	0.0145	0.2516		3,534.071 5	3,534.071 5	0.1885		3,538.784 1
Worker	1.4633	0.8218	9.1197	0.0298	3.7514	0.0243	3.7758	1.0014	0.0224	1.0238		2,969.149 3	2,969.149 3	0.0570		2,970.574 7
<b>Total</b>	<b>1.7697</b>	<b>12.0374</b>	<b>12.0768</b>	<b>0.0631</b>	<b>4.5674</b>	<b>0.0395</b>	<b>4.6069</b>	<b>1.2386</b>	<b>0.0369</b>	<b>1.2754</b>		<b>6,503.220 8</b>	<b>6,503.220 8</b>	<b>0.2455</b>		<b>6,509.358 8</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2958	11.0272	2.8324	0.0331	0.8720	0.0144	0.8864	0.2509	0.0137	0.2646		3,516.280 4	3,516.280 4	0.1865		3,520.942 6
Worker	1.3868	0.7519	8.4965	0.0288	4.0697	0.0231	4.0929	1.0795	0.0213	1.1008		2,866.558 1	2,866.558 1	0.0519		2,867.855 1
<b>Total</b>	<b>1.6826</b>	<b>11.7791</b>	<b>11.3289</b>	<b>0.0618</b>	<b>4.9418</b>	<b>0.0375</b>	<b>4.9792</b>	<b>1.3304</b>	<b>0.0350</b>	<b>1.3655</b>		<b>6,382.838 5</b>	<b>6,382.838 5</b>	<b>0.2384</b>		<b>6,388.797 7</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.4 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2958	11.0272	2.8324	0.0331	0.8159	0.0144	0.8303	0.2371	0.0137	0.2509		3,516.280 4	3,516.280 4	0.1865		3,520.942 6
Worker	1.3868	0.7519	8.4965	0.0288	3.7514	0.0231	3.7746	1.0014	0.0213	1.0227		2,866.558 1	2,866.558 1	0.0519		2,867.855 1
<b>Total</b>	<b>1.6826</b>	<b>11.7791</b>	<b>11.3289</b>	<b>0.0618</b>	<b>4.5674</b>	<b>0.0375</b>	<b>4.6049</b>	<b>1.2385</b>	<b>0.0350</b>	<b>1.2736</b>		<b>6,382.838 5</b>	<b>6,382.838 5</b>	<b>0.2384</b>		<b>6,388.797 7</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.4 Building Construction - 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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2863	10.8672	2.7268	0.0329	0.8720	0.0137	0.8857	0.2509	0.0131	0.2640		3,501.167 1	3,501.167 1	0.1844		3,505.777 8
Worker	1.3066	0.6898	7.9482	0.0278	4.0697	0.0216	4.0913	1.0795	0.0199	1.0994		2,775.460 9	2,775.460 9	0.0475		2,776.647 5
<b>Total</b>	<b>1.5929</b>	<b>11.5571</b>	<b>10.6750</b>	<b>0.0608</b>	<b>4.9417</b>	<b>0.0353</b>	<b>4.9770</b>	<b>1.3304</b>	<b>0.0330</b>	<b>1.3634</b>		<b>6,276.627 9</b>	<b>6,276.627 9</b>	<b>0.2319</b>		<b>6,282.425 3</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.4 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2863	10.8672	2.7268	0.0329	0.8159	0.0137	0.8296	0.2371	0.0131	0.2502		3,501.167 1	3,501.167 1	0.1844		3,505.777 8
Worker	1.3066	0.6898	7.9482	0.0278	3.7514	0.0216	3.7730	1.0014	0.0199	1.0213		2,775.460 9	2,775.460 9	0.0475		2,776.647 5
<b>Total</b>	<b>1.5929</b>	<b>11.5571</b>	<b>10.6750</b>	<b>0.0608</b>	<b>4.5673</b>	<b>0.0353</b>	<b>4.6026</b>	<b>1.2385</b>	<b>0.0330</b>	<b>1.2715</b>		<b>6,276.627 9</b>	<b>6,276.627 9</b>	<b>0.2319</b>		<b>6,282.425 3</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0432	0.0252	0.2751	8.7000e-004	0.3124	7.0000e-004	0.3131	0.0790	6.5000e-004	0.0796		86.4590	86.4590	1.7600e-003		86.5030
<b>Total</b>	<b>0.0432</b>	<b>0.0252</b>	<b>0.2751</b>	<b>8.7000e-004</b>	<b>0.3124</b>	<b>7.0000e-004</b>	<b>0.3131</b>	<b>0.0790</b>	<b>6.5000e-004</b>	<b>0.0796</b>		<b>86.4590</b>	<b>86.4590</b>	<b>1.7600e-003</b>		<b>86.5030</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0432	0.0252	0.2751	8.7000e-004	0.2857	7.0000e-004	0.2864	0.0724	6.5000e-004	0.0730		86.4590	86.4590	1.7600e-003		86.5030
<b>Total</b>	<b>0.0432</b>	<b>0.0252</b>	<b>0.2751</b>	<b>8.7000e-004</b>	<b>0.2857</b>	<b>7.0000e-004</b>	<b>0.2864</b>	<b>0.0724</b>	<b>6.5000e-004</b>	<b>0.0730</b>		<b>86.4590</b>	<b>86.4590</b>	<b>1.7600e-003</b>		<b>86.5030</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2927	0.1644	1.8240	5.9600e-003	0.8140	4.8600e-003	0.8188	0.2159	4.4800e-003	0.2204		593.8299	593.8299	0.0114		594.1149
<b>Total</b>	<b>0.2927</b>	<b>0.1644</b>	<b>1.8240</b>	<b>5.9600e-003</b>	<b>0.8140</b>	<b>4.8600e-003</b>	<b>0.8188</b>	<b>0.2159</b>	<b>4.4800e-003</b>	<b>0.2204</b>		<b>593.8299</b>	<b>593.8299</b>	<b>0.0114</b>		<b>594.1149</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.6 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2927	0.1644	1.8240	5.9600e-003	0.7503	4.8600e-003	0.7552	0.2003	4.4800e-003	0.2048		593.8299	593.8299	0.0114		594.1149
<b>Total</b>	<b>0.2927</b>	<b>0.1644</b>	<b>1.8240</b>	<b>5.9600e-003</b>	<b>0.7503</b>	<b>4.8600e-003</b>	<b>0.7552</b>	<b>0.2003</b>	<b>4.4800e-003</b>	<b>0.2048</b>		<b>593.8299</b>	<b>593.8299</b>	<b>0.0114</b>		<b>594.1149</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2774	0.1504	1.6993	5.7500e-003	0.8140	4.6200e-003	0.8186	0.2159	4.2600e-003	0.2202		573.3116	573.3116	0.0104		573.5710
<b>Total</b>	<b>0.2774</b>	<b>0.1504</b>	<b>1.6993</b>	<b>5.7500e-003</b>	<b>0.8140</b>	<b>4.6200e-003</b>	<b>0.8186</b>	<b>0.2159</b>	<b>4.2600e-003</b>	<b>0.2202</b>		<b>573.3116</b>	<b>573.3116</b>	<b>0.0104</b>		<b>573.5710</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.6 Architectural Coating - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2774	0.1504	1.6993	5.7500e-003	0.7503	4.6200e-003	0.7549	0.2003	4.2600e-003	0.2045		573.3116	573.3116	0.0104		573.5710
<b>Total</b>	<b>0.2774</b>	<b>0.1504</b>	<b>1.6993</b>	<b>5.7500e-003</b>	<b>0.7503</b>	<b>4.6200e-003</b>	<b>0.7549</b>	<b>0.2003</b>	<b>4.2600e-003</b>	<b>0.2045</b>		<b>573.3116</b>	<b>573.3116</b>	<b>0.0104</b>		<b>573.5710</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2613	0.1380	1.5896	5.5700e-003	0.8140	4.3200e-003	0.8183	0.2159	3.9700e-003	0.2199		555.0922	555.0922	9.4900e-003		555.3295
<b>Total</b>	<b>0.2613</b>	<b>0.1380</b>	<b>1.5896</b>	<b>5.5700e-003</b>	<b>0.8140</b>	<b>4.3200e-003</b>	<b>0.8183</b>	<b>0.2159</b>	<b>3.9700e-003</b>	<b>0.2199</b>		<b>555.0922</b>	<b>555.0922</b>	<b>9.4900e-003</b>		<b>555.3295</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.6 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.9191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>14.0899</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2613	0.1380	1.5896	5.5700e-003	0.7503	4.3200e-003	0.7546	0.2003	3.9700e-003	0.2043		555.0922	555.0922	9.4900e-003		555.3295
<b>Total</b>	<b>0.2613</b>	<b>0.1380</b>	<b>1.5896</b>	<b>5.5700e-003</b>	<b>0.7503</b>	<b>4.3200e-003</b>	<b>0.7546</b>	<b>0.2003</b>	<b>3.9700e-003</b>	<b>0.2043</b>		<b>555.0922</b>	<b>555.0922</b>	<b>9.4900e-003</b>		<b>555.3295</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.7 Site Preparation and Grading for Rancho Cordova Widening - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0467	0.0253	0.2859	9.7000e-004	0.1369	7.8000e-004	0.1377	0.0363	7.2000e-004	0.0370		96.4449	96.4449	1.7500e-003		96.4886
<b>Total</b>	<b>0.0467</b>	<b>0.0253</b>	<b>0.2859</b>	<b>9.7000e-004</b>	<b>0.1369</b>	<b>7.8000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>7.2000e-004</b>	<b>0.0370</b>		<b>96.4449</b>	<b>96.4449</b>	<b>1.7500e-003</b>		<b>96.4886</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.7 Site Preparation and Grading for Rancho Cordova Widening - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0467	0.0253	0.2859	9.7000e-004	0.1262	7.8000e-004	0.1270	0.0337	7.2000e-004	0.0344		96.4449	96.4449	1.7500e-003		96.4886
<b>Total</b>	<b>0.0467</b>	<b>0.0253</b>	<b>0.2859</b>	<b>9.7000e-004</b>	<b>0.1262</b>	<b>7.8000e-004</b>	<b>0.1270</b>	<b>0.0337</b>	<b>7.2000e-004</b>	<b>0.0344</b>		<b>96.4449</b>	<b>96.4449</b>	<b>1.7500e-003</b>		<b>96.4886</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.8 Paving for Rancho Cordova Widening - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0211	0.2382	8.1000e-004	0.1141	6.5000e-004	0.1148	0.0303	6.0000e-004	0.0309		80.3708	80.3708	1.4500e-003		80.4072
<b>Total</b>	<b>0.0389</b>	<b>0.0211</b>	<b>0.2382</b>	<b>8.1000e-004</b>	<b>0.1141</b>	<b>6.5000e-004</b>	<b>0.1148</b>	<b>0.0303</b>	<b>6.0000e-004</b>	<b>0.0309</b>		<b>80.3708</b>	<b>80.3708</b>	<b>1.4500e-003</b>		<b>80.4072</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.8 Paving for Rancho Cordova Widening - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0389	0.0211	0.2382	8.1000e-004	0.1052	6.5000e-004	0.1058	0.0281	6.0000e-004	0.0287		80.3708	80.3708	1.4500e-003		80.4072
<b>Total</b>	<b>0.0389</b>	<b>0.0211</b>	<b>0.2382</b>	<b>8.1000e-004</b>	<b>0.1052</b>	<b>6.5000e-004</b>	<b>0.1058</b>	<b>0.0281</b>	<b>6.0000e-004</b>	<b>0.0287</b>		<b>80.3708</b>	<b>80.3708</b>	<b>1.4500e-003</b>		<b>80.4072</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.8 Paving for Rancho Cordova Widening - 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	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0193	0.2229	7.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		77.8167	77.8167	1.3300e-003		77.8499
<b>Total</b>	<b>0.0366</b>	<b>0.0193</b>	<b>0.2229</b>	<b>7.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>77.8167</b>	<b>77.8167</b>	<b>1.3300e-003</b>		<b>77.8499</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.8 Paving for Rancho Cordova Widening - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0193	0.2229	7.8000e-004	0.1052	6.1000e-004	0.1058	0.0281	5.6000e-004	0.0286		77.8167	77.8167	1.3300e-003		77.8499
<b>Total</b>	<b>0.0366</b>	<b>0.0193</b>	<b>0.2229</b>	<b>7.8000e-004</b>	<b>0.1052</b>	<b>6.1000e-004</b>	<b>0.1058</b>	<b>0.0281</b>	<b>5.6000e-004</b>	<b>0.0286</b>		<b>77.8167</b>	<b>77.8167</b>	<b>1.3300e-003</b>		<b>77.8499</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.9 Site Prepration for Park - Lot D - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0232	0.2674	9.4000e-004	0.1369	7.3000e-004	0.1377	0.0363	6.7000e-004	0.0370		93.3800	93.3800	1.6000e-003		93.4199
<b>Total</b>	<b>0.0440</b>	<b>0.0232</b>	<b>0.2674</b>	<b>9.4000e-004</b>	<b>0.1369</b>	<b>7.3000e-004</b>	<b>0.1377</b>	<b>0.0363</b>	<b>6.7000e-004</b>	<b>0.0370</b>		<b>93.3800</b>	<b>93.3800</b>	<b>1.6000e-003</b>		<b>93.4199</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.9 Site Prepration for Park - Lot D - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0232	0.2674	9.4000e-004	0.1262	7.3000e-004	0.1269	0.0337	6.7000e-004	0.0344		93.3800	93.3800	1.6000e-003		93.4199
<b>Total</b>	<b>0.0440</b>	<b>0.0232</b>	<b>0.2674</b>	<b>9.4000e-004</b>	<b>0.1262</b>	<b>7.3000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>6.7000e-004</b>	<b>0.0344</b>		<b>93.3800</b>	<b>93.3800</b>	<b>1.6000e-003</b>		<b>93.4199</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.9 Site Prepration for Park - Lot D - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.0868</b>	<b>19.1531</b>	<b>9.9307</b>	<b>0.9999</b>	<b>10.9305</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0213	0.2497	9.1000e-004	0.1369	6.8000e-004	0.1376	0.0363	6.2000e-004	0.0369		90.6626	90.6626	1.4600e-003		90.6990
<b>Total</b>	<b>0.0410</b>	<b>0.0213</b>	<b>0.2497</b>	<b>9.1000e-004</b>	<b>0.1369</b>	<b>6.8000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>6.2000e-004</b>	<b>0.0369</b>		<b>90.6626</b>	<b>90.6626</b>	<b>1.4600e-003</b>		<b>90.6990</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**3.9 Site Prepration for Park - Lot D - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.1298</b>	<b>1.0868</b>	<b>9.2166</b>	<b>4.4688</b>	<b>0.9999</b>	<b>5.4687</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0213	0.2497	9.1000e-004	0.1262	6.8000e-004	0.1269	0.0337	6.2000e-004	0.0343		90.6626	90.6626	1.4600e-003		90.6990
<b>Total</b>	<b>0.0410</b>	<b>0.0213</b>	<b>0.2497</b>	<b>9.1000e-004</b>	<b>0.1262</b>	<b>6.8000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>6.2000e-004</b>	<b>0.0343</b>		<b>90.6626</b>	<b>90.6626</b>	<b>1.4600e-003</b>		<b>90.6990</b>

**4.0 Operational Detail - Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7932	15.8365	35.7184	0.1601	19.8919	0.0841	19.9760	5.3108	0.0782	5.3890		16,345.5907	16,345.5907	0.6262		16,361.2461
Unmitigated	2.7932	15.8365	35.7184	0.1601	19.8919	0.0841	19.9760	5.3108	0.0782	5.3890		16,345.5907	16,345.5907	0.6262		16,361.2461

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	106.40	102.24	93.76	266,875	266,875
City Park	1.93	23.28	17.13	13,200	13,200
City Park	2.99	35.95	26.45	20,380	20,380
City Park	17.20	207.03	152.33	117,380	117,380
Retirement Community	708.00	598.85	575.25	1,728,128	1,728,128
Single Family Housing	2,551.36	2,655.88	2310.16	6,496,963	6,496,963
<b>Total</b>	<b>3,387.88</b>	<b>3,623.22</b>	<b>3,175.08</b>	<b>8,642,925</b>	<b>8,642,925</b>

**4.3 Trip Type Information**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218
NaturalGas Unmitigated	0.3146	2.6887	1.1441	0.0172		0.2174	0.2174		0.2174	0.2174		3,432.3252	3,432.3252	0.0658	0.0629	3,452.7218

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	427.314	4.6100e-003	0.0394	0.0168	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.2722	50.2722	9.6000e-004	9.2000e-004	50.5710
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9778.42	0.1055	0.9012	0.3835	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.4021	1,150.4021	0.0221	0.0211	1,157.2383
Single Family Housing	18969	0.2046	1.7481	0.7439	0.0112		0.1413	0.1413		0.1413	0.1413		2,231.6509	2,231.6509	0.0428	0.0409	2,244.9125
<b>Total</b>		<b>0.3146</b>	<b>2.6887</b>	<b>1.1441</b>	<b>0.0172</b>		<b>0.2174</b>	<b>0.2174</b>		<b>0.2174</b>	<b>0.2174</b>		<b>3,432.3252</b>	<b>3,432.3252</b>	<b>0.0658</b>	<b>0.0629</b>	<b>3,452.7218</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0.427314	4.6100e-003	0.0394	0.0168	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.2722	50.2722	9.6000e-004	9.2000e-004	50.5710
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.77842	0.1055	0.9012	0.3835	5.7500e-003		0.0729	0.0729		0.0729	0.0729		1,150.4021	1,150.4021	0.0221	0.0211	1,157.2383
Single Family Housing	18.969	0.2046	1.7481	0.7439	0.0112		0.1413	0.1413		0.1413	0.1413		2,231.6509	2,231.6509	0.0428	0.0409	2,244.9125
<b>Total</b>		<b>0.3146</b>	<b>2.6887</b>	<b>1.1441</b>	<b>0.0172</b>		<b>0.2174</b>	<b>0.2174</b>		<b>0.2174</b>	<b>0.2174</b>		<b>3,432.3252</b>	<b>3,432.3252</b>	<b>0.0658</b>	<b>0.0629</b>	<b>3,452.7218</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615
Unmitigated	21.3159	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649	0.0000	86.0143	86.0143	0.0819	0.0000	88.0615

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1545					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	1.4233	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649		86.0143	86.0143	0.0819		88.0615
<b>Total</b>	<b>21.3159</b>	<b>0.5492</b>	<b>47.6015</b>	<b>2.5200e-003</b>		<b>0.2649</b>	<b>0.2649</b>		<b>0.2649</b>	<b>0.2649</b>	<b>0.0000</b>	<b>86.0143</b>	<b>86.0143</b>	<b>0.0819</b>	<b>0.0000</b>	<b>88.0615</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 3) - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.7381					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1545					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	1.4233	0.5492	47.6015	2.5200e-003		0.2649	0.2649		0.2649	0.2649		86.0143	86.0143	0.0819		88.0615
<b>Total</b>	<b>21.3159</b>	<b>0.5492</b>	<b>47.6015</b>	<b>2.5200e-003</b>		<b>0.2649</b>	<b>0.2649</b>		<b>0.2649</b>	<b>0.2649</b>	<b>0.0000</b>	<b>86.0143</b>	<b>86.0143</b>	<b>0.0819</b>	<b>0.0000</b>	<b>88.0615</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Construction Only - Phase 4)  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	22.00	Dwelling Unit	0.73	22,000.00	45

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 4 of March 2030 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 4

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

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Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 10.66 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill is 25,451 cy.

Architectural Coating - Assumes interior coatings use flat coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	459.00
tblConstructionPhase	NumDays	20.00	108.00
tblGrading	AcresOfGrading	42.50	10.66
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	4.40	0.73
tblLandUse	Population	574.00	621.00
tblLandUse	Population	59.00	45.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripNumber	2,516.00	0.00

## 2.0 Emissions Summary

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**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					
2030	0.1686	0.8434	1.4955	3.5300e-003	0.6687	0.0297	0.6984	0.3543	0.0297	0.3840	0.0000	304.2583	304.2583	0.0134	0.0000	304.5940
2031	0.1637	0.9744	1.8368	4.4400e-003	0.1381	0.0153	0.1534	0.0371	0.0153	0.0523	0.0000	388.3836	388.3836	0.0141	0.0000	388.7355
2032	0.2144	1.2916	2.4254	5.8800e-003	0.1837	0.0203	0.2040	0.0493	0.0203	0.0696	0.0000	514.2273	514.2273	0.0186	0.0000	514.6916
2033	0.9368	0.0476	0.1170	2.5000e-004	0.0135	1.1500e-003	0.0146	3.5900e-003	1.1400e-003	4.7300e-003	0.0000	21.6710	21.6710	6.6000e-004	0.0000	21.6874
<b>Maximum</b>	<b>0.9368</b>	<b>1.2916</b>	<b>2.4254</b>	<b>5.8800e-003</b>	<b>0.6687</b>	<b>0.0297</b>	<b>0.6984</b>	<b>0.3543</b>	<b>0.0297</b>	<b>0.3840</b>	<b>0.0000</b>	<b>514.2273</b>	<b>514.2273</b>	<b>0.0186</b>	<b>0.0000</b>	<b>514.6916</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.1686	0.8434	1.4955	3.5300e-003	0.3180	0.0297	0.3477	0.1638	0.0297	0.1935	0.0000	304.2580	304.2580	0.0134	0.0000	304.5936
2031	0.1637	0.9744	1.8368	4.4400e-003	0.1276	0.0153	0.1429	0.0345	0.0153	0.0498	0.0000	388.3833	388.3833	0.0141	0.0000	388.7352
2032	0.2144	1.2916	2.4254	5.8800e-003	0.1696	0.0203	0.1900	0.0459	0.0203	0.0661	0.0000	514.2269	514.2269	0.0186	0.0000	514.6912
2033	0.9368	0.0476	0.1170	2.5000e-004	0.0124	1.1500e-003	0.0136	3.3300e-003	1.1400e-003	4.4700e-003	0.0000	21.6710	21.6710	6.6000e-004	0.0000	21.6874
<b>Maximum</b>	<b>0.9368</b>	<b>1.2916</b>	<b>2.4254</b>	<b>5.8800e-003</b>	<b>0.3180</b>	<b>0.0297</b>	<b>0.3477</b>	<b>0.1638</b>	<b>0.0297</b>	<b>0.1935</b>	<b>0.0000</b>	<b>514.2269</b>	<b>514.2269</b>	<b>0.0186</b>	<b>0.0000</b>	<b>514.6912</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>37.48</b>	<b>0.00</b>	<b>35.15</b>	<b>44.29</b>	<b>0.00</b>	<b>38.53</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2030	5-31-2030	0.4434	0.4434
2	6-1-2030	8-31-2030	0.3751	0.3751
3	9-1-2030	11-30-2030	0.1884	0.1884
5	3-1-2031	5-31-2031	0.2519	0.2519
6	6-1-2031	8-31-2031	0.3800	0.3800
7	9-1-2031	11-30-2031	0.3765	0.3765
8	12-1-2031	2-29-2032	0.3754	0.3754
9	3-1-2032	5-31-2032	0.3783	0.3783

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10	6-1-2032	8-31-2032	0.3780	0.3780
11	9-1-2032	11-30-2032	0.3745	0.3745
12	12-1-2032	2-28-2033	0.5054	0.5054
13	3-1-2033	5-31-2033	0.5992	0.5992
14	6-1-2033	8-31-2033	0.0065	0.0065
		Highest	0.5992	0.5992

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	1.1467	0.0281	2.4355	1.3000e-004		0.0136	0.0136		0.0136	0.0136	0.0000	3.9924	3.9924	3.8000e-003	0.0000	4.0874
Energy	0.0127	0.1088	0.0463	6.9000e-004		8.8000e-003	8.8000e-003		8.8000e-003	8.8000e-003	0.0000	398.6816	398.6816	0.0158	5.0800e-003	400.5913
Mobile	0.2136	1.1087	2.4964	0.0118	1.3826	6.0100e-003	1.3886	0.3702	5.5900e-003	0.3758	0.0000	1,089.6171	1,089.6171	0.0397	0.0000	1,090.6097
Waste						0.0000	0.0000		0.0000	0.0000	22.1301	0.0000	22.1301	1.3079	0.0000	54.8263
Water						0.0000	0.0000		0.0000	0.0000	5.4632	29.7243	35.1875	0.0203	0.0122	39.3246
<b>Total</b>	<b>1.3731</b>	<b>1.2457</b>	<b>4.9782</b>	<b>0.0126</b>	<b>1.3826</b>	<b>0.0284</b>	<b>1.4109</b>	<b>0.3702</b>	<b>0.0279</b>	<b>0.3981</b>	<b>27.5933</b>	<b>1,522.0154</b>	<b>1,549.6087</b>	<b>1.3874</b>	<b>0.0173</b>	<b>1,589.4393</b>





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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,057.243 0
<b>Total</b>	<b>528.6770</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2030	4/26/2030	5	41	
2	Grading and improvements	Grading	4/28/2030	8/23/2030	5	85	
3	Paving	Paving	8/2/2030	10/31/2030	5	65	
4	Building Construction	Building Construction	4/1/2031	12/31/2032	5	459	
5	Architectural Coating	Architectural Coating	1/2/2033	6/1/2033	5	108	

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

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

**Acres of Paving: 0**

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**Residential Indoor: 479,925; Residential Outdoor: 159,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0  
(Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**

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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 for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	171.00	25.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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					
Fugitive Dust					0.3704	0.0000	0.3704	0.2036	0.0000	0.2036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0500	0.2802	0.3340	9.5000e-004	8.9500e-003	8.9500e-003	8.9500e-003	8.9500e-003	8.9500e-003	8.9500e-003	0.0000	82.0095	82.0095	4.0500e-003	0.0000	82.1106
<b>Total</b>	<b>0.0500</b>	<b>0.2802</b>	<b>0.3340</b>	<b>9.5000e-004</b>	<b>0.3704</b>	<b>8.9500e-003</b>	<b>0.3793</b>	<b>0.2036</b>	<b>8.9500e-003</b>	<b>0.2125</b>	<b>0.0000</b>	<b>82.0095</b>	<b>82.0095</b>	<b>4.0500e-003</b>	<b>0.0000</b>	<b>82.1106</b>

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**3.2 Site Preparation for Commercial and MFR - 2030**

**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	7.3000e-004	3.6000e-004	4.8200e-003	2.0000e-005	2.7100e-003	1.0000e-005	2.7200e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	1.6897	1.6897	3.0000e-005	0.0000	1.6903
<b>Total</b>	<b>7.3000e-004</b>	<b>3.6000e-004</b>	<b>4.8200e-003</b>	<b>2.0000e-005</b>	<b>2.7100e-003</b>	<b>1.0000e-005</b>	<b>2.7200e-003</b>	<b>7.2000e-004</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>1.6897</b>	<b>1.6897</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6903</b>

**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					0.1667	0.0000	0.1667	0.0916	0.0000	0.0916	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0500	0.2802	0.3340	9.5000e-004		8.9500e-003	8.9500e-003		8.9500e-003	8.9500e-003	0.0000	82.0094	82.0094	4.0500e-003	0.0000	82.1105
<b>Total</b>	<b>0.0500</b>	<b>0.2802</b>	<b>0.3340</b>	<b>9.5000e-004</b>	<b>0.1667</b>	<b>8.9500e-003</b>	<b>0.1756</b>	<b>0.0916</b>	<b>8.9500e-003</b>	<b>0.1006</b>	<b>0.0000</b>	<b>82.0094</b>	<b>82.0094</b>	<b>4.0500e-003</b>	<b>0.0000</b>	<b>82.1105</b>

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**3.2 Site Preparation for Commercial and MFR - 2030**

**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	7.3000e-004	3.6000e-004	4.8200e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5100e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.6897	1.6897	3.0000e-005	0.0000	1.6903
<b>Total</b>	<b>7.3000e-004</b>	<b>3.6000e-004</b>	<b>4.8200e-003</b>	<b>2.0000e-005</b>	<b>2.5000e-003</b>	<b>1.0000e-005</b>	<b>2.5100e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>1.6897</b>	<b>1.6897</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6903</b>

**3.3 Grading and improvements - 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					
Fugitive Dust					0.2616	0.0000	0.2616	0.1413	0.0000	0.1413	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0688	0.3294	0.6142	1.5400e-003		9.9500e-003	9.9500e-003		9.9500e-003	9.9500e-003	0.0000	132.6196	132.6196	5.5400e-003	0.0000	132.7581
<b>Total</b>	<b>0.0688</b>	<b>0.3294</b>	<b>0.6142</b>	<b>1.5400e-003</b>	<b>0.2616</b>	<b>9.9500e-003</b>	<b>0.2715</b>	<b>0.1413</b>	<b>9.9500e-003</b>	<b>0.1512</b>	<b>0.0000</b>	<b>132.6196</b>	<b>132.6196</b>	<b>5.5400e-003</b>	<b>0.0000</b>	<b>132.7581</b>

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**3.3 Grading and improvements - 2030**

**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	1.2500e-003	6.2000e-004	8.3200e-003	3.0000e-005	4.6800e-003	2.0000e-005	4.7000e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	2.9192	2.9192	4.0000e-005	0.0000	2.9203
<b>Total</b>	<b>1.2500e-003</b>	<b>6.2000e-004</b>	<b>8.3200e-003</b>	<b>3.0000e-005</b>	<b>4.6800e-003</b>	<b>2.0000e-005</b>	<b>4.7000e-003</b>	<b>1.2500e-003</b>	<b>2.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>2.9192</b>	<b>2.9192</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.9203</b>

**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					0.1177	0.0000	0.1177	0.0636	0.0000	0.0636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0688	0.3294	0.6142	1.5400e-003		9.9500e-003	9.9500e-003		9.9500e-003	9.9500e-003	0.0000	132.6195	132.6195	5.5400e-003	0.0000	132.7579
<b>Total</b>	<b>0.0688</b>	<b>0.3294</b>	<b>0.6142</b>	<b>1.5400e-003</b>	<b>0.1177</b>	<b>9.9500e-003</b>	<b>0.1277</b>	<b>0.0636</b>	<b>9.9500e-003</b>	<b>0.0735</b>	<b>0.0000</b>	<b>132.6195</b>	<b>132.6195</b>	<b>5.5400e-003</b>	<b>0.0000</b>	<b>132.7579</b>

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**3.3 Grading and improvements - 2030**

**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	1.2500e-003	6.2000e-004	8.3200e-003	3.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	2.9192	2.9192	4.0000e-005	0.0000	2.9203
<b>Total</b>	<b>1.2500e-003</b>	<b>6.2000e-004</b>	<b>8.3200e-003</b>	<b>3.0000e-005</b>	<b>4.3200e-003</b>	<b>2.0000e-005</b>	<b>4.3400e-003</b>	<b>1.1600e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>2.9192</b>	<b>2.9192</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.9203</b>

**3.4 Paving - 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	0.0450	0.2314	0.5151	9.1000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	78.3234	78.3234	3.6700e-003	0.0000	78.4152
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0450</b>	<b>0.2314</b>	<b>0.5151</b>	<b>9.1000e-004</b>		<b>0.0108</b>	<b>0.0108</b>		<b>0.0108</b>	<b>0.0108</b>	<b>0.0000</b>	<b>78.3234</b>	<b>78.3234</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>78.4152</b>



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**3.4 Paving - 2030**

**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	2.8700e-003	1.4200e-003	0.0191	7.0000e-005	0.0293	5.0000e-005	0.0294	7.4100e-003	5.0000e-005	7.4600e-003	0.0000	6.6969	6.6969	1.0000e-004	0.0000	6.6995
<b>Total</b>	<b>2.8700e-003</b>	<b>1.4200e-003</b>	<b>0.0191</b>	<b>7.0000e-005</b>	<b>0.0293</b>	<b>5.0000e-005</b>	<b>0.0294</b>	<b>7.4100e-003</b>	<b>5.0000e-005</b>	<b>7.4600e-003</b>	<b>0.0000</b>	<b>6.6969</b>	<b>6.6969</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>6.6995</b>

**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	0.0450	0.2314	0.5151	9.1000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	78.3233	78.3233	3.6700e-003	0.0000	78.4151
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0450</b>	<b>0.2314</b>	<b>0.5151</b>	<b>9.1000e-004</b>		<b>0.0108</b>	<b>0.0108</b>		<b>0.0108</b>	<b>0.0108</b>	<b>0.0000</b>	<b>78.3233</b>	<b>78.3233</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>78.4151</b>

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**3.4 Paving - 2030**

**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	2.8700e-003	1.4200e-003	0.0191	7.0000e-005	0.0268	5.0000e-005	0.0269	6.8000e-003	5.0000e-005	6.8500e-003	0.0000	6.6969	6.6969	1.0000e-004	0.0000	6.6995
<b>Total</b>	<b>2.8700e-003</b>	<b>1.4200e-003</b>	<b>0.0191</b>	<b>7.0000e-005</b>	<b>0.0268</b>	<b>5.0000e-005</b>	<b>0.0269</b>	<b>6.8000e-003</b>	<b>5.0000e-005</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>6.6969</b>	<b>6.6969</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>6.6995</b>

**3.5 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	0.1290	0.7816	1.5915	3.0500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	258.9181	258.9181	0.0104	0.0000	259.1778
<b>Total</b>	<b>0.1290</b>	<b>0.7816</b>	<b>1.5915</b>	<b>3.0500e-003</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0146</b>	<b>0.0146</b>	<b>0.0000</b>	<b>258.9181</b>	<b>258.9181</b>	<b>0.0104</b>	<b>0.0000</b>	<b>259.1778</b>

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**3.5 Building Construction - 2031**

**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	4.3100e-003	0.1779	0.0394	5.6000e-004	0.0144	1.9000e-004	0.0146	4.1600e-003	1.8000e-004	4.3400e-003	0.0000	54.1705	54.1705	2.6300e-003	0.0000	54.2363
Worker	0.0304	0.0149	0.2059	8.3000e-004	0.1237	5.5000e-004	0.1243	0.0329	5.0000e-004	0.0334	0.0000	75.2950	75.2950	1.0600e-003	0.0000	75.3215
<b>Total</b>	<b>0.0348</b>	<b>0.1928</b>	<b>0.2453</b>	<b>1.3900e-003</b>	<b>0.1381</b>	<b>7.4000e-004</b>	<b>0.1388</b>	<b>0.0371</b>	<b>6.8000e-004</b>	<b>0.0378</b>	<b>0.0000</b>	<b>129.4655</b>	<b>129.4655</b>	<b>3.6900e-003</b>	<b>0.0000</b>	<b>129.5577</b>

**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	0.1290	0.7816	1.5915	3.0500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	258.9178	258.9178	0.0104	0.0000	259.1775
<b>Total</b>	<b>0.1290</b>	<b>0.7816</b>	<b>1.5915</b>	<b>3.0500e-003</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0146</b>	<b>0.0146</b>	<b>0.0000</b>	<b>258.9178</b>	<b>258.9178</b>	<b>0.0104</b>	<b>0.0000</b>	<b>259.1775</b>

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**3.5 Building Construction - 2031**

**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	4.3100e-003	0.1779	0.0394	5.6000e-004	0.0135	1.9000e-004	0.0137	3.9300e-003	1.8000e-004	4.1200e-003	0.0000	54.1705	54.1705	2.6300e-003	0.0000	54.2363
Worker	0.0304	0.0149	0.2059	8.3000e-004	0.1141	5.5000e-004	0.1146	0.0305	5.0000e-004	0.0310	0.0000	75.2950	75.2950	1.0600e-003	0.0000	75.3215
<b>Total</b>	<b>0.0348</b>	<b>0.1928</b>	<b>0.2453</b>	<b>1.3900e-003</b>	<b>0.1276</b>	<b>7.4000e-004</b>	<b>0.1283</b>	<b>0.0345</b>	<b>6.8000e-004</b>	<b>0.0352</b>	<b>0.0000</b>	<b>129.4655</b>	<b>129.4655</b>	<b>3.6900e-003</b>	<b>0.0000</b>	<b>129.5577</b>

**3.5 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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6933</b>

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**3.5 Building Construction - 2032**

**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	5.6200e-003	0.2339	0.0514	7.4000e-004	0.0191	2.5000e-004	0.0194	5.5300e-003	2.4000e-004	5.7600e-003	0.0000	71.8635	71.8635	3.4700e-003	0.0000	71.9502
Worker	0.0373	0.0183	0.2574	1.0800e-003	0.1645	6.8000e-004	0.1652	0.0438	6.2000e-004	0.0444	0.0000	98.0159	98.0159	1.2900e-003	0.0000	98.0481
<b>Total</b>	<b>0.0429</b>	<b>0.2521</b>	<b>0.3088</b>	<b>1.8200e-003</b>	<b>0.1837</b>	<b>9.3000e-004</b>	<b>0.1846</b>	<b>0.0493</b>	<b>8.6000e-004</b>	<b>0.0501</b>	<b>0.0000</b>	<b>169.8794</b>	<b>169.8794</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>169.9983</b>

**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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6929</b>

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**3.5 Building Construction - 2032**

**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	5.6200e-003	0.2339	0.0514	7.4000e-004	0.0179	2.5000e-004	0.0182	5.2300e-003	2.4000e-004	5.4700e-003	0.0000	71.8635	71.8635	3.4700e-003	0.0000	71.9502
Worker	0.0373	0.0183	0.2574	1.0800e-003	0.1517	6.8000e-004	0.1524	0.0406	6.2000e-004	0.0412	0.0000	98.0159	98.0159	1.2900e-003	0.0000	98.0481
<b>Total</b>	<b>0.0429</b>	<b>0.2521</b>	<b>0.3088</b>	<b>1.8200e-003</b>	<b>0.1696</b>	<b>9.3000e-004</b>	<b>0.1706</b>	<b>0.0459</b>	<b>8.6000e-004</b>	<b>0.0467</b>	<b>0.0000</b>	<b>169.8794</b>	<b>169.8794</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>169.9983</b>

**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	0.9269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0600e-003	0.0462	0.0971	1.6000e-004		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	13.7876	13.7876	5.6000e-004	0.0000	13.8015
<b>Total</b>	<b>0.9339</b>	<b>0.0462</b>	<b>0.0971</b>	<b>1.6000e-004</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>13.7876</b>	<b>13.7876</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>13.8015</b>

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**3.6 Architectural Coating - 2033**

**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	2.8400e-003	1.3900e-003	0.0200	9.0000e-005	0.0135	5.0000e-005	0.0135	3.5900e-003	5.0000e-005	3.6300e-003	0.0000	7.8835	7.8835	1.0000e-004	0.0000	7.8859
<b>Total</b>	<b>2.8400e-003</b>	<b>1.3900e-003</b>	<b>0.0200</b>	<b>9.0000e-005</b>	<b>0.0135</b>	<b>5.0000e-005</b>	<b>0.0135</b>	<b>3.5900e-003</b>	<b>5.0000e-005</b>	<b>3.6300e-003</b>	<b>0.0000</b>	<b>7.8835</b>	<b>7.8835</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>7.8859</b>

**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	0.9269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0600e-003	0.0462	0.0971	1.6000e-004		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	13.7876	13.7876	5.6000e-004	0.0000	13.8015
<b>Total</b>	<b>0.9339</b>	<b>0.0462</b>	<b>0.0971</b>	<b>1.6000e-004</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>13.7876</b>	<b>13.7876</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>13.8015</b>

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**3.6 Architectural Coating - 2033**

**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	2.8400e-003	1.3900e-003	0.0200	9.0000e-005	0.0124	5.0000e-005	0.0125	3.3300e-003	5.0000e-005	3.3800e-003	0.0000	7.8835	7.8835	1.0000e-004	0.0000	7.8859
<b>Total</b>	<b>2.8400e-003</b>	<b>1.3900e-003</b>	<b>0.0200</b>	<b>9.0000e-005</b>	<b>0.0124</b>	<b>5.0000e-005</b>	<b>0.0125</b>	<b>3.3300e-003</b>	<b>5.0000e-005</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>7.8835</b>	<b>7.8835</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>7.8859</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2136	1.1087	2.4964	0.0118	1.3826	6.0100e-003	1.3886	0.3702	5.5900e-003	0.3758	0.0000	1,089.6171	1,089.6171	0.0397	0.0000	1,090.6097
Unmitigated	0.2136	1.1087	2.4964	0.0118	1.3826	6.0100e-003	1.3886	0.3702	5.5900e-003	0.3758	0.0000	1,089.6171	1,089.6171	0.0397	0.0000	1,090.6097

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,429.75	1,373.85	1259.90	3,586,137	3,586,137
Retirement Community	52.80	44.66	42.90	128,877	128,877
<b>Total</b>	<b>1,482.55</b>	<b>1,418.51</b>	<b>1,302.80</b>	<b>3,715,015</b>	<b>3,715,015</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	272.6356	272.6356	0.0134	2.7700e-003	273.7962
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	272.6356	272.6356	0.0134	2.7700e-003	273.7962
NaturalGas Mitigated	0.0127	0.1088	0.0463	6.9000e-004		8.8000e-003	8.8000e-003		8.8000e-003	8.8000e-003	0.0000	126.0460	126.0460	2.4200e-003	2.3100e-003	126.7951
NaturalGas Unmitigated	0.0127	0.1088	0.0463	6.9000e-004		8.8000e-003	8.8000e-003		8.8000e-003	8.8000e-003	0.0000	126.0460	126.0460	2.4200e-003	2.3100e-003	126.7951

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
Retirement Community	266172	1.4400e-003	0.0123	5.2200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.2039	14.2039	2.7000e-004	2.6000e-004	14.2884
<b>Total</b>		<b>0.0127</b>	<b>0.1088</b>	<b>0.0463</b>	<b>7.0000e-004</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>126.0460</b>	<b>126.0460</b>	<b>2.4100e-003</b>	<b>2.3100e-003</b>	<b>126.7951</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
Retirement Community	266172	1.4400e-003	0.0123	5.2200e-003	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	14.2039	14.2039	2.7000e-004	2.6000e-004	14.2884
<b>Total</b>		<b>0.0127</b>	<b>0.1088</b>	<b>0.0463</b>	<b>7.0000e-004</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>126.0460</b>	<b>126.0460</b>	<b>2.4100e-003</b>	<b>2.3100e-003</b>	<b>126.7951</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
Retirement Community	103070	27.5979	1.3600e-003	2.8000e-004	27.7154
<b>Total</b>		<b>272.6356</b>	<b>0.0134</b>	<b>2.7700e-003</b>	<b>273.7962</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
Retirement Community	103070	27.5979	1.3600e-003	2.8000e-004	27.7154
<b>Total</b>		<b>272.6356</b>	<b>0.0134</b>	<b>2.7700e-003</b>	<b>273.7962</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1467	0.0281	2.4355	1.3000e-004		0.0136	0.0136		0.0136	0.0136	0.0000	3.9924	3.9924	3.8000e-003	0.0000	4.0874
Unmitigated	1.1467	0.0281	2.4355	1.3000e-004		0.0136	0.0136		0.0136	0.0136	0.0000	3.9924	3.9924	3.8000e-003	0.0000	4.0874

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9256					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	0.0728	0.0281	2.4355	1.3000e-004		0.0136	0.0136		0.0136	0.0136	0.0000	3.9924	3.9924	3.8000e-003	0.0000	4.0874
<b>Total</b>	<b>1.1467</b>	<b>0.0281</b>	<b>2.4355</b>	<b>1.3000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0136</b>	<b>0.0136</b>	<b>0.0000</b>	<b>3.9924</b>	<b>3.9924</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>4.0874</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9256					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	0.0728	0.0281	2.4355	1.3000e-004		0.0136	0.0136		0.0136	0.0136	0.0000	3.9924	3.9924	3.8000e-003	0.0000	4.0874
<b>Total</b>	<b>1.1467</b>	<b>0.0281</b>	<b>2.4355</b>	<b>1.3000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0136</b>	<b>0.0136</b>	<b>0.0000</b>	<b>3.9924</b>	<b>3.9924</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>4.0874</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.1875	0.0203	0.0122	39.3246
Unmitigated	35.1875	0.0203	0.0122	39.3246

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
Retirement Community	1.43339 / 0.903658	3.2664	1.8800e-003	1.1300e-003	3.6504
<b>Total</b>		<b>35.1875</b>	<b>0.0203</b>	<b>0.0122</b>	<b>39.3246</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
Retirement Community	1.43339 / 0.903658	3.2664	1.8800e-003	1.1300e-003	3.6504
<b>Total</b>		<b>35.1875</b>	<b>0.0203</b>	<b>0.0122</b>	<b>39.3246</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.1301	1.3079	0.0000	54.8263
Unmitigated	22.1301	1.3079	0.0000	54.8263



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
Retirement Community	10.12	2.0543	0.1214	0.0000	5.0894
<b>Total</b>		<b>22.1301</b>	<b>1.3079</b>	<b>0.0000</b>	<b>54.8263</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
Retirement Community	10.12	2.0543	0.1214	0.0000	5.0894
<b>Total</b>		<b>22.1301</b>	<b>1.3079</b>	<b>0.0000</b>	<b>54.8263</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

### 10.0 Stationary Equipment

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#### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	528.6770	0.0000	0.0000	528.6770

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Annual

**11.1 Vegetation Land Change**

**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 284.8	- 1,057.243 0	0.0000	0.0000	- 1,057.243 0
<b>Total</b>		<b>- 1,057.243 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- 1,057.243 0</b>

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920 0</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Construction Only - Phase 4)**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	22.00	Dwelling Unit	0.73	22,000.00	45

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 4 of March 2030 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 4

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 10.66 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill is 25,451 cy.

Architectural Coating - Assumes interior coatings use flat coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	459.00
tblConstructionPhase	NumDays	20.00	108.00
tblGrading	AcresOfGrading	42.50	10.66
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	4.40	0.73
tblLandUse	Population	574.00	621.00
tblLandUse	Population	59.00	45.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripNumber	2,516.00	0.00

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	3.1377	14.9232	31.2422	0.0677	18.2032	0.5667	18.6405	9.9670	0.5666	10.4042	0.0000	6,431.284 2	6,431.284 2	0.2733	0.0000	6,438.117 4
2031	1.7063	9.8582	19.0507	0.0461	1.4511	0.1556	1.6067	0.3883	0.1551	0.5434	0.0000	4,442.510 2	4,442.510 2	0.1581	0.0000	4,446.463 0
2032	1.6774	9.8268	18.8986	0.0459	1.4511	0.1552	1.6063	0.3883	0.1547	0.5430	0.0000	4,421.314 5	4,421.314 5	0.1568	0.0000	4,425.233 5
2033	17.3550	0.8797	2.2450	4.7500e-003	0.2586	0.0213	0.2799	0.0686	0.0212	0.0898	0.0000	459.5436	459.5436	0.0137	0.0000	459.8848
<b>Maximum</b>	<b>17.3550</b>	<b>14.9232</b>	<b>31.2422</b>	<b>0.0677</b>	<b>18.2032</b>	<b>0.5667</b>	<b>18.6405</b>	<b>9.9670</b>	<b>0.5666</b>	<b>10.4042</b>	<b>0.0000</b>	<b>6,431.284 2</b>	<b>6,431.284 2</b>	<b>0.2733</b>	<b>0.0000</b>	<b>6,438.117 4</b>





The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Energy	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
Mobile	1.5374	6.0865	15.9394	0.0714	8.0538	0.0338	8.0876	2.1502	0.0314	2.1817		7,271.9791	7,271.9791	0.2487		7,278.1968
<b>Total</b>	<b>8.0742</b>	<b>6.9077</b>	<b>35.6772</b>	<b>0.0762</b>	<b>8.0538</b>	<b>0.1905</b>	<b>8.2443</b>	<b>2.1502</b>	<b>0.1881</b>	<b>2.3383</b>	<b>0.0000</b>	<b>8,068.5118</b>	<b>8,068.5118</b>	<b>0.2968</b>	<b>0.0140</b>	<b>8,080.0915</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Energy	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
Mobile	1.5374	6.0865	15.9394	0.0714	8.0538	0.0338	8.0876	2.1502	0.0314	2.1817		7,271.9791	7,271.9791	0.2487		7,278.1968
<b>Total</b>	<b>8.0742</b>	<b>6.9077</b>	<b>35.6772</b>	<b>0.0762</b>	<b>8.0538</b>	<b>0.1905</b>	<b>8.2443</b>	<b>2.1502</b>	<b>0.1881</b>	<b>2.3383</b>	<b>0.0000</b>	<b>8,068.5118</b>	<b>8,068.5118</b>	<b>0.2968</b>	<b>0.0140</b>	<b>8,080.0915</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2030	4/26/2030	5	41	
2	Grading and improvements	Grading	4/28/2030	8/23/2030	5	85	
3	Paving	Paving	8/2/2030	10/31/2030	5	65	
4	Building Construction	Building Construction	4/1/2031	12/31/2032	5	459	
5	Architectural Coating	Architectural Coating	1/2/2033	6/1/2033	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 479,925; Residential Outdoor: 159,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

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

**Trips and VMT**

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

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 for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	171.00	25.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**3.2 Site Preparation for Commercial and MFR - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0406	0.0159	0.2823	1.0100e-003	0.1369	6.3000e-004	0.1376	0.0363	5.8000e-004	0.0369		100.5142	100.5142	1.5400e-003		100.5527
<b>Total</b>	<b>0.0406</b>	<b>0.0159</b>	<b>0.2823</b>	<b>1.0100e-003</b>	<b>0.1369</b>	<b>6.3000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>5.8000e-004</b>	<b>0.0369</b>		<b>100.5142</b>	<b>100.5142</b>	<b>1.5400e-003</b>		<b>100.5527</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.4367</b>	<b>8.5665</b>	<b>4.4688</b>	<b>0.4367</b>	<b>4.9055</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

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**3.2 Site Preparation for Commercial and MFR - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0406	0.0159	0.2823	1.0100e-003	0.1262	6.3000e-004	0.1269	0.0337	5.8000e-004	0.0343		100.5142	100.5142	1.5400e-003		100.5527
<b>Total</b>	<b>0.0406</b>	<b>0.0159</b>	<b>0.2823</b>	<b>1.0100e-003</b>	<b>0.1262</b>	<b>6.3000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>5.8000e-004</b>	<b>0.0343</b>		<b>100.5142</b>	<b>100.5142</b>	<b>1.5400e-003</b>		<b>100.5527</b>

**3.3 Grading and improvements - 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	lb/day										lb/day					
Fugitive Dust					6.1551	0.0000	6.1551	3.3246	0.0000	3.3246			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.1551</b>	<b>0.2340</b>	<b>6.3891</b>	<b>3.3246</b>	<b>0.2340</b>	<b>3.5586</b>		<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0338	0.0132	0.2352	8.4000e-004	0.1141	5.2000e-004	0.1146	0.0303	4.8000e-004	0.0308		83.7618	83.7618	1.2800e-003		83.7939
<b>Total</b>	<b>0.0338</b>	<b>0.0132</b>	<b>0.2352</b>	<b>8.4000e-004</b>	<b>0.1141</b>	<b>5.2000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.8000e-004</b>	<b>0.0308</b>		<b>83.7618</b>	<b>83.7618</b>	<b>1.2800e-003</b>		<b>83.7939</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7698	0.0000	2.7698	1.4961	0.0000	1.4961			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>2.7698</b>	<b>0.2340</b>	<b>3.0038</b>	<b>1.4961</b>	<b>0.2340</b>	<b>1.7301</b>	<b>0.0000</b>	<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0338	0.0132	0.2352	8.4000e-004	0.1052	5.2000e-004	0.1057	0.0281	4.8000e-004	0.0286		83.7618	83.7618	1.2800e-003		83.7939
<b>Total</b>	<b>0.0338</b>	<b>0.0132</b>	<b>0.2352</b>	<b>8.4000e-004</b>	<b>0.1052</b>	<b>5.2000e-004</b>	<b>0.1057</b>	<b>0.0281</b>	<b>4.8000e-004</b>	<b>0.0286</b>		<b>83.7618</b>	<b>83.7618</b>	<b>1.2800e-003</b>		<b>83.7939</b>

**3.4 Paving - 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	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>



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**3.4 Paving - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1014	0.0396	0.7057	2.5200e-003	0.9373	1.5700e-003	0.9388	0.2368	1.4500e-003	0.2383		251.2855	251.2855	3.8500e-003		251.3817
<b>Total</b>	<b>0.1014</b>	<b>0.0396</b>	<b>0.7057</b>	<b>2.5200e-003</b>	<b>0.9373</b>	<b>1.5700e-003</b>	<b>0.9388</b>	<b>0.2368</b>	<b>1.4500e-003</b>	<b>0.2383</b>		<b>251.2855</b>	<b>251.2855</b>	<b>3.8500e-003</b>		<b>251.3817</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

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**3.4 Paving - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1014	0.0396	0.7057	2.5200e-003	0.8570	1.5700e-003	0.8585	0.2171	1.4500e-003	0.2186		251.2855	251.2855	3.8500e-003		251.3817
<b>Total</b>	<b>0.1014</b>	<b>0.0396</b>	<b>0.7057</b>	<b>2.5200e-003</b>	<b>0.8570</b>	<b>1.5700e-003</b>	<b>0.8585</b>	<b>0.2171</b>	<b>1.4500e-003</b>	<b>0.2186</b>		<b>251.2855</b>	<b>251.2855</b>	<b>3.8500e-003</b>		<b>251.3817</b>

**3.5 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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**3.5 Building Construction - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0430	1.7856	0.3768	5.7600e-003	0.1503	1.9300e-003	0.1522	0.0433	1.8400e-003	0.0451		612.6547	612.6547	0.0285		613.3673
Worker	0.3543	0.1380	2.5169	9.3500e-003	1.3008	5.5700e-003	1.3064	0.3451	5.1200e-003	0.3502		932.3088	932.3088	0.0134		932.6428
<b>Total</b>	<b>0.3972</b>	<b>1.9236</b>	<b>2.8937</b>	<b>0.0151</b>	<b>1.4511</b>	<b>7.5000e-003</b>	<b>1.4586</b>	<b>0.3883</b>	<b>6.9600e-003</b>	<b>0.3953</b>		<b>1,544.9635</b>	<b>1,544.9635</b>	<b>0.0419</b>		<b>1,546.0101</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.5 Building Construction - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0430	1.7856	0.3768	5.7600e-003	0.1407	1.9300e-003	0.1426	0.0409	1.8400e-003	0.0427		612.6547	612.6547	0.0285		613.3673
Worker	0.3543	0.1380	2.5169	9.3500e-003	1.1991	5.5700e-003	1.2046	0.3201	5.1200e-003	0.3252		932.3088	932.3088	0.0134		932.6428
<b>Total</b>	<b>0.3972</b>	<b>1.9236</b>	<b>2.8937</b>	<b>0.0151</b>	<b>1.3397</b>	<b>7.5000e-003</b>	<b>1.3472</b>	<b>0.3610</b>	<b>6.9600e-003</b>	<b>0.3679</b>		<b>1,544.9635</b>	<b>1,544.9635</b>	<b>0.0419</b>		<b>1,546.0101</b>

**3.5 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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.7652	0.3700	5.7400e-003	0.1503	1.8500e-003	0.1522	0.0432	1.7700e-003	0.0450		611.1096	611.1096	0.0283		611.8158
Worker	0.3262	0.1270	2.3717	9.1500e-003	1.3008	5.1800e-003	1.3060	0.3451	4.7600e-003	0.3498		912.6582	912.6582	0.0123		912.9648
<b>Total</b>	<b>0.3683</b>	<b>1.8922</b>	<b>2.7417</b>	<b>0.0149</b>	<b>1.4511</b>	<b>7.0300e-003</b>	<b>1.4581</b>	<b>0.3883</b>	<b>6.5300e-003</b>	<b>0.3948</b>		<b>1,523.7678</b>	<b>1,523.7678</b>	<b>0.0405</b>		<b>1,524.7806</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.5 Building Construction - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.7652	0.3700	5.7400e-003	0.1406	1.8500e-003	0.1425	0.0409	1.7700e-003	0.0426		611.1096	611.1096	0.0283		611.8158
Worker	0.3262	0.1270	2.3717	9.1500e-003	1.1991	5.1800e-003	1.2042	0.3201	4.7600e-003	0.3248		912.6582	912.6582	0.0123		912.9648
<b>Total</b>	<b>0.3683</b>	<b>1.8922</b>	<b>2.7417</b>	<b>0.0149</b>	<b>1.3397</b>	<b>7.0300e-003</b>	<b>1.3467</b>	<b>0.3610</b>	<b>6.5300e-003</b>	<b>0.3675</b>		<b>1,523.7678</b>	<b>1,523.7678</b>	<b>0.0405</b>		<b>1,524.7806</b>

**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	lb/day										lb/day					
Archit. Coating	17.1640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>17.2947</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**3.6 Architectural Coating - 2033**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0235	0.4472	1.7800e-003	0.2586	9.6000e-004	0.2596	0.0686	8.8000e-004	0.0695		178.0956	178.0956	2.2600e-003		178.1520
<b>Total</b>	<b>0.0603</b>	<b>0.0235</b>	<b>0.4472</b>	<b>1.7800e-003</b>	<b>0.2586</b>	<b>9.6000e-004</b>	<b>0.2596</b>	<b>0.0686</b>	<b>8.8000e-004</b>	<b>0.0695</b>		<b>178.0956</b>	<b>178.0956</b>	<b>2.2600e-003</b>		<b>178.1520</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.1640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>17.2947</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**3.6 Architectural Coating - 2033**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0235	0.4472	1.7800e-003	0.2384	9.6000e-004	0.2394	0.0636	8.8000e-004	0.0645		178.0956	178.0956	2.2600e-003		178.1520
<b>Total</b>	<b>0.0603</b>	<b>0.0235</b>	<b>0.4472</b>	<b>1.7800e-003</b>	<b>0.2384</b>	<b>9.6000e-004</b>	<b>0.2394</b>	<b>0.0636</b>	<b>8.8000e-004</b>	<b>0.0645</b>		<b>178.0956</b>	<b>178.0956</b>	<b>2.2600e-003</b>		<b>178.1520</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5374	6.0865	15.9394	0.0714	8.0538	0.0338	8.0876	2.1502	0.0314	2.1817		7,271.979 1	7,271.979 1	0.2487		7,278.196 8
Unmitigated	1.5374	6.0865	15.9394	0.0714	8.0538	0.0338	8.0876	2.1502	0.0314	2.1817		7,271.979 1	7,271.979 1	0.2487		7,278.196 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,429.75	1,373.85	1259.90	3,586,137	3,586,137
Retirement Community	52.80	44.66	42.90	128,877	128,877
Total	1,482.55	1,418.51	1,302.80	3,715,015	3,715,015

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
NaturalGas Unmitigated	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5742.03	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
Retirement Community	729.238	7.8600e-003	0.0672	0.0286	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.7927	85.7927	1.6400e-003	1.5700e-003	86.3025
<b>Total</b>		<b>0.0698</b>	<b>0.5964</b>	<b>0.2538</b>	<b>3.8100e-003</b>		<b>0.0482</b>	<b>0.0482</b>		<b>0.0482</b>	<b>0.0482</b>		<b>761.3258</b>	<b>761.3258</b>	<b>0.0146</b>	<b>0.0140</b>	<b>765.8500</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.74203	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
Retirement Community	0.729238	7.8600e-003	0.0672	0.0286	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.7927	85.7927	1.6400e-003	1.5700e-003	86.3025
<b>Total</b>		<b>0.0698</b>	<b>0.5964</b>	<b>0.2538</b>	<b>3.8100e-003</b>		<b>0.0482</b>	<b>0.0482</b>		<b>0.0482</b>	<b>0.0482</b>		<b>761.3258</b>	<b>761.3258</b>	<b>0.0146</b>	<b>0.0140</b>	<b>765.8500</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Unmitigated	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0718					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	0.5826	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084		35.2069	35.2069	0.0335		36.0448
<b>Total</b>	<b>6.4670</b>	<b>0.2248</b>	<b>19.4841</b>	<b>1.0300e-003</b>		<b>0.1084</b>	<b>0.1084</b>		<b>0.1084</b>	<b>0.1084</b>	<b>0.0000</b>	<b>35.2069</b>	<b>35.2069</b>	<b>0.0335</b>	<b>0.0000</b>	<b>36.0448</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0718					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	0.5826	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084		35.2069	35.2069	0.0335		36.0448
<b>Total</b>	<b>6.4670</b>	<b>0.2248</b>	<b>19.4841</b>	<b>1.0300e-003</b>		<b>0.1084</b>	<b>0.1084</b>		<b>0.1084</b>	<b>0.1084</b>	<b>0.0000</b>	<b>35.2069</b>	<b>35.2069</b>	<b>0.0335</b>	<b>0.0000</b>	<b>36.0448</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Construction Only - Phase 4)  
Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	22.00	Dwelling Unit	0.73	22,000.00	45

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 4 of March 2030 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 4

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

Grading - Assume 10.66 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill is 25,451 cy.

Architectural Coating - Assumes interior coatings use flat coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 28.33% - reflects project person/du value (2.523) vs. statewide avg. (2.97) and latest statewide data (ARB). Parking Degreaser EF red. by 57.5% (corrects for walking paths modeled as 'parking lot').

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices: Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -



## The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	230.00	459.00
tblConstructionPhase	NumDays	20.00	108.00
tblGrading	AcresOfGrading	42.50	10.66
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	4.40	0.73
tblLandUse	Population	574.00	621.00
tblLandUse	Population	59.00	45.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	7.00
tblTripsAndVMT	HaulingTripNumber	2,516.00	0.00

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	3.1295	14.9354	31.0803	0.0673	18.2032	0.5667	18.6405	9.9670	0.5666	10.4042	0.0000	6,390.4638	6,390.4638	0.2726	0.0000	6,397.2795
2031	1.6879	9.9047	18.6639	0.0448	1.4511	0.1557	1.6068	0.3883	0.1552	0.5435	0.0000	4,313.4743	4,313.4743	0.1585	0.0000	4,317.4371
2032	1.6610	9.8704	18.5279	0.0446	1.4511	0.1553	1.6064	0.3883	0.1548	0.5430	0.0000	4,294.6102	4,294.6102	0.1573	0.0000	4,298.5415
2033	17.3517	0.8851	2.1636	4.5400e-003	0.2586	0.0213	0.2799	0.0686	0.0212	0.0898	0.0000	437.7724	437.7724	0.0133	0.0000	438.1055
<b>Maximum</b>	<b>17.3517</b>	<b>14.9354</b>	<b>31.0803</b>	<b>0.0673</b>	<b>18.2032</b>	<b>0.5667</b>	<b>18.6405</b>	<b>9.9670</b>	<b>0.5666</b>	<b>10.4042</b>	<b>0.0000</b>	<b>6,390.4638</b>	<b>6,390.4638</b>	<b>0.2726</b>	<b>0.0000</b>	<b>6,397.2795</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Energy	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
Mobile	1.1182	6.3338	14.3936	0.0648	8.0538	0.0340	8.0878	2.1502	0.0316	2.1818		6,608.6976	6,608.6976	0.2522		6,615.0022
<b>Total</b>	<b>7.6549</b>	<b>7.1549</b>	<b>34.1314</b>	<b>0.0696</b>	<b>8.0538</b>	<b>0.1906</b>	<b>8.2444</b>	<b>2.1502</b>	<b>0.1882</b>	<b>2.3385</b>	<b>0.0000</b>	<b>7,405.2303</b>	<b>7,405.2303</b>	<b>0.3003</b>	<b>0.0140</b>	<b>7,416.8970</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Energy	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
Mobile	1.1182	6.3338	14.3936	0.0648	8.0538	0.0340	8.0878	2.1502	0.0316	2.1818		6,608.6976	6,608.6976	0.2522		6,615.0022
<b>Total</b>	<b>7.6549</b>	<b>7.1549</b>	<b>34.1314</b>	<b>0.0696</b>	<b>8.0538</b>	<b>0.1906</b>	<b>8.2444</b>	<b>2.1502</b>	<b>0.1882</b>	<b>2.3385</b>	<b>0.0000</b>	<b>7,405.2303</b>	<b>7,405.2303</b>	<b>0.3003</b>	<b>0.0140</b>	<b>7,416.8970</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2030	4/26/2030	5	41	
2	Grading and improvements	Grading	4/28/2030	8/23/2030	5	85	
3	Paving	Paving	8/2/2030	10/31/2030	5	65	
4	Building Construction	Building Construction	4/1/2031	12/31/2032	5	459	
5	Architectural Coating	Architectural Coating	1/2/2033	6/1/2033	5	108	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 479,925; Residential Outdoor: 159,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

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

**Trips and VMT**

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

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 for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	171.00	25.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	10.00	6.50	7.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.2 Site Preparation for Commercial and MFR - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0381	0.0195	0.2337	8.8000e-004	0.1369	6.3000e-004	0.1376	0.0363	5.8000e-004	0.0369		88.2681	88.2681	1.3300e-003		88.3013
<b>Total</b>	<b>0.0381</b>	<b>0.0195</b>	<b>0.2337</b>	<b>8.8000e-004</b>	<b>0.1369</b>	<b>6.3000e-004</b>	<b>0.1376</b>	<b>0.0363</b>	<b>5.8000e-004</b>	<b>0.0369</b>		<b>88.2681</b>	<b>88.2681</b>	<b>1.3300e-003</b>		<b>88.3013</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.4367</b>	<b>8.5665</b>	<b>4.4688</b>	<b>0.4367</b>	<b>4.9055</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.2 Site Preparation for Commercial and MFR - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0381	0.0195	0.2337	8.8000e-004	0.1262	6.3000e-004	0.1269	0.0337	5.8000e-004	0.0343		88.2681	88.2681	1.3300e-003		88.3013
<b>Total</b>	<b>0.0381</b>	<b>0.0195</b>	<b>0.2337</b>	<b>8.8000e-004</b>	<b>0.1262</b>	<b>6.3000e-004</b>	<b>0.1269</b>	<b>0.0337</b>	<b>5.8000e-004</b>	<b>0.0343</b>		<b>88.2681</b>	<b>88.2681</b>	<b>1.3300e-003</b>		<b>88.3013</b>

**3.3 Grading and improvements - 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	lb/day										lb/day					
Fugitive Dust					6.1551	0.0000	6.1551	3.3246	0.0000	3.3246			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.1551</b>	<b>0.2340</b>	<b>6.3891</b>	<b>3.3246</b>	<b>0.2340</b>	<b>3.5586</b>		<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.3 Grading and improvements - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0318	0.0163	0.1948	7.4000e-004	0.1141	5.2000e-004	0.1146	0.0303	4.8000e-004	0.0308		73.5567	73.5567	1.1100e-003		73.5844
<b>Total</b>	<b>0.0318</b>	<b>0.0163</b>	<b>0.1948</b>	<b>7.4000e-004</b>	<b>0.1141</b>	<b>5.2000e-004</b>	<b>0.1146</b>	<b>0.0303</b>	<b>4.8000e-004</b>	<b>0.0308</b>		<b>73.5567</b>	<b>73.5567</b>	<b>1.1100e-003</b>		<b>73.5844</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7698	0.0000	2.7698	1.4961	0.0000	1.4961			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>2.7698</b>	<b>0.2340</b>	<b>3.0038</b>	<b>1.4961</b>	<b>0.2340</b>	<b>1.7301</b>	<b>0.0000</b>	<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0318	0.0163	0.1948	7.4000e-004	0.1052	5.2000e-004	0.1057	0.0281	4.8000e-004	0.0286		73.5567	73.5567	1.1100e-003		73.5844
<b>Total</b>	<b>0.0318</b>	<b>0.0163</b>	<b>0.1948</b>	<b>7.4000e-004</b>	<b>0.1052</b>	<b>5.2000e-004</b>	<b>0.1057</b>	<b>0.0281</b>	<b>4.8000e-004</b>	<b>0.0286</b>		<b>73.5567</b>	<b>73.5567</b>	<b>1.1100e-003</b>		<b>73.5844</b>

**3.4 Paving - 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	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.4 Paving - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.0488	0.5843	2.2100e-003	0.9373	1.5700e-003	0.9388	0.2368	1.4500e-003	0.2383		220.6702	220.6702	3.3200e-003		220.7533
<b>Total</b>	<b>0.0953</b>	<b>0.0488</b>	<b>0.5843</b>	<b>2.2100e-003</b>	<b>0.9373</b>	<b>1.5700e-003</b>	<b>0.9388</b>	<b>0.2368</b>	<b>1.4500e-003</b>	<b>0.2383</b>		<b>220.6702</b>	<b>220.6702</b>	<b>3.3200e-003</b>		<b>220.7533</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

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**3.4 Paving - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.0488	0.5843	2.2100e-003	0.8570	1.5700e-003	0.8585	0.2171	1.4500e-003	0.2186		220.6702	220.6702	3.3200e-003		220.7533
<b>Total</b>	<b>0.0953</b>	<b>0.0488</b>	<b>0.5843</b>	<b>2.2100e-003</b>	<b>0.8570</b>	<b>1.5700e-003</b>	<b>0.8585</b>	<b>0.2171</b>	<b>1.4500e-003</b>	<b>0.2186</b>		<b>220.6702</b>	<b>220.6702</b>	<b>3.3200e-003</b>		<b>220.7533</b>

**3.5 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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.5 Building Construction - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0454	1.8006	0.4318	5.6200e-003	0.1503	2.0100e-003	0.1523	0.0433	1.9200e-003	0.0452		597.3425	597.3425	0.0308		598.1115
Worker	0.3333	0.1695	2.0751	8.2000e-003	1.3008	5.5700e-003	1.3064	0.3451	5.1200e-003	0.3502		818.5851	818.5851	0.0115		818.8727
<b>Total</b>	<b>0.3787</b>	<b>1.9700</b>	<b>2.5069</b>	<b>0.0138</b>	<b>1.4511</b>	<b>7.5800e-003</b>	<b>1.4587</b>	<b>0.3883</b>	<b>7.0400e-003</b>	<b>0.3953</b>		<b>1,415.9276</b>	<b>1,415.9276</b>	<b>0.0423</b>		<b>1,416.9842</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.5 Building Construction - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0454	1.8006	0.4318	5.6200e-003	0.1407	2.0100e-003	0.1427	0.0409	1.9200e-003	0.0428		597.3425	597.3425	0.0308		598.1115
Worker	0.3333	0.1695	2.0751	8.2000e-003	1.1991	5.5700e-003	1.2046	0.3201	5.1200e-003	0.3252		818.5851	818.5851	0.0115		818.8727
<b>Total</b>	<b>0.3787</b>	<b>1.9700</b>	<b>2.5069</b>	<b>0.0138</b>	<b>1.3397</b>	<b>7.5800e-003</b>	<b>1.3473</b>	<b>0.3610</b>	<b>7.0400e-003</b>	<b>0.3680</b>		<b>1,415.9276</b>	<b>1,415.9276</b>	<b>0.0423</b>		<b>1,416.9842</b>

**3.5 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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0445	1.7799	0.4236	5.6000e-003	0.1503	1.9300e-003	0.1522	0.0432	1.8400e-003	0.0451		595.8603	595.8603	0.0305		596.6223
Worker	0.3074	0.1558	1.9474	8.0300e-003	1.3008	5.1800e-003	1.3060	0.3451	4.7600e-003	0.3498		801.2032	801.2032	0.0105		801.4663
<b>Total</b>	<b>0.3519</b>	<b>1.9358</b>	<b>2.3710</b>	<b>0.0136</b>	<b>1.4511</b>	<b>7.1100e-003</b>	<b>1.4582</b>	<b>0.3883</b>	<b>6.6000e-003</b>	<b>0.3949</b>		<b>1,397.0635</b>	<b>1,397.0635</b>	<b>0.0410</b>		<b>1,398.0887</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.5 Building Construction - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0445	1.7799	0.4236	5.6000e-003	0.1406	1.9300e-003	0.1426	0.0409	1.8400e-003	0.0427		595.8603	595.8603	0.0305		596.6223
Worker	0.3074	0.1558	1.9474	8.0300e-003	1.1991	5.1800e-003	1.2042	0.3201	4.7600e-003	0.3248		801.2032	801.2032	0.0105		801.4663
<b>Total</b>	<b>0.3519</b>	<b>1.9358</b>	<b>2.3710</b>	<b>0.0136</b>	<b>1.3397</b>	<b>7.1100e-003</b>	<b>1.3468</b>	<b>0.3610</b>	<b>6.6000e-003</b>	<b>0.3676</b>		<b>1,397.0635</b>	<b>1,397.0635</b>	<b>0.0410</b>		<b>1,398.0887</b>

**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	lb/day										lb/day					
Archit. Coating	17.1640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>17.2947</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.6 Architectural Coating - 2033**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0288	0.3658	1.5700e-003	0.2586	9.6000e-004	0.2596	0.0686	8.8000e-004	0.0695		156.3244	156.3244	1.9300e-003		156.3726
<b>Total</b>	<b>0.0569</b>	<b>0.0288</b>	<b>0.3658</b>	<b>1.5700e-003</b>	<b>0.2586</b>	<b>9.6000e-004</b>	<b>0.2596</b>	<b>0.0686</b>	<b>8.8000e-004</b>	<b>0.0695</b>		<b>156.3244</b>	<b>156.3244</b>	<b>1.9300e-003</b>		<b>156.3726</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.1640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>17.2947</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**3.6 Architectural Coating - 2033**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0569	0.0288	0.3658	1.5700e-003	0.2384	9.6000e-004	0.2394	0.0636	8.8000e-004	0.0645		156.3244	156.3244	1.9300e-003		156.3726
<b>Total</b>	<b>0.0569</b>	<b>0.0288</b>	<b>0.3658</b>	<b>1.5700e-003</b>	<b>0.2384</b>	<b>9.6000e-004</b>	<b>0.2394</b>	<b>0.0636</b>	<b>8.8000e-004</b>	<b>0.0645</b>		<b>156.3244</b>	<b>156.3244</b>	<b>1.9300e-003</b>		<b>156.3726</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1182	6.3338	14.3936	0.0648	8.0538	0.0340	8.0878	2.1502	0.0316	2.1818		6,608.6976	6,608.6976	0.2522		6,615.0022
Unmitigated	1.1182	6.3338	14.3936	0.0648	8.0538	0.0340	8.0878	2.1502	0.0316	2.1818		6,608.6976	6,608.6976	0.2522		6,615.0022

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,429.75	1,373.85	1259.90	3,586,137	3,586,137
Retirement Community	52.80	44.66	42.90	128,877	128,877
<b>Total</b>	<b>1,482.55</b>	<b>1,418.51</b>	<b>1,302.80</b>	<b>3,715,015</b>	<b>3,715,015</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500
NaturalGas Unmitigated	0.0698	0.5964	0.2538	3.8100e-003		0.0482	0.0482		0.0482	0.0482		761.3258	761.3258	0.0146	0.0140	765.8500

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5742.03	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
Retirement Community	729.238	7.8600e-003	0.0672	0.0286	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.7927	85.7927	1.6400e-003	1.5700e-003	86.3025
<b>Total</b>		<b>0.0698</b>	<b>0.5964</b>	<b>0.2538</b>	<b>3.8100e-003</b>		<b>0.0482</b>	<b>0.0482</b>		<b>0.0482</b>	<b>0.0482</b>		<b>761.3258</b>	<b>761.3258</b>	<b>0.0146</b>	<b>0.0140</b>	<b>765.8500</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.74203	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
Retirement Community	0.729238	7.8600e-003	0.0672	0.0286	4.3000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003		85.7927	85.7927	1.6400e-003	1.5700e-003	86.3025
<b>Total</b>		<b>0.0698</b>	<b>0.5964</b>	<b>0.2538</b>	<b>3.8100e-003</b>		<b>0.0482</b>	<b>0.0482</b>		<b>0.0482</b>	<b>0.0482</b>		<b>761.3258</b>	<b>761.3258</b>	<b>0.0146</b>	<b>0.0140</b>	<b>765.8500</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448
Unmitigated	6.4670	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084	0.0000	35.2069	35.2069	0.0335	0.0000	36.0448

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0718					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	0.5826	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084		35.2069	35.2069	0.0335		36.0448
<b>Total</b>	<b>6.4670</b>	<b>0.2248</b>	<b>19.4841</b>	<b>1.0300e-003</b>		<b>0.1084</b>	<b>0.1084</b>		<b>0.1084</b>	<b>0.1084</b>	<b>0.0000</b>	<b>35.2069</b>	<b>35.2069</b>	<b>0.0335</b>	<b>0.0000</b>	<b>36.0448</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.0718					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	0.5826	0.2248	19.4841	1.0300e-003		0.1084	0.1084		0.1084	0.1084		35.2069	35.2069	0.0335		36.0448
<b>Total</b>	<b>6.4670</b>	<b>0.2248</b>	<b>19.4841</b>	<b>1.0300e-003</b>		<b>0.1084</b>	<b>0.1084</b>		<b>0.1084</b>	<b>0.1084</b>	<b>0.0000</b>	<b>35.2069</b>	<b>35.2069</b>	<b>0.0335</b>	<b>0.0000</b>	<b>36.0448</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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



The Ranch - City of Rancho Cordova (Construction Only - Phase 4) - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Construction Only - Phase 5)**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 5 of March 2034 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 5

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

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Grading - Assume 6.96 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill during this phase is 25,451 cy.

Architectural Coating - It was assumed that flat coatings are used for interior coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices:

Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	20.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	PhaseEndDate	3/14/2034	4/27/2034
tblConstructionPhase	PhaseEndDate	4/11/2034	7/31/2034
tblConstructionPhase	PhaseEndDate	3/27/2035	9/1/2034
tblConstructionPhase	PhaseEndDate	2/27/2035	9/28/2035
tblConstructionPhase	PhaseEndDate	4/24/2035	12/31/2035
tblConstructionPhase	PhaseStartDate	3/15/2034	4/28/2034
tblConstructionPhase	PhaseStartDate	2/28/2035	8/1/2034
tblConstructionPhase	PhaseStartDate	4/12/2034	10/1/2034
tblConstructionPhase	PhaseStartDate	3/28/2035	9/1/2035
tblGrading	AcresOfGrading	33.50	6.96
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	0.73	5.16
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	3,181.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2034	5-31-2034	0.4487	0.4487
2	6-1-2034	8-31-2034	0.3001	0.3001
3	9-1-2034	11-30-2034	0.2128	0.2128
4	12-1-2034	2-28-2035	0.2910	0.2910
5	3-1-2035	5-31-2035	0.2876	0.2876
6	6-1-2035	8-31-2035	0.2875	0.2875
7	9-1-2035	9-30-2035	0.1200	0.1200
		Highest	0.4487	0.4487

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1399	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Energy	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	108.3909	108.3909	5.0500e-003	1.1800e-003	108.8680
Mobile	0.1587	0.8344	1.4414	6.1900e-003	0.6863	3.3600e-003	0.6897	0.1838	3.1200e-003	0.1869	0.0000	573.1534	573.1534	0.0238	0.0000	573.7474
Waste						0.0000	0.0000		0.0000	0.0000	6.8205	0.0000	6.8205	0.4031	0.0000	16.8975
Water						0.0000	0.0000		0.0000	0.0000	0.8386	4.5238	5.3625	3.1100e-003	1.8700e-003	5.9973
<b>Total</b>	<b>0.2995</b>	<b>0.8429</b>	<b>1.4490</b>	<b>6.2400e-003</b>	<b>0.6863</b>	<b>4.0100e-003</b>	<b>0.6903</b>	<b>0.1838</b>	<b>3.7700e-003</b>	<b>0.1875</b>	<b>7.6591</b>	<b>686.0690</b>	<b>693.7281</b>	<b>0.4350</b>	<b>3.0500e-003</b>	<b>705.5111</b>



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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,057.243 0
<b>Total</b>	<b>528.6770</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2034	4/27/2034	5	42	
2	Grading and improvements	Grading	4/28/2034	7/31/2034	5	67	
3	Building Construction	Building Construction	10/1/2034	9/28/2035	5	260	
4	Paving	Paving	8/1/2034	9/1/2034	5	24	
5	Architectural Coating	Architectural Coating	9/1/2035	12/31/2035	5	86	

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

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

**Acres of Paving: 0**



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**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**

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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
Building Construction	9	10.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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					
Fugitive Dust					0.3794	0.0000	0.3794	0.2085	0.0000	0.2085	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0512	0.2870	0.3421	9.8000e-004	9.1700e-003	9.1700e-003	9.1700e-003	9.1700e-003	9.1700e-003	9.1700e-003	0.0000	84.0097	84.0097	4.1500e-003	0.0000	84.1133
<b>Total</b>	<b>0.0512</b>	<b>0.2870</b>	<b>0.3421</b>	<b>9.8000e-004</b>	<b>0.3794</b>	<b>9.1700e-003</b>	<b>0.3886</b>	<b>0.2085</b>	<b>9.1700e-003</b>	<b>0.2177</b>	<b>0.0000</b>	<b>84.0097</b>	<b>84.0097</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>84.1133</b>

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**3.2 Site Preparation for Commercial and MFR - 2034**

**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	5.5000e-004	2.7000e-004	3.8900e-003	2.0000e-005	2.7800e-003	1.0000e-005	2.7900e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	1.5964	1.5964	2.0000e-005	0.0000	1.5969
<b>Total</b>	<b>5.5000e-004</b>	<b>2.7000e-004</b>	<b>3.8900e-003</b>	<b>2.0000e-005</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>2.7900e-003</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>1.5964</b>	<b>1.5964</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.5969</b>

**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					0.1707	0.0000	0.1707	0.0938	0.0000	0.0938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0512	0.2870	0.3421	9.8000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	84.0096	84.0096	4.1500e-003	0.0000	84.1132
<b>Total</b>	<b>0.0512</b>	<b>0.2870</b>	<b>0.3421</b>	<b>9.8000e-004</b>	<b>0.1707</b>	<b>9.1700e-003</b>	<b>0.1799</b>	<b>0.0938</b>	<b>9.1700e-003</b>	<b>0.1030</b>	<b>0.0000</b>	<b>84.0096</b>	<b>84.0096</b>	<b>4.1500e-003</b>	<b>0.0000</b>	<b>84.1132</b>

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**3.2 Site Preparation for Commercial and MFR - 2034**

**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	5.5000e-004	2.7000e-004	3.8900e-003	2.0000e-005	2.5600e-003	1.0000e-005	2.5700e-003	6.9000e-004	1.0000e-005	6.9000e-004	0.0000	1.5964	1.5964	2.0000e-005	0.0000	1.5969
<b>Total</b>	<b>5.5000e-004</b>	<b>2.7000e-004</b>	<b>3.8900e-003</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>1.0000e-005</b>	<b>2.5700e-003</b>	<b>6.9000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.5964</b>	<b>1.5964</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.5969</b>

**3.3 Grading and improvements - 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					
Fugitive Dust					0.2081	0.0000	0.2081	0.1117	0.0000	0.1117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0542	0.2596	0.4841	1.2200e-003		7.8400e-003	7.8400e-003		7.8400e-003	7.8400e-003	0.0000	104.5355	104.5355	4.3700e-003	0.0000	104.6446
<b>Total</b>	<b>0.0542</b>	<b>0.2596</b>	<b>0.4841</b>	<b>1.2200e-003</b>	<b>0.2081</b>	<b>7.8400e-003</b>	<b>0.2159</b>	<b>0.1117</b>	<b>7.8400e-003</b>	<b>0.1195</b>	<b>0.0000</b>	<b>104.5355</b>	<b>104.5355</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>104.6446</b>

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**3.3 Grading and improvements - 2034**

**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	7.3000e-004	3.6000e-004	5.1700e-003	2.0000e-005	3.6900e-003	1.0000e-005	3.7000e-003	9.8000e-004	1.0000e-005	9.9000e-004	0.0000	2.1222	2.1222	2.0000e-005	0.0000	2.1228
<b>Total</b>	<b>7.3000e-004</b>	<b>3.6000e-004</b>	<b>5.1700e-003</b>	<b>2.0000e-005</b>	<b>3.6900e-003</b>	<b>1.0000e-005</b>	<b>3.7000e-003</b>	<b>9.8000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>2.1222</b>	<b>2.1222</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.1228</b>

**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					0.0936	0.0000	0.0936	0.0503	0.0000	0.0503	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0542	0.2596	0.4841	1.2200e-003		7.8400e-003	7.8400e-003		7.8400e-003	7.8400e-003	0.0000	104.5353	104.5353	4.3700e-003	0.0000	104.6445
<b>Total</b>	<b>0.0542</b>	<b>0.2596</b>	<b>0.4841</b>	<b>1.2200e-003</b>	<b>0.0936</b>	<b>7.8400e-003</b>	<b>0.1015</b>	<b>0.0503</b>	<b>7.8400e-003</b>	<b>0.0581</b>	<b>0.0000</b>	<b>104.5353</b>	<b>104.5353</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>104.6445</b>

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**3.3 Grading and improvements - 2034**

**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	7.3000e-004	3.6000e-004	5.1700e-003	2.0000e-005	3.4000e-003	1.0000e-005	3.4200e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	2.1222	2.1222	2.0000e-005	0.0000	2.1228
<b>Total</b>	<b>7.3000e-004</b>	<b>3.6000e-004</b>	<b>5.1700e-003</b>	<b>2.0000e-005</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>3.4200e-003</b>	<b>9.1000e-004</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.1222</b>	<b>2.1222</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.1228</b>

**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	0.0426	0.2579	0.5251	1.0100e-003		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	85.4298	85.4298	3.4300e-003	0.0000	85.5155
<b>Total</b>	<b>0.0426</b>	<b>0.2579</b>	<b>0.5251</b>	<b>1.0100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>85.4298</b>	<b>85.4298</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>85.5155</b>

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**3.4 Building Construction - 2034**

**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	2.7000e-004	0.0114	2.4700e-003	4.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.7000e-004	1.0000e-005	2.9000e-004	0.0000	3.5514	3.5514	1.7000e-004	0.0000	3.5556
Worker	4.7000e-004	2.3000e-004	3.3400e-003	2.0000e-005	2.3900e-003	1.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.3726	1.3726	2.0000e-005	0.0000	1.3730
<b>Total</b>	<b>7.4000e-004</b>	<b>0.0116</b>	<b>5.8100e-003</b>	<b>6.0000e-005</b>	<b>3.3400e-003</b>	<b>2.0000e-005</b>	<b>3.3600e-003</b>	<b>9.0000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>4.9239</b>	<b>4.9239</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.9286</b>

**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	0.0426	0.2579	0.5251	1.0100e-003		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	85.4297	85.4297	3.4300e-003	0.0000	85.5154
<b>Total</b>	<b>0.0426</b>	<b>0.2579</b>	<b>0.5251</b>	<b>1.0100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>85.4297</b>	<b>85.4297</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>85.5154</b>

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**3.4 Building Construction - 2034**

**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	2.7000e-004	0.0114	2.4700e-003	4.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	3.5514	3.5514	1.7000e-004	0.0000	3.5556
Worker	4.7000e-004	2.3000e-004	3.3400e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2100e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.3726	1.3726	2.0000e-005	0.0000	1.3730
<b>Total</b>	<b>7.4000e-004</b>	<b>0.0116</b>	<b>5.8100e-003</b>	<b>6.0000e-005</b>	<b>3.0900e-003</b>	<b>2.0000e-005</b>	<b>3.1100e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>4.9239</b>	<b>4.9239</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.9286</b>

**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	0.1186	0.6982	1.5715	3.0200e-003		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	256.2895	256.2895	9.5500e-003	0.0000	256.5281
<b>Total</b>	<b>0.1186</b>	<b>0.6982</b>	<b>1.5715</b>	<b>3.0200e-003</b>		<b>8.8200e-003</b>	<b>8.8200e-003</b>		<b>8.8200e-003</b>	<b>8.8200e-003</b>	<b>0.0000</b>	<b>256.2895</b>	<b>256.2895</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>256.5281</b>



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**3.4 Building Construction - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-004	0.0338	7.3300e-003	1.1000e-004	2.8500e-003	3.0000e-005	2.8800e-003	8.2000e-004	3.0000e-005	8.5000e-004	0.0000	10.6379	10.6379	5.0000e-004	0.0000	10.6505
Worker	1.3300e-003	6.5000e-004	9.5400e-003	4.0000e-005	7.1600e-003	2.0000e-005	7.1800e-003	1.9000e-003	2.0000e-005	1.9300e-003	0.0000	4.0592	4.0592	4.0000e-005	0.0000	4.0603
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0345</b>	<b>0.0169</b>	<b>1.5000e-004</b>	<b>0.0100</b>	<b>5.0000e-005</b>	<b>0.0101</b>	<b>2.7200e-003</b>	<b>5.0000e-005</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>14.6970</b>	<b>14.6970</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>14.7108</b>

**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	0.1186	0.6982	1.5715	3.0200e-003		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	256.2892	256.2892	9.5500e-003	0.0000	256.5278
<b>Total</b>	<b>0.1186</b>	<b>0.6982</b>	<b>1.5715</b>	<b>3.0200e-003</b>		<b>8.8200e-003</b>	<b>8.8200e-003</b>		<b>8.8200e-003</b>	<b>8.8200e-003</b>	<b>0.0000</b>	<b>256.2892</b>	<b>256.2892</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>256.5278</b>

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**3.4 Building Construction - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-004	0.0338	7.3300e-003	1.1000e-004	2.6700e-003	3.0000e-005	2.7000e-003	7.8000e-004	3.0000e-005	8.1000e-004	0.0000	10.6379	10.6379	5.0000e-004	0.0000	10.6505
Worker	1.3300e-003	6.5000e-004	9.5400e-003	4.0000e-005	6.6000e-003	2.0000e-005	6.6300e-003	1.7700e-003	2.0000e-005	1.7900e-003	0.0000	4.0592	4.0592	4.0000e-005	0.0000	4.0603
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0345</b>	<b>0.0169</b>	<b>1.5000e-004</b>	<b>9.2700e-003</b>	<b>5.0000e-005</b>	<b>9.3300e-003</b>	<b>2.5500e-003</b>	<b>5.0000e-005</b>	<b>2.6000e-003</b>	<b>0.0000</b>	<b>14.6970</b>	<b>14.6970</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>14.7108</b>

**3.5 Paving - 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	0.0166	0.0854	0.1902	3.4000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	28.9194	28.9194	1.3600e-003	0.0000	28.9533
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0166</b>	<b>0.0854</b>	<b>0.1902</b>	<b>3.4000e-004</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>28.9194</b>	<b>28.9194</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>28.9533</b>

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**3.5 Paving - 2034**

**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	7.8000e-004	3.8000e-004	5.5600e-003	3.0000e-005	0.0108	1.0000e-005	0.0108	2.7400e-003	1.0000e-005	2.7500e-003	0.0000	2.2806	2.2806	3.0000e-005	0.0000	2.2812
<b>Total</b>	<b>7.8000e-004</b>	<b>3.8000e-004</b>	<b>5.5600e-003</b>	<b>3.0000e-005</b>	<b>0.0108</b>	<b>1.0000e-005</b>	<b>0.0108</b>	<b>2.7400e-003</b>	<b>1.0000e-005</b>	<b>2.7500e-003</b>	<b>0.0000</b>	<b>2.2806</b>	<b>2.2806</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.2812</b>

**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	0.0166	0.0854	0.1902	3.4000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	28.9194	28.9194	1.3600e-003	0.0000	28.9533
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0166</b>	<b>0.0854</b>	<b>0.1902</b>	<b>3.4000e-004</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>		<b>3.9700e-003</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>28.9194</b>	<b>28.9194</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>28.9533</b>

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**3.5 Paving - 2034**

**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	7.8000e-004	3.8000e-004	5.5600e-003	3.0000e-005	9.9000e-003	1.0000e-005	9.9100e-003	2.5100e-003	1.0000e-005	2.5200e-003	0.0000	2.2806	2.2806	3.0000e-005	0.0000	2.2812
<b>Total</b>	<b>7.8000e-004</b>	<b>3.8000e-004</b>	<b>5.5600e-003</b>	<b>3.0000e-005</b>	<b>9.9000e-003</b>	<b>1.0000e-005</b>	<b>9.9100e-003</b>	<b>2.5100e-003</b>	<b>1.0000e-005</b>	<b>2.5200e-003</b>	<b>0.0000</b>	<b>2.2806</b>	<b>2.2806</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.2812</b>

**3.6 Architectural Coating - 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					
Archit. Coating	0.0927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0326	0.0772	1.3000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	10.9790	10.9790	4.1000e-004	0.0000	10.9891
<b>Total</b>	<b>0.0978</b>	<b>0.0326</b>	<b>0.0772</b>	<b>1.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>10.9891</b>

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**3.6 Architectural Coating - 2035**

**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	1.2000e-004	6.0000e-005	8.4000e-004	0.0000	6.3000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3580	0.3580	0.0000	0.0000	0.3581
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>6.3000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3580</b>	<b>0.3580</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.3581</b>

**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	0.0927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0326	0.0772	1.3000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	10.9790	10.9790	4.1000e-004	0.0000	10.9891
<b>Total</b>	<b>0.0978</b>	<b>0.0326</b>	<b>0.0772</b>	<b>1.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>10.9891</b>

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**3.6 Architectural Coating - 2035**

**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	1.2000e-004	6.0000e-005	8.4000e-004	0.0000	5.8000e-004	0.0000	5.8000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3580	0.3580	0.0000	0.0000	0.3581
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>5.8000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3580</b>	<b>0.3580</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.3581</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1587	0.8344	1.4414	6.1900e-003	0.6863	3.3600e-003	0.6897	0.1838	3.1200e-003	0.1869	0.0000	573.1534	573.1534	0.0238	0.0000	573.7474
Unmitigated	0.1587	0.8344	1.4414	6.1900e-003	0.6863	3.3600e-003	0.6897	0.1838	3.1200e-003	0.1869	0.0000	573.1534	573.1534	0.0238	0.0000	573.7474

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	1,366.40	1,599.04	807.68	1,844,187	1,844,187
Total	1,366.40	1,599.04	807.68	1,844,187	1,844,187

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	99.1355	99.1355	4.8700e-003	1.0100e-003	99.5575
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	99.1355	99.1355	4.8700e-003	1.0100e-003	99.5575
NaturalGas Mitigated	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
NaturalGas Unmitigated	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
<b>Total</b>		<b>9.4000e-004</b>	<b>8.5000e-003</b>	<b>7.1400e-003</b>	<b>5.0000e-005</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>9.2554</b>	<b>9.2554</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.3104</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
<b>Total</b>		<b>9.4000e-004</b>	<b>8.5000e-003</b>	<b>7.1400e-003</b>	<b>5.0000e-005</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>9.2554</b>	<b>9.2554</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>9.3104</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
<b>Total</b>		<b>99.1355</b>	<b>4.8700e-003</b>	<b>1.0100e-003</b>	<b>99.5575</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
<b>Total</b>		<b>99.1355</b>	<b>4.8700e-003</b>	<b>1.0100e-003</b>	<b>99.5575</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1399	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
Unmitigated	0.1399	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
<b>Total</b>	<b>0.1399</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.5000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.5000e-004
<b>Total</b>	<b>0.1399</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.5000e-004</b>

**7.0 Water Detail**

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### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.3625	3.1100e-003	1.8700e-003	5.9973
Unmitigated	5.3625	3.1100e-003	1.8700e-003	5.9973

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
<b>Total</b>		<b>5.3625</b>	<b>3.1100e-003</b>	<b>1.8700e-003</b>	<b>5.9973</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
<b>Total</b>		<b>5.3625</b>	<b>3.1100e-003</b>	<b>1.8700e-003</b>	<b>5.9973</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8205	0.4031	0.0000	16.8975
Unmitigated	6.8205	0.4031	0.0000	16.8975

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
<b>Total</b>		<b>6.8205</b>	<b>0.4031</b>	<b>0.0000</b>	<b>16.8975</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
<b>Total</b>		<b>6.8205</b>	<b>0.4031</b>	<b>0.0000</b>	<b>16.8975</b>

**9.0 Operational Offroad**

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

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#### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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### 11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	528.6770	0.0000	0.0000	528.6770

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**11.1 Vegetation Land Change**

**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 284.8	- 1,057.243 0	0.0000	0.0000	- 1,057.243 0
<b>Total</b>		<b>- 1,057.243 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- 1,057.243 0</b>

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920 0</b>



The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Construction Only - Phase 5)**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 5 of March 2034 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 5

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

Grading - Assume 6.96 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill during this phase is 25,451 cy.  
Architectural Coating - It was assumed that flat coatings are used for interior coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices:  
Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	20.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	PhaseEndDate	3/14/2034	4/27/2034
tblConstructionPhase	PhaseEndDate	4/11/2034	7/31/2034
tblConstructionPhase	PhaseEndDate	3/27/2035	9/1/2034
tblConstructionPhase	PhaseEndDate	2/27/2035	9/28/2035
tblConstructionPhase	PhaseEndDate	4/24/2035	12/31/2035
tblConstructionPhase	PhaseStartDate	3/15/2034	4/28/2034
tblConstructionPhase	PhaseStartDate	2/28/2035	8/1/2034
tblConstructionPhase	PhaseStartDate	4/12/2034	10/1/2034
tblConstructionPhase	PhaseStartDate	3/28/2035	9/1/2035
tblGrading	AcresOfGrading	33.50	6.96
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	0.73	5.16
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	3,181.00	0.00

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Energy	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Mobile	1.4116	5.4795	10.4989	0.0443	4.7301	0.0223	4.7524	1.2629	0.0207	1.2836		4,517.5501	4,517.5501	0.1736		4,521.8909
<b>Total</b>	<b>2.1831</b>	<b>5.5261</b>	<b>10.5413</b>	<b>0.0446</b>	<b>4.7301</b>	<b>0.0258</b>	<b>4.7559</b>	<b>1.2629</b>	<b>0.0243</b>	<b>1.2871</b>		<b>4,573.4604</b>	<b>4,573.4604</b>	<b>0.1747</b>	<b>1.0200e-003</b>	<b>4,578.1339</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Energy	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Mobile	1.4116	5.4795	10.4989	0.0443	4.7301	0.0223	4.7524	1.2629	0.0207	1.2836		4,517.5501	4,517.5501	0.1736		4,521.8909
<b>Total</b>	<b>2.1831</b>	<b>5.5261</b>	<b>10.5413</b>	<b>0.0446</b>	<b>4.7301</b>	<b>0.0258</b>	<b>4.7559</b>	<b>1.2629</b>	<b>0.0243</b>	<b>1.2871</b>		<b>4,573.4604</b>	<b>4,573.4604</b>	<b>0.1747</b>	<b>1.0200e-003</b>	<b>4,578.1339</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2034	4/27/2034	5	42	
2	Grading and improvements	Grading	4/28/2034	7/31/2034	5	67	
3	Building Construction	Building Construction	10/1/2034	9/28/2035	5	260	
4	Paving	Paving	8/1/2034	9/1/2034	5	24	
5	Architectural Coating	Architectural Coating	9/1/2035	12/31/2035	5	86	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

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

**Trips and VMT**

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

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
Building Construction	9	10.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>



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**3.2 Site Preparation for Commercial and MFR - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0116	0.2246	9.3000e-004	0.1369	4.7000e-004	0.1374	0.0363	4.4000e-004	0.0368		92.7454	92.7454	1.1100e-003		92.7730
<b>Total</b>	<b>0.0297</b>	<b>0.0116</b>	<b>0.2246</b>	<b>9.3000e-004</b>	<b>0.1369</b>	<b>4.7000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>92.7454</b>	<b>92.7454</b>	<b>1.1100e-003</b>		<b>92.7730</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.4367</b>	<b>8.5665</b>	<b>4.4688</b>	<b>0.4367</b>	<b>4.9055</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**3.2 Site Preparation for Commercial and MFR - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0116	0.2246	9.3000e-004	0.1262	4.7000e-004	0.1267	0.0337	4.4000e-004	0.0341		92.7454	92.7454	1.1100e-003		92.7730
<b>Total</b>	<b>0.0297</b>	<b>0.0116</b>	<b>0.2246</b>	<b>9.3000e-004</b>	<b>0.1262</b>	<b>4.7000e-004</b>	<b>0.1267</b>	<b>0.0337</b>	<b>4.4000e-004</b>	<b>0.0341</b>		<b>92.7454</b>	<b>92.7454</b>	<b>1.1100e-003</b>		<b>92.7730</b>

**3.3 Grading and improvements - 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	lb/day										lb/day					
Fugitive Dust					6.2108	0.0000	6.2108	3.3340	0.0000	3.3340			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.2108</b>	<b>0.2340</b>	<b>6.4448</b>	<b>3.3340</b>	<b>0.2340</b>	<b>3.5680</b>		<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0248	9.6800e-003	0.1871	7.7000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.6000e-004	0.0306		77.2878	77.2878	9.2000e-004		77.3109
<b>Total</b>	<b>0.0248</b>	<b>9.6800e-003</b>	<b>0.1871</b>	<b>7.7000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.6000e-004</b>	<b>0.0306</b>		<b>77.2878</b>	<b>77.2878</b>	<b>9.2000e-004</b>		<b>77.3109</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7949	0.0000	2.7949	1.5003	0.0000	1.5003			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>2.7949</b>	<b>0.2340</b>	<b>3.0289</b>	<b>1.5003</b>	<b>0.2340</b>	<b>1.7343</b>	<b>0.0000</b>	<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0248	9.6800e-003	0.1871	7.7000e-004	0.1052	4.0000e-004	0.1056	0.0281	3.6000e-004	0.0284		77.2878	77.2878	9.2000e-004		77.3109
<b>Total</b>	<b>0.0248</b>	<b>9.6800e-003</b>	<b>0.1871</b>	<b>7.7000e-004</b>	<b>0.1052</b>	<b>4.0000e-004</b>	<b>0.1056</b>	<b>0.0281</b>	<b>3.6000e-004</b>	<b>0.0284</b>		<b>77.2878</b>	<b>77.2878</b>	<b>9.2000e-004</b>		<b>77.3109</b>

**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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.4 Building Construction - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.1400e-003	0.3461	0.0718	1.1400e-003	0.0301	3.5000e-004	0.0304	8.6500e-003	3.3000e-004	8.9800e-003		121.7279	121.7279	5.5600e-003		121.8670
Worker	0.0165	6.4500e-003	0.1248	5.2000e-004	0.0761	2.6000e-004	0.0763	0.0202	2.4000e-004	0.0204		51.5252	51.5252	6.1000e-004		51.5406
<b>Total</b>	<b>0.0247</b>	<b>0.3525</b>	<b>0.1965</b>	<b>1.6600e-003</b>	<b>0.1061</b>	<b>6.1000e-004</b>	<b>0.1067</b>	<b>0.0288</b>	<b>5.7000e-004</b>	<b>0.0294</b>		<b>173.2531</b>	<b>173.2531</b>	<b>6.1700e-003</b>		<b>173.4075</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.4 Building Construction - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.1400e-003	0.3461	0.0718	1.1400e-003	0.0281	3.5000e-004	0.0285	8.1700e-003	3.3000e-004	8.5000e-003		121.7279	121.7279	5.5600e-003		121.8670
Worker	0.0165	6.4500e-003	0.1248	5.2000e-004	0.0701	2.6000e-004	0.0704	0.0187	2.4000e-004	0.0190		51.5252	51.5252	6.1000e-004		51.5406
<b>Total</b>	<b>0.0247</b>	<b>0.3525</b>	<b>0.1965</b>	<b>1.6600e-003</b>	<b>0.0983</b>	<b>6.1000e-004</b>	<b>0.0989</b>	<b>0.0269</b>	<b>5.7000e-004</b>	<b>0.0275</b>		<b>173.2531</b>	<b>173.2531</b>	<b>6.1700e-003</b>		<b>173.4075</b>

**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	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**3.4 Building Construction - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0200e-003	0.3431	0.0709	1.1400e-003	0.0301	3.3000e-004	0.0304	8.6500e-003	3.2000e-004	8.9700e-003		121.5433	121.5433	5.5200e-003		121.6814
Worker	0.0155	6.1000e-003	0.1190	5.1000e-004	0.0761	2.5000e-004	0.0763	0.0202	2.3000e-004	0.0204		50.7973	50.7973	5.7000e-004		50.8115
<b>Total</b>	<b>0.0235</b>	<b>0.3492</b>	<b>0.1899</b>	<b>1.6500e-003</b>	<b>0.1061</b>	<b>5.8000e-004</b>	<b>0.1067</b>	<b>0.0288</b>	<b>5.5000e-004</b>	<b>0.0294</b>		<b>172.3406</b>	<b>172.3406</b>	<b>6.0900e-003</b>		<b>172.4930</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

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**3.4 Building Construction - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0200e-003	0.3431	0.0709	1.1400e-003	0.0281	3.3000e-004	0.0285	8.1700e-003	3.2000e-004	8.4900e-003		121.5433	121.5433	5.5200e-003		121.6814
Worker	0.0155	6.1000e-003	0.1190	5.1000e-004	0.0701	2.5000e-004	0.0704	0.0187	2.3000e-004	0.0189		50.7973	50.7973	5.7000e-004		50.8115
<b>Total</b>	<b>0.0235</b>	<b>0.3492</b>	<b>0.1899</b>	<b>1.6500e-003</b>	<b>0.0983</b>	<b>5.8000e-004</b>	<b>0.0988</b>	<b>0.0269</b>	<b>5.5000e-004</b>	<b>0.0274</b>		<b>172.3406</b>	<b>172.3406</b>	<b>6.0900e-003</b>		<b>172.4930</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>



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**3.5 Paving - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0290	0.5614	2.3200e-003	0.9373	1.1900e-003	0.9385	0.2368	1.0900e-003	0.2379		231.8635	231.8635	2.7600e-003		231.9326
<b>Total</b>	<b>0.0743</b>	<b>0.0290</b>	<b>0.5614</b>	<b>2.3200e-003</b>	<b>0.9373</b>	<b>1.1900e-003</b>	<b>0.9385</b>	<b>0.2368</b>	<b>1.0900e-003</b>	<b>0.2379</b>		<b>231.8635</b>	<b>231.8635</b>	<b>2.7600e-003</b>		<b>231.9326</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**3.5 Paving - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0290	0.5614	2.3200e-003	0.8570	1.1900e-003	0.8581	0.2171	1.0900e-003	0.2182		231.8635	231.8635	2.7600e-003		231.9326
<b>Total</b>	<b>0.0743</b>	<b>0.0290</b>	<b>0.5614</b>	<b>2.3200e-003</b>	<b>0.8570</b>	<b>1.1900e-003</b>	<b>0.8581</b>	<b>0.2171</b>	<b>1.0900e-003</b>	<b>0.2182</b>		<b>231.8635</b>	<b>231.8635</b>	<b>2.7600e-003</b>		<b>231.9326</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	2.1558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>2.2737</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**3.6 Architectural Coating - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.0900e-003	1.2200e-003	0.0238	1.0000e-004	0.0152	5.0000e-005	0.0153	4.0400e-003	5.0000e-005	4.0800e-003		10.1595	10.1595	1.1000e-004		10.1623
<b>Total</b>	<b>3.0900e-003</b>	<b>1.2200e-003</b>	<b>0.0238</b>	<b>1.0000e-004</b>	<b>0.0152</b>	<b>5.0000e-005</b>	<b>0.0153</b>	<b>4.0400e-003</b>	<b>5.0000e-005</b>	<b>4.0800e-003</b>		<b>10.1595</b>	<b>10.1595</b>	<b>1.1000e-004</b>		<b>10.1623</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>2.2737</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

**3.6 Architectural Coating - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.0900e-003	1.2200e-003	0.0238	1.0000e-004	0.0140	5.0000e-005	0.0141	3.7400e-003	5.0000e-005	3.7900e-003		10.1595	10.1595	1.1000e-004		10.1623
<b>Total</b>	<b>3.0900e-003</b>	<b>1.2200e-003</b>	<b>0.0238</b>	<b>1.0000e-004</b>	<b>0.0140</b>	<b>5.0000e-005</b>	<b>0.0141</b>	<b>3.7400e-003</b>	<b>5.0000e-005</b>	<b>3.7900e-003</b>		<b>10.1595</b>	<b>10.1595</b>	<b>1.1000e-004</b>		<b>10.1623</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4116	5.4795	10.4989	0.0443	4.7301	0.0223	4.7524	1.2629	0.0207	1.2836		4,517.550 1	4,517.550 1	0.1736		4,521.890 9
Unmitigated	1.4116	5.4795	10.4989	0.0443	4.7301	0.0223	4.7524	1.2629	0.0207	1.2836		4,517.550 1	4,517.550 1	0.1736		4,521.890 9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	1,366.40	1,599.04	807.68	1,844,187	1,844,187
Total	1,366.40	1,599.04	807.68	1,844,187	1,844,187

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
NaturalGas Unmitigated	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	475.178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
<b>Total</b>		<b>5.1200e-003</b>	<b>0.0466</b>	<b>0.0391</b>	<b>2.8000e-004</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>55.9033</b>	<b>55.9033</b>	<b>1.0700e-003</b>	<b>1.0200e-003</b>	<b>56.2355</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.475178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
<b>Total</b>		<b>5.1200e-003</b>	<b>0.0466</b>	<b>0.0391</b>	<b>2.8000e-004</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>55.9033</b>	<b>55.9033</b>	<b>1.0700e-003</b>	<b>1.0200e-003</b>	<b>56.2355</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Unmitigated	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
<b>Total</b>	<b>0.7664</b>	<b>3.0000e-005</b>	<b>3.2500e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0000e-003</b>	<b>7.0000e-003</b>	<b>2.0000e-005</b>		<b>7.4500e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
<b>Total</b>	<b>0.7664</b>	<b>3.0000e-005</b>	<b>3.2500e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0000e-003</b>	<b>7.0000e-003</b>	<b>2.0000e-005</b>		<b>7.4500e-003</b>

**7.0 Water Detail**



## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Construction Only - Phase 5)**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Estimated construction start date for Phase 5 of March 2034 (provided by Applicant).

Land Use - This model run provides construction emissions only.

Construction Phase - Phase 5

Off-road Equipment -

Off-road Equipment - For building construction, assumes 1 crane, 2 forklifts, 1 generator set, 1 tractor/loader/backhoe, and 1 welder (as provided by the applicant)

Off-road Equipment -

Off-road Equipment - D

Off-road Equipment -

Trips and VMT - Assume grading truck haul length = 7 miles (Sacramento dump site).

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

Grading - Assume 6.96 acres grading during this phase, based on project components to be built during this phase. Net export of cut and fill during this phase is 25,451 cy.  
Architectural Coating - It was assumed that flat coatings are used for interior coatings.

Vehicle Trips - Operational emissions not modeled under this scenario (construction only)

Road Dust -

Woodstoves - No fireplaces.

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.57-92.01-5.08-0.65-30.40-21.18-18.41 = 284.80

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - Construction mitigation reflects quantification of the SMAQMD Basic Construction Emissions Control Practices:  
Water Exposed area 2x daily; Unpaved road mitigation = 15 mph; Clean paved road = 9%.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	20.00	67.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	230.00	260.00
tblConstructionPhase	NumDays	20.00	86.00
tblConstructionPhase	PhaseEndDate	3/14/2034	4/27/2034
tblConstructionPhase	PhaseEndDate	4/11/2034	7/31/2034
tblConstructionPhase	PhaseEndDate	3/27/2035	9/1/2034
tblConstructionPhase	PhaseEndDate	2/27/2035	9/28/2035
tblConstructionPhase	PhaseEndDate	4/24/2035	12/31/2035
tblConstructionPhase	PhaseStartDate	3/15/2034	4/28/2034
tblConstructionPhase	PhaseStartDate	2/28/2035	8/1/2034
tblConstructionPhase	PhaseStartDate	4/12/2034	10/1/2034
tblConstructionPhase	PhaseStartDate	3/28/2035	9/1/2035
tblGrading	AcresOfGrading	33.50	6.96
tblGrading	MaterialExported	0.00	25,451.00
tblLandUse	LotAcreage	0.73	5.16
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblTripsAndVMT	HaulingTripNumber	3,181.00	0.00

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Energy	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Mobile	0.9632	5.5977	10.0904	0.0402	4.7301	0.0225	4.7525	1.2629	0.0209	1.2837		4,104.8843	4,104.8843	0.1807		4,109.4016
<b>Total</b>	<b>1.7347</b>	<b>5.6443</b>	<b>10.1327</b>	<b>0.0405</b>	<b>4.7301</b>	<b>0.0260</b>	<b>4.7561</b>	<b>1.2629</b>	<b>0.0244</b>	<b>1.2873</b>		<b>4,160.7946</b>	<b>4,160.7946</b>	<b>0.1818</b>	<b>1.0200e-003</b>	<b>4,165.6445</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Energy	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Mobile	0.9632	5.5977	10.0904	0.0402	4.7301	0.0225	4.7525	1.2629	0.0209	1.2837		4,104.8843	4,104.8843	0.1807		4,109.4016
<b>Total</b>	<b>1.7347</b>	<b>5.6443</b>	<b>10.1327</b>	<b>0.0405</b>	<b>4.7301</b>	<b>0.0260</b>	<b>4.7561</b>	<b>1.2629</b>	<b>0.0244</b>	<b>1.2873</b>		<b>4,160.7946</b>	<b>4,160.7946</b>	<b>0.1818</b>	<b>1.0200e-003</b>	<b>4,165.6445</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation for Commercial and MFR	Site Preparation	3/1/2034	4/27/2034	5	42	
2	Grading and improvements	Grading	4/28/2034	7/31/2034	5	67	
3	Building Construction	Building Construction	10/1/2034	9/28/2035	5	260	
4	Paving	Paving	8/1/2034	9/1/2034	5	24	
5	Architectural Coating	Architectural Coating	9/1/2035	12/31/2035	5	86	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,000; Non-Residential Outdoor: 16,000; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

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

**Trips and VMT**



The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

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
Building Construction	9	10.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading and improvements	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation for Commercial and MFR	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation for Commercial and MFR - 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.0663</b>	<b>0.4367</b>	<b>18.5029</b>	<b>9.9307</b>	<b>0.4367</b>	<b>10.3673</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.2 Site Preparation for Commercial and MFR - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0142	0.1830	8.2000e-004	0.1369	4.7000e-004	0.1374	0.0363	4.4000e-004	0.0368		81.3973	81.3973	9.4000e-004		81.4209
<b>Total</b>	<b>0.0282</b>	<b>0.0142</b>	<b>0.1830</b>	<b>8.2000e-004</b>	<b>0.1369</b>	<b>4.7000e-004</b>	<b>0.1374</b>	<b>0.0363</b>	<b>4.4000e-004</b>	<b>0.0368</b>		<b>81.3973</b>	<b>81.3973</b>	<b>9.4000e-004</b>		<b>81.4209</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>8.1298</b>	<b>0.4367</b>	<b>8.5665</b>	<b>4.4688</b>	<b>0.4367</b>	<b>4.9055</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.2 Site Preparation for Commercial and MFR - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0142	0.1830	8.2000e-004	0.1262	4.7000e-004	0.1267	0.0337	4.4000e-004	0.0341		81.3973	81.3973	9.4000e-004		81.4209
<b>Total</b>	<b>0.0282</b>	<b>0.0142</b>	<b>0.1830</b>	<b>8.2000e-004</b>	<b>0.1262</b>	<b>4.7000e-004</b>	<b>0.1267</b>	<b>0.0337</b>	<b>4.4000e-004</b>	<b>0.0341</b>		<b>81.3973</b>	<b>81.3973</b>	<b>9.4000e-004</b>		<b>81.4209</b>

**3.3 Grading and improvements - 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	lb/day										lb/day					
Fugitive Dust					6.2108	0.0000	6.2108	3.3340	0.0000	3.3340			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.2108</b>	<b>0.2340</b>	<b>6.4448</b>	<b>3.3340</b>	<b>0.2340</b>	<b>3.5680</b>		<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

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**3.3 Grading and improvements - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0119	0.1525	6.8000e-004	0.1141	4.0000e-004	0.1145	0.0303	3.6000e-004	0.0306		67.8311	67.8311	7.9000e-004		67.8507
<b>Total</b>	<b>0.0235</b>	<b>0.0119</b>	<b>0.1525</b>	<b>6.8000e-004</b>	<b>0.1141</b>	<b>4.0000e-004</b>	<b>0.1145</b>	<b>0.0303</b>	<b>3.6000e-004</b>	<b>0.0306</b>		<b>67.8311</b>	<b>67.8311</b>	<b>7.9000e-004</b>		<b>67.8507</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7949	0.0000	2.7949	1.5003	0.0000	1.5003			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.7201	3,439.7201	0.1437		3,443.3117
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>2.7949</b>	<b>0.2340</b>	<b>3.0289</b>	<b>1.5003</b>	<b>0.2340</b>	<b>1.7343</b>	<b>0.0000</b>	<b>3,439.7201</b>	<b>3,439.7201</b>	<b>0.1437</b>		<b>3,443.3117</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.3 Grading and improvements - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0119	0.1525	6.8000e-004	0.1052	4.0000e-004	0.1056	0.0281	3.6000e-004	0.0284		67.8311	67.8311	7.9000e-004		67.8507
<b>Total</b>	<b>0.0235</b>	<b>0.0119</b>	<b>0.1525</b>	<b>6.8000e-004</b>	<b>0.1052</b>	<b>4.0000e-004</b>	<b>0.1056</b>	<b>0.0281</b>	<b>3.6000e-004</b>	<b>0.0284</b>		<b>67.8311</b>	<b>67.8311</b>	<b>7.9000e-004</b>		<b>67.8507</b>

**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	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.4 Building Construction - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.5900e-003	0.3489	0.0820	1.1200e-003	0.0301	3.6000e-004	0.0304	8.6500e-003	3.4000e-004	8.9900e-003		118.6923	118.6923	6.0000e-003		118.8424
Worker	0.0157	7.9100e-003	0.1016	4.5000e-004	0.0761	2.6000e-004	0.0763	0.0202	2.4000e-004	0.0204		45.2207	45.2207	5.2000e-004		45.2338
<b>Total</b>	<b>0.0243</b>	<b>0.3568</b>	<b>0.1837</b>	<b>1.5700e-003</b>	<b>0.1061</b>	<b>6.2000e-004</b>	<b>0.1068</b>	<b>0.0288</b>	<b>5.8000e-004</b>	<b>0.0294</b>		<b>163.9131</b>	<b>163.9131</b>	<b>6.5200e-003</b>		<b>164.0762</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

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**3.4 Building Construction - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.5900e-003	0.3489	0.0820	1.1200e-003	0.0281	3.6000e-004	0.0285	8.1700e-003	3.4000e-004	8.5100e-003		118.6923	118.6923	6.0000e-003		118.8424
Worker	0.0157	7.9100e-003	0.1016	4.5000e-004	0.0701	2.6000e-004	0.0704	0.0187	2.4000e-004	0.0190		45.2207	45.2207	5.2000e-004		45.2338
<b>Total</b>	<b>0.0243</b>	<b>0.3568</b>	<b>0.1837</b>	<b>1.5700e-003</b>	<b>0.0983</b>	<b>6.2000e-004</b>	<b>0.0989</b>	<b>0.0269</b>	<b>5.8000e-004</b>	<b>0.0275</b>		<b>163.9131</b>	<b>163.9131</b>	<b>6.5200e-003</b>		<b>164.0762</b>

**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	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.4 Building Construction - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4600e-003	0.3459	0.0810	1.1100e-003	0.0301	3.4000e-004	0.0304	8.6500e-003	3.3000e-004	8.9800e-003		118.5111	118.5111	5.9600e-003		118.6600
Worker	0.0147	7.4700e-003	0.0966	4.5000e-004	0.0761	2.5000e-004	0.0763	0.0202	2.3000e-004	0.0204		44.5770	44.5770	4.9000e-004		44.5892
<b>Total</b>	<b>0.0232</b>	<b>0.3534</b>	<b>0.1775</b>	<b>1.5600e-003</b>	<b>0.1061</b>	<b>5.9000e-004</b>	<b>0.1067</b>	<b>0.0288</b>	<b>5.6000e-004</b>	<b>0.0294</b>		<b>163.0881</b>	<b>163.0881</b>	<b>6.4500e-003</b>		<b>163.2492</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>



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**3.4 Building Construction - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4600e-003	0.3459	0.0810	1.1100e-003	0.0281	3.4000e-004	0.0285	8.1700e-003	3.3000e-004	8.5000e-003		118.5111	118.5111	5.9600e-003		118.6600
Worker	0.0147	7.4700e-003	0.0966	4.5000e-004	0.0701	2.5000e-004	0.0704	0.0187	2.3000e-004	0.0189		44.5770	44.5770	4.9000e-004		44.5892
<b>Total</b>	<b>0.0232</b>	<b>0.3534</b>	<b>0.1775</b>	<b>1.5600e-003</b>	<b>0.0983</b>	<b>5.9000e-004</b>	<b>0.0988</b>	<b>0.0269</b>	<b>5.6000e-004</b>	<b>0.0274</b>		<b>163.0881</b>	<b>163.0881</b>	<b>6.4500e-003</b>		<b>163.2492</b>

**3.5 Paving - 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	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.5 Paving - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0356	0.4574	2.0400e-003	0.9373	1.1900e-003	0.9385	0.2368	1.0900e-003	0.2379		203.4933	203.4933	2.3600e-003		203.5522
<b>Total</b>	<b>0.0705</b>	<b>0.0356</b>	<b>0.4574</b>	<b>2.0400e-003</b>	<b>0.9373</b>	<b>1.1900e-003</b>	<b>0.9385</b>	<b>0.2368</b>	<b>1.0900e-003</b>	<b>0.2379</b>		<b>203.4933</b>	<b>203.4933</b>	<b>2.3600e-003</b>		<b>203.5522</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.5 Paving - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0356	0.4574	2.0400e-003	0.8570	1.1900e-003	0.8581	0.2171	1.0900e-003	0.2182		203.4933	203.4933	2.3600e-003		203.5522
<b>Total</b>	<b>0.0705</b>	<b>0.0356</b>	<b>0.4574</b>	<b>2.0400e-003</b>	<b>0.8570</b>	<b>1.1900e-003</b>	<b>0.8581</b>	<b>0.2171</b>	<b>1.0900e-003</b>	<b>0.2182</b>		<b>203.4933</b>	<b>203.4933</b>	<b>2.3600e-003</b>		<b>203.5522</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	2.1558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>2.2737</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.6 Architectural Coating - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.9500e-003	1.4900e-003	0.0193	9.0000e-005	0.0152	5.0000e-005	0.0153	4.0400e-003	5.0000e-005	4.0800e-003		8.9154	8.9154	1.0000e-004		8.9178
<b>Total</b>	<b>2.9500e-003</b>	<b>1.4900e-003</b>	<b>0.0193</b>	<b>9.0000e-005</b>	<b>0.0152</b>	<b>5.0000e-005</b>	<b>0.0153</b>	<b>4.0400e-003</b>	<b>5.0000e-005</b>	<b>4.0800e-003</b>		<b>8.9154</b>	<b>8.9154</b>	<b>1.0000e-004</b>		<b>8.9178</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.1558					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>2.2737</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**3.6 Architectural Coating - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.9500e-003	1.4900e-003	0.0193	9.0000e-005	0.0140	5.0000e-005	0.0141	3.7400e-003	5.0000e-005	3.7900e-003		8.9154	8.9154	1.0000e-004		8.9178
<b>Total</b>	<b>2.9500e-003</b>	<b>1.4900e-003</b>	<b>0.0193</b>	<b>9.0000e-005</b>	<b>0.0140</b>	<b>5.0000e-005</b>	<b>0.0141</b>	<b>3.7400e-003</b>	<b>5.0000e-005</b>	<b>3.7900e-003</b>		<b>8.9154</b>	<b>8.9154</b>	<b>1.0000e-004</b>		<b>8.9178</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9632	5.5977	10.0904	0.0402	4.7301	0.0225	4.7525	1.2629	0.0209	1.2837		4,104.8843	4,104.8843	0.1807		4,109.4016
Unmitigated	0.9632	5.5977	10.0904	0.0402	4.7301	0.0225	4.7525	1.2629	0.0209	1.2837		4,104.8843	4,104.8843	0.1807		4,109.4016

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	1,366.40	1,599.04	807.68	1,844,187	1,844,187
Total	1,366.40	1,599.04	807.68	1,844,187	1,844,187

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
NaturalGas Unmitigated	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	475.178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
<b>Total</b>		<b>5.1200e-003</b>	<b>0.0466</b>	<b>0.0391</b>	<b>2.8000e-004</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>55.9033</b>	<b>55.9033</b>	<b>1.0700e-003</b>	<b>1.0200e-003</b>	<b>56.2355</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.475178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
<b>Total</b>		<b>5.1200e-003</b>	<b>0.0466</b>	<b>0.0391</b>	<b>2.8000e-004</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>3.5400e-003</b>	<b>3.5400e-003</b>		<b>55.9033</b>	<b>55.9033</b>	<b>1.0700e-003</b>	<b>1.0200e-003</b>	<b>56.2355</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
Unmitigated	0.7664	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003



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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
<b>Total</b>	<b>0.7664</b>	<b>3.0000e-005</b>	<b>3.2500e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0000e-003</b>	<b>7.0000e-003</b>	<b>2.0000e-005</b>		<b>7.4500e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.0000e-003	7.0000e-003	2.0000e-005		7.4500e-003
<b>Total</b>	<b>0.7664</b>	<b>3.0000e-005</b>	<b>3.2500e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>7.0000e-003</b>	<b>7.0000e-003</b>	<b>2.0000e-005</b>		<b>7.4500e-003</b>

**7.0 Water Detail**

## The Ranch - City of Rancho Cordova (Construction Only - Phase 5) - Sacramento County, Winter

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

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

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

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

Equipment Type	Number
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**11.0 Vegetation**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

## Project Characteristics - Buildout Year: 2029

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation -

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract).

Water Mitigation - Installation of low-floor indoor water use fixtures, and use of water-efficient irrigation systems (consistent with the current version of Title 24).

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	2.14E-05	1.5173E-05
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00
tblLandUse	Population	1,968.00	1,533.00
tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	28.06
tblVehicleTrips	ST_TR	2.03	3.20
tblVehicleTrips	ST_TR	9.91	8.70
tblVehicleTrips	SU_TR	5.86	5.36
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.24	28.06

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

tblVehicleTrips	SU_TR	1.95	3.20
tblVehicleTrips	SU_TR	8.62	8.70
tblVehicleTrips	WD_TR	6.65	5.36
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	28.06
tblVehicleTrips	WD_TR	2.40	3.20
tblVehicleTrips	WD_TR	9.52	8.70

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.5150	1.5150
2	4-1-2020	6-30-2020	1.5149	1.5149
3	7-1-2020	9-30-2020	1.1653	1.1653
		Highest	1.5150	1.5150

**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	8.0481	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	4,619.0251	4,619.0251	0.1779	0.0603	4,641.4440
Mobile	1.5875	8.2466	18.2704	0.0857	10.0427	0.0439	10.0866	2.6889	0.0408	2.7297	0.0000	7,936.6038	7,936.6038	0.2912	0.0000	7,943.8825
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	235.0189	275.6215	0.1513	0.0907	306.4284
<b>Total</b>	<b>9.8008</b>	<b>9.8632</b>	<b>36.6023</b>	<b>0.0957</b>	<b>10.0427</b>	<b>0.2567</b>	<b>10.2994</b>	<b>2.6889</b>	<b>0.2536</b>	<b>2.9425</b>	<b>292.5976</b>	<b>12,819.7076</b>	<b>13,112.3053</b>	<b>15.5405</b>	<b>0.1510</b>	<b>13,545.8133</b>



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0481	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	1,758.6933	1,758.6933	0.0374	0.0312	1,768.9354
Mobile	1.4929	7.7839	16.0811	0.0738	8.5363	0.0384	8.5746	2.2855	0.0356	2.3212	0.0000	6,834.0313	6,834.0313	0.2585	0.0000	6,840.4943
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	32.4821	199.4008	231.8829	0.1216	0.0727	256.5769
<b>Total</b>	<b>9.7062</b>	<b>9.4005</b>	<b>34.4129</b>	<b>0.0838</b>	<b>8.5363</b>	<b>0.2511</b>	<b>8.7874</b>	<b>2.2855</b>	<b>0.2484</b>	<b>2.5339</b>	<b>284.4771</b>	<b>8,821.1851</b>	<b>9,105.6622</b>	<b>15.3377</b>	<b>0.1039</b>	<b>9,520.0649</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.97</b>	<b>4.69</b>	<b>5.98</b>	<b>12.47</b>	<b>15.00</b>	<b>2.17</b>	<b>14.68</b>	<b>15.00</b>	<b>2.05</b>	<b>13.88</b>	<b>2.78</b>	<b>31.19</b>	<b>30.56</b>	<b>1.31</b>	<b>31.19</b>	<b>29.72</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,083.275 4
<b>Total</b>	<b>502.6446</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	1/1/2020	9/8/2020	5	180	

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

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

**Acres of Paving: 5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

OffRoad Equipment

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8761	300.8761	0.0973	0.0000	303.3089
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8761</b>	<b>300.8761</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3089</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0119	9.0000e-005	0.0120	3.1600e-003	8.0000e-005	3.2400e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0119</b>	<b>9.0000e-005</b>	<b>0.0120</b>	<b>3.1600e-003</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**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					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8758	300.8758	0.0973	0.0000	303.3085
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8758</b>	<b>300.8758</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3085</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0110	9.0000e-005	0.0111	2.9400e-003	8.0000e-005	3.0200e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0110</b>	<b>9.0000e-005</b>	<b>0.0111</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4929	7.7839	16.0811	0.0738	8.5363	0.0384	8.5746	2.2855	0.0356	2.3212	0.0000	6,834.031 3	6,834.031 3	0.2585	0.0000	6,840.494 3
Unmitigated	1.5875	8.2466	18.2704	0.0857	10.0427	0.0439	10.0866	2.6889	0.0408	2.7297	0.0000	7,936.603 8	7,936.603 8	0.2912	0.0000	7,943.882 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,152.40	1,152.40	1152.40	2,957,184	2,661,466
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	897.92	897.92	897.92	1,254,668	1,129,201
Retirement Community	121.60	121.60	121.60	312,039	280,835
Retirement Community	2,358.40	2,358.40	2358.40	6,051,911	5,446,720
Single Family Housing	6,394.50	6,394.50	6394.50	16,408,984	14,768,086
Total	10,924.82	10,924.82	10,924.82	26,984,786	24,286,308

4.3 Trip Type Information

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Other Asphalt Surfaces	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	123.9311	123.9311	6.0900e-003	1.2600e-003	124.4587
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,984.2630	2,984.2630	0.1466	0.0303	2,996.9672
NaturalGas Mitigated	0.1652	1.4121	0.6044	9.0100e-003			0.1141	0.1141		0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768
NaturalGas Unmitigated	0.1652	1.4121	0.6044	9.0100e-003			0.1141	0.1141		0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22869	6.1234	3.0000e-004	6.0000e-005	6.1495
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
Retirement Community	178029	47.6691	2.3400e-003	4.8000e-004	47.8721
Retirement Community	3.45283e+006	924.5302	0.0454	9.4000e-003	928.4660
Single Family Housing	6.20618e+006	1,661.7670	0.0816	0.0169	1,668.8413
<b>Total</b>		<b>2,984.2630</b>	<b>0.1466</b>	<b>0.0303</b>	<b>2,996.9672</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	38916.9	10.4204	5.1000e-004	1.1000e-004	10.4647
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	325.883	0.0873	0.0000	0.0000	0.0876
Regional Shopping Center	12167.3	3.2579	1.6000e-004	3.0000e-005	3.2718
Retirement Community	142243	38.0870	1.8700e-003	3.9000e-004	38.2491
Retirement Community	7334.1	1.9638	1.0000e-004	2.0000e-005	1.9721
Single Family Housing	261857	70.1147	3.4400e-003	7.1000e-004	70.4132
<b>Total</b>		<b>123.9311</b>	<b>6.0800e-003</b>	<b>1.2600e-003</b>	<b>124.4586</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0481	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Unmitigated	8.0481	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5928					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.0481</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5928					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.0481</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Turf Reduction

Use Water Efficient Irrigation System

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	231.8829	0.1216	0.0727	256.5769
Unmitigated	275.6215	0.1513	0.0907	306.4284

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
City Park	0 / 15.0961	14.1474	7.0000e-004	1.4000e-004	14.2077
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
Retirement Community	50.4944 / 31.8334	115.0646	0.0663	0.0398	128.5931
Single Family Housing	47.8882 / 30.1904	109.1258	0.0628	0.0378	121.9560
<b>Total</b>		<b>275.6215</b>	<b>0.1513</b>	<b>0.0907</b>	<b>306.4284</b>



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.2065 / 8.2925	26.6873	0.0148	8.8500e-003	29.6947
City Park	0 / 14.1752	13.2844	6.5000e-004	1.4000e-004	13.3410
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.89626 / 1.36416	4.4792	2.5000e-003	1.5000e-003	4.9879
Retirement Community	40.3955 / 29.8916	96.1985	0.0532	0.0319	107.0389
Single Family Housing	38.3106 / 28.3488	91.2334	0.0505	0.0303	101.5143
<b>Total</b>		<b>231.8829</b>	<b>0.1216</b>	<b>0.0727</b>	<b>256.5769</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	251.9950	14.8925	0.0000	624.3070
Unmitigated	251.9950	14.8925	0.0000	624.3070

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	502.6446	0.0000	0.0000	502.6446

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Annual

**11.1 Vegetation Land Change**

**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 278.76	- 1,083.275 4	0.0000	0.0000	- 1,083.275 4
<b>Total</b>		- <b>1,083.275</b> <b>4</b>	<b>0.0000</b>	<b>0.0000</b>	- <b>1,083.275</b> <b>4</b>

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920</b> <b>0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920</b> <b>0</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated  
Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

## Project Characteristics - Buildout Year: 2029

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation -

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract).

Water Mitigation - Installation of low-floor indoor water use fixtures, and use of water-efficient irrigation systems (consistent with the current version of Title 24).



## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	2.14E-05	1.5173E-05
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00
tblLandUse	Population	1,968.00	1,533.00
tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	28.06
tblVehicleTrips	ST_TR	2.03	3.20
tblVehicleTrips	ST_TR	9.91	8.70
tblVehicleTrips	SU_TR	5.86	5.36
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.24	28.06

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

tblVehicleTrips	SU_TR	1.95	3.20
tblVehicleTrips	SU_TR	8.62	8.70
tblVehicleTrips	WD_TR	6.65	5.36
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	28.06
tblVehicleTrips	WD_TR	2.40	3.20
tblVehicleTrips	WD_TR	9.52	8.70

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Energy	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
Mobile	11.1907	44.2416	113.6978	0.5075	57.1263	0.2412	57.3674	15.2518	0.2241	15.4759		51,719.1982	51,719.1982	1.7796		51,763.6877
<b>Total</b>	<b>57.5312</b>	<b>53.6153</b>	<b>258.8291</b>	<b>0.5644</b>	<b>57.1263</b>	<b>1.6558</b>	<b>58.7820</b>	<b>15.2518</b>	<b>1.6387</b>	<b>16.8905</b>	<b>0.0000</b>	<b>61,849.5268</b>	<b>61,849.5268</b>	<b>2.2128</b>	<b>0.1810</b>	<b>61,958.7920</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Energy	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
Mobile	10.6565	41.8912	99.2027	0.4367	48.5573	0.2105	48.7678	12.9641	0.1955	13.1596		44,516.2929	44,516.2929	1.5747		44,555.6592
<b>Total</b>	<b>56.9970</b>	<b>51.2649</b>	<b>244.3340</b>	<b>0.4936</b>	<b>48.5573</b>	<b>1.6251</b>	<b>50.1824</b>	<b>12.9641</b>	<b>1.6101</b>	<b>14.5742</b>	<b>0.0000</b>	<b>54,646.6215</b>	<b>54,646.6215</b>	<b>2.0079</b>	<b>0.1810</b>	<b>54,750.7636</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.93	4.38	5.60	12.54	15.00	1.85	14.63	15.00	1.74	13.71	0.00	11.65	11.65	9.26	0.00	11.63

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	1/1/2020	9/8/2020	5	180	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0776	0.0412	0.5877	1.4400e-003	0.1262	9.5000e-004	0.1272	0.0337	8.8000e-004	0.0346		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1262</b>	<b>9.5000e-004</b>	<b>0.1272</b>	<b>0.0337</b>	<b>8.8000e-004</b>	<b>0.0346</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.6565	41.8912	99.2027	0.4367	48.5573	0.2105	48.7678	12.9641	0.1955	13.1596		44,516.29 29	44,516.29 29	1.5747		44,555.65 92
Unmitigated	11.1907	44.2416	113.6978	0.5075	57.1263	0.2412	57.3674	15.2518	0.2241	15.4759		51,719.19 82	51,719.19 82	1.7796		51,763.68 77

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,152.40	1,152.40	1152.40	2,957,184	2,661,466
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	897.92	897.92	897.92	1,254,668	1,129,201
Retirement Community	121.60	121.60	121.60	312,039	280,835
Retirement Community	2,358.40	2,358.40	2358.40	6,051,911	5,446,720
Single Family Housing	6,394.50	6,394.50	6394.50	16,408,984	14,768,086
Total	10,924.82	10,924.82	10,924.82	26,984,786	24,286,308

4.3 Trip Type Information

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Other Asphalt Surfaces	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
NaturalGas Unmitigated	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5742.03	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	475.178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Retirement Community	1259.59	0.0136	0.1161	0.0494	7.4000e-004		9.3900e-003	9.3900e-003		9.3900e-003	9.3900e-003		148.1874	148.1874	2.8400e-003	2.7200e-003	149.0680
Retirement Community	24429.5	0.2635	2.2513	0.9580	0.0144		0.1820	0.1820		0.1820	0.1820		2,874.0553	2,874.0553	0.0551	0.0527	2,891.1344
Single Family Housing	52023.3	0.5610	4.7943	2.0401	0.0306		0.3876	0.3876		0.3876	0.3876		6,120.3859	6,120.3859	0.1173	0.1122	6,156.7563
<b>Total</b>		<b>0.9051</b>	<b>7.7375</b>	<b>3.3119</b>	<b>0.0494</b>		<b>0.6254</b>	<b>0.6254</b>		<b>0.6254</b>	<b>0.6254</b>		<b>9,874.0650</b>	<b>9,874.0650</b>	<b>0.1893</b>	<b>0.1810</b>	<b>9,932.7416</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.74203	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.475178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Retirement Community	1.25959	0.0136	0.1161	0.0494	7.4000e-004		9.3900e-003	9.3900e-003		9.3900e-003	9.3900e-003		148.1874	148.1874	2.8400e-003	2.7200e-003	149.0680
Retirement Community	24.4295	0.2635	2.2513	0.9580	0.0144		0.1820	0.1820		0.1820	0.1820		2,874.0553	2,874.0553	0.0551	0.0527	2,891.1344
Single Family Housing	52.0233	0.5610	4.7943	2.0401	0.0306		0.3876	0.3876		0.3876	0.3876		6,120.3859	6,120.3859	0.1173	0.1122	6,156.7563
<b>Total</b>		<b>0.9051</b>	<b>7.7375</b>	<b>3.3119</b>	<b>0.0494</b>		<b>0.6254</b>	<b>0.6254</b>		<b>0.6254</b>	<b>0.6254</b>		<b>9,874.0650</b>	<b>9,874.0650</b>	<b>0.1893</b>	<b>0.1810</b>	<b>9,932.7416</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Unmitigated	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.1248					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	4.2407	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892		256.2636	256.2636	0.2440		262.3627
<b>Total</b>	<b>45.4354</b>	<b>1.6362</b>	<b>141.8195</b>	<b>7.5200e-003</b>		<b>0.7892</b>	<b>0.7892</b>		<b>0.7892</b>	<b>0.7892</b>	<b>0.0000</b>	<b>256.2636</b>	<b>256.2636</b>	<b>0.2440</b>	<b>0.0000</b>	<b>262.3627</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.1248					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	4.2407	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892		256.2636	256.2636	0.2440		262.3627
<b>Total</b>	<b>45.4354</b>	<b>1.6362</b>	<b>141.8195</b>	<b>7.5200e-003</b>		<b>0.7892</b>	<b>0.7892</b>		<b>0.7892</b>	<b>0.7892</b>	<b>0.0000</b>	<b>256.2636</b>	<b>256.2636</b>	<b>0.2440</b>	<b>0.0000</b>	<b>262.3627</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Summer

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated  
Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

## Project Characteristics - Buildout Year: 2029

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation -

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract).

Water Mitigation - Installation of low-floor indoor water use fixtures, and use of water-efficient irrigation systems (consistent with the current version of Title 24).

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	2.14E-05	1.5173E-05
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00
tblLandUse	Population	1,968.00	1,533.00
tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	28.06
tblVehicleTrips	ST_TR	2.03	3.20
tblVehicleTrips	ST_TR	9.91	8.70
tblVehicleTrips	SU_TR	5.86	5.36
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.24	28.06

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

tblVehicleTrips	SU_TR	1.95	3.20
tblVehicleTrips	SU_TR	8.62	8.70
tblVehicleTrips	WD_TR	6.65	5.36
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	28.06
tblVehicleTrips	WD_TR	2.40	3.20
tblVehicleTrips	WD_TR	9.52	8.70

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Energy	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
Mobile	8.1033	45.9804	103.0139	0.4605	57.1263	0.2423	57.3686	15.2518	0.2252	15.4770		47,001.5129	47,001.5129	1.8071		47,046.6896
<b>Total</b>	<b>54.4438</b>	<b>55.3541</b>	<b>248.1452</b>	<b>0.5174</b>	<b>57.1263</b>	<b>1.6569</b>	<b>58.7832</b>	<b>15.2518</b>	<b>1.6398</b>	<b>16.8916</b>	<b>0.0000</b>	<b>57,131.8415</b>	<b>57,131.8415</b>	<b>2.2403</b>	<b>0.1810</b>	<b>57,241.7940</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Energy	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
Mobile	7.5774	43.3084	91.2448	0.3963	48.5573	0.2116	48.7689	12.9641	0.1966	13.1607		40,454.2516	40,454.2516	1.6093		40,494.4845
<b>Total</b>	<b>53.9179</b>	<b>52.6821</b>	<b>236.3761</b>	<b>0.4532</b>	<b>48.5573</b>	<b>1.6262</b>	<b>50.1835</b>	<b>12.9641</b>	<b>1.6112</b>	<b>14.5753</b>	<b>0.0000</b>	<b>50,584.5802</b>	<b>50,584.5802</b>	<b>2.0425</b>	<b>0.1810</b>	<b>50,689.5888</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.97	4.83	4.74	12.41	15.00	1.85	14.63	15.00	1.74	13.71	0.00	11.46	11.46	8.83	0.00	11.45

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	1/1/2020	9/8/2020	5	180	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0509	0.5032	1.2600e-003	0.1262	9.5000e-004	0.1272	0.0337	8.8000e-004	0.0346		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1262</b>	<b>9.5000e-004</b>	<b>0.1272</b>	<b>0.0337</b>	<b>8.8000e-004</b>	<b>0.0346</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5774	43.3084	91.2448	0.3963	48.5573	0.2116	48.7689	12.9641	0.1966	13.1607		40,454.25 16	40,454.25 16	1.6093		40,494.48 45
Unmitigated	8.1033	45.9804	103.0139	0.4605	57.1263	0.2423	57.3686	15.2518	0.2252	15.4770		47,001.51 29	47,001.51 29	1.8071		47,046.68 96

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,152.40	1,152.40	1152.40	2,957,184	2,661,466
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	897.92	897.92	897.92	1,254,668	1,129,201
Retirement Community	121.60	121.60	121.60	312,039	280,835
Retirement Community	2,358.40	2,358.40	2358.40	6,051,911	5,446,720
Single Family Housing	6,394.50	6,394.50	6394.50	16,408,984	14,768,086
<b>Total</b>	<b>10,924.82</b>	<b>10,924.82</b>	<b>10,924.82</b>	<b>26,984,786</b>	<b>24,286,308</b>

4.3 Trip Type Information

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Other Asphalt Surfaces	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416
NaturalGas Unmitigated	0.9051	7.7375	3.3119	0.0494		0.6254	0.6254		0.6254	0.6254		9,874.0650	9,874.0650	0.1893	0.1810	9,932.7416

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5742.03	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	475.178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Retirement Community	1259.59	0.0136	0.1161	0.0494	7.4000e-004		9.3900e-003	9.3900e-003		9.3900e-003	9.3900e-003		148.1874	148.1874	2.8400e-003	2.7200e-003	149.0680
Retirement Community	24429.5	0.2635	2.2513	0.9580	0.0144		0.1820	0.1820		0.1820	0.1820		2,874.0553	2,874.0553	0.0551	0.0527	2,891.1344
Single Family Housing	52023.3	0.5610	4.7943	2.0401	0.0306		0.3876	0.3876		0.3876	0.3876		6,120.3859	6,120.3859	0.1173	0.1122	6,156.7563
<b>Total</b>		<b>0.9051</b>	<b>7.7375</b>	<b>3.3119</b>	<b>0.0494</b>		<b>0.6254</b>	<b>0.6254</b>		<b>0.6254</b>	<b>0.6254</b>		<b>9,874.0650</b>	<b>9,874.0650</b>	<b>0.1893</b>	<b>0.1810</b>	<b>9,932.7416</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.74203	0.0619	0.5292	0.2252	3.3800e-003		0.0428	0.0428		0.0428	0.0428		675.5331	675.5331	0.0130	0.0124	679.5475
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.475178	5.1200e-003	0.0466	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.9033	55.9033	1.0700e-003	1.0200e-003	56.2355
Retirement Community	1.25959	0.0136	0.1161	0.0494	7.4000e-004		9.3900e-003	9.3900e-003		9.3900e-003	9.3900e-003		148.1874	148.1874	2.8400e-003	2.7200e-003	149.0680
Retirement Community	24.4295	0.2635	2.2513	0.9580	0.0144		0.1820	0.1820		0.1820	0.1820		2,874.0553	2,874.0553	0.0551	0.0527	2,891.1344
Single Family Housing	52.0233	0.5610	4.7943	2.0401	0.0306		0.3876	0.3876		0.3876	0.3876		6,120.3859	6,120.3859	0.1173	0.1122	6,156.7563
<b>Total</b>		<b>0.9051</b>	<b>7.7375</b>	<b>3.3119</b>	<b>0.0494</b>		<b>0.6254</b>	<b>0.6254</b>		<b>0.6254</b>	<b>0.6254</b>		<b>9,874.0650</b>	<b>9,874.0650</b>	<b>0.1893</b>	<b>0.1810</b>	<b>9,932.7416</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627
Unmitigated	45.4354	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892	0.0000	256.2636	256.2636	0.2440	0.0000	262.3627

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.1248					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	4.2407	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892		256.2636	256.2636	0.2440		262.3627
<b>Total</b>	<b>45.4354</b>	<b>1.6362</b>	<b>141.8195</b>	<b>7.5200e-003</b>		<b>0.7892</b>	<b>0.7892</b>		<b>0.7892</b>	<b>0.7892</b>	<b>0.0000</b>	<b>256.2636</b>	<b>256.2636</b>	<b>0.2440</b>	<b>0.0000</b>	<b>262.3627</b>



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.1248					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	4.2407	1.6362	141.8195	7.5200e-003		0.7892	0.7892		0.7892	0.7892		256.2636	256.2636	0.2440		262.3627
<b>Total</b>	<b>45.4354</b>	<b>1.6362</b>	<b>141.8195</b>	<b>7.5200e-003</b>		<b>0.7892</b>	<b>0.7892</b>		<b>0.7892</b>	<b>0.7892</b>	<b>0.0000</b>	<b>256.2636</b>	<b>256.2636</b>	<b>0.2440</b>	<b>0.0000</b>	<b>262.3627</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Unmitigated - Sacramento County, Winter

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

## Project Characteristics - Buildout Year: 2035

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation - Mitigation: Implement Trip Reduction Program (100% employee eligible; voluntary).

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract). Mitigation: Exceed Title 24 by 2%.

Water Mitigation - Install low-floor indoor water use fixtures, and use water-efficient irrigation systems (=current version of Title 24). Mitigation: Apply water conservation strategy (50% native or drought-resistant trees outdoors - assume 25% reduction outdoor).

Fleet Mix -

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConsumerProducts	ROG_EF	2.14E-05	1.52E-05
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00
tblLandUse	Population	1,968.00	1,533.00
tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	28.06
tblVehicleTrips	ST_TR	2.03	3.20
tblVehicleTrips	ST_TR	9.91	8.70
tblVehicleTrips	SU_TR	5.86	5.36
tblVehicleTrips	SU_TR	16.74	0.00

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

tblVehicleTrips	SU_TR	25.24	28.06
tblVehicleTrips	SU_TR	1.95	3.20
tblVehicleTrips	SU_TR	8.62	8.70
tblVehicleTrips	WD_TR	6.65	5.36
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	28.06
tblVehicleTrips	WD_TR	2.40	3.20
tblVehicleTrips	WD_TR	9.52	8.70

## 2.0 Emissions Summary

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.5150	1.5150
2	4-1-2020	6-30-2020	1.5149	1.5149
3	7-1-2020	9-30-2020	1.1653	1.1653
		Highest	1.5150	1.5150

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	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	4,619.0251	4,619.0251	0.1779	0.0603	4,641.4440
Mobile	1.5875	8.2466	18.2704	0.0857	10.0427	0.0439	10.0866	2.6889	0.0408	2.7297	0.0000	7,936.6038	7,936.6038	0.2912	0.0000	7,943.8825
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	235.0189	275.6215	0.1513	0.0907	306.4284
<b>Total</b>	<b>9.8766</b>	<b>9.8632</b>	<b>36.6023</b>	<b>0.0957</b>	<b>10.0427</b>	<b>0.2567</b>	<b>10.2994</b>	<b>2.6889</b>	<b>0.2536</b>	<b>2.9425</b>	<b>292.5976</b>	<b>12,819.7076</b>	<b>13,112.3053</b>	<b>15.5405</b>	<b>0.1510</b>	<b>13,545.8133</b>



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1624	1.3882	0.5942	8.8600e-003		0.1122	0.1122		0.1122	0.1122	0.0000	1,730.6825	1,730.6825	0.0369	0.0307	1,740.7587
Mobile	1.4763	7.7027	15.6969	0.0717	8.2720	0.0374	8.3093	2.2148	0.0347	2.2495	0.0000	6,640.5756	6,640.5756	0.2528	0.0000	6,646.8954
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	214.5410	255.1436	0.1503	0.0905	285.8633
<b>Total</b>	<b>9.7626</b>	<b>9.2953</b>	<b>34.0185</b>	<b>0.0815</b>	<b>8.2720</b>	<b>0.2482</b>	<b>8.5202</b>	<b>2.2148</b>	<b>0.2456</b>	<b>2.4603</b>	<b>292.5976</b>	<b>8,614.8589</b>	<b>8,907.4565</b>	<b>15.3601</b>	<b>0.1212</b>	<b>9,327.5759</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>1.15</b>	<b>5.76</b>	<b>7.06</b>	<b>14.81</b>	<b>17.63</b>	<b>3.31</b>	<b>17.27</b>	<b>17.63</b>	<b>3.17</b>	<b>16.39</b>	<b>0.00</b>	<b>32.80</b>	<b>32.07</b>	<b>1.16</b>	<b>19.73</b>	<b>31.14</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,083.275 4
<b>Total</b>	<b>502.6446</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	1/1/2020	9/8/2020	5	180	

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

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

**Acres of Paving: 5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8761	300.8761	0.0973	0.0000	303.3089
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8761</b>	<b>300.8761</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3089</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0119	9.0000e-005	0.0120	3.1600e-003	8.0000e-005	3.2400e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0119</b>	<b>9.0000e-005</b>	<b>0.0120</b>	<b>3.1600e-003</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**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					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8758	300.8758	0.0973	0.0000	303.3085
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8758</b>	<b>300.8758</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3085</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0110	9.0000e-005	0.0111	2.9400e-003	8.0000e-005	3.0200e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0110</b>	<b>9.0000e-005</b>	<b>0.0111</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network
- Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4763	7.7027	15.6969	0.0717	8.2720	0.0374	8.3093	2.2148	0.0347	2.2495	0.0000	6,640.5756	6,640.5756	0.2528	0.0000	6,646.8954
Unmitigated	1.5875	8.2466	18.2704	0.0857	10.0427	0.0439	10.0866	2.6889	0.0408	2.7297	0.0000	7,936.6038	7,936.6038	0.2912	0.0000	7,943.8825

4.2 Trip Summary Information

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,152.40	1,152.40	1152.40	2,957,184	2,580,422
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	897.92	897.92	897.92	1,254,668	1,082,369
Retirement Community	121.60	121.60	121.60	312,039	272,283
Retirement Community	2,358.40	2,358.40	2358.40	6,051,911	5,280,864
Single Family Housing	6,394.50	6,394.50	6394.50	16,408,984	14,318,387
<b>Total</b>	<b>10,924.82</b>	<b>10,924.82</b>	<b>10,924.82</b>	<b>26,984,786</b>	<b>23,534,324</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Other Asphalt Surfaces	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Regional Shopping Center	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Retirement Community	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	123.6369	123.6369	6.0700e-003	1.2600e-003	124.1632
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,984.2630	2,984.2630	0.1466	0.0303	2,996.9672
NaturalGas Mitigated	0.1624	1.3882	0.5942	8.8600e-003			0.1122	0.1122		0.1122	0.0000	1,607.0456	1,607.0456	0.0308	0.0295	1,616.5955
NaturalGas Unmitigated	0.1652	1.4121	0.6044	9.0100e-003			0.1141	0.1141		0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067	
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104	
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799	
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597	
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201	
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>	

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.06548e+006	0.0111	0.0952	0.0405	6.1000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	110.2218	110.2218	2.1100e-003	2.0200e-003	110.8768
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	170566	9.2000e-004	8.3600e-003	7.0200e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.1021	9.1021	1.7000e-004	1.7000e-004	9.1562
Retirement Community	452598	2.4400e-003	0.0209	8.8700e-003	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	24.1524	24.1524	4.6000e-004	4.4000e-004	24.2959
Retirement Community	8.77803e+006	0.0473	0.4045	0.1721	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.4290	468.4290	8.9800e-003	8.5900e-003	471.2126
Single Family Housing	1.86482e+007	0.1006	0.8593	0.3657	5.4800e-003		0.0695	0.0695		0.0695	0.0695	0.0000	995.1404	995.1404	0.0191	0.0182	1,001.0540
<b>Total</b>		<b>0.1624</b>	<b>1.3882</b>	<b>0.5942</b>	<b>8.8500e-003</b>		<b>0.1122</b>	<b>0.1122</b>		<b>0.1122</b>	<b>0.1122</b>	<b>0.0000</b>	<b>1,607.0456</b>	<b>1,607.0456</b>	<b>0.0308</b>	<b>0.0295</b>	<b>1,616.5955</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22869	6.1234	3.0000e-004	6.0000e-005	6.1495
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
Retirement Community	178029	47.6691	2.3400e-003	4.8000e-004	47.8721
Retirement Community	3.45283e+006	924.5302	0.0454	9.4000e-003	928.4660
Single Family Housing	6.20618e+006	1,661.7670	0.0816	0.0169	1,668.8413
<b>Total</b>		<b>2,984.2630</b>	<b>0.1466</b>	<b>0.0303</b>	<b>2,996.9672</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	38817.8	10.3939	5.1000e-004	1.1000e-004	10.4381
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	325.883	0.0873	0.0000	0.0000	0.0876
Regional Shopping Center	12063	3.2300	1.6000e-004	3.0000e-005	3.2437
Retirement Community	141866	37.9861	1.8700e-003	3.9000e-004	38.1478
Retirement Community	7314.68	1.9586	1.0000e-004	2.0000e-005	1.9669
Single Family Housing	261358	69.9811	3.4400e-003	7.1000e-004	70.2790
<b>Total</b>		<b>123.6369</b>	<b>6.0800e-003</b>	<b>1.2600e-003</b>	<b>124.1632</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Unmitigated	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6625					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.1240</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6625					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.1240</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Turf Reduction

Use Water Efficient Irrigation System

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	255.1436	0.1503	0.0905	285.8633
Unmitigated	275.6215	0.1513	0.0907	306.4284



The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
City Park	0 / 15.0961	14.1474	7.0000e-004	1.4000e-004	14.2077
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
Retirement Community	50.4944 / 31.8334	115.0646	0.0663	0.0398	128.5931
Single Family Housing	47.8882 / 30.1904	109.1258	0.0628	0.0378	121.9560
<b>Total</b>		<b>275.6215</b>	<b>0.1513</b>	<b>0.0907</b>	<b>306.4284</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 6.6234	29.8521	0.0183	0.0110	33.5963
City Park	0 / 11.3221	10.6106	5.2000e-004	1.1000e-004	10.6558
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.08958	5.0221	3.0900e-003	1.8700e-003	5.6555
Retirement Community	50.4944 / 23.8751	107.6064	0.0659	0.0398	121.1031
Single Family Housing	47.8882 / 22.6428	102.0525	0.0625	0.0377	114.8526
<b>Total</b>		<b>255.1436</b>	<b>0.1503</b>	<b>0.0905</b>	<b>285.8633</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	251.9950	14.8925	0.0000	624.3070
Unmitigated	251.9950	14.8925	0.0000	624.3070

## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	502.6446	0.0000	0.0000	502.6446

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only) Mitigated - Sacramento County, Annual

**11.1 Vegetation Land Change**

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 278.76	- 1,083.275 4	0.0000	0.0000	- 1,083.275 4
<b>Total</b>		- <b>1,083.275</b> <b>4</b>	<b>0.0000</b>	<b>0.0000</b>	- <b>1,083.275</b> <b>4</b>

**11.2 Net New Trees**

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920</b> <b>0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920</b> <b>0</b>

The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only - without passenger cars - Sacramento County, Annual

**The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only - without passenger cars  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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



## The Ranch - City of Rancho Cordova (Full Buildout - 2035 - Operational Only - without passenger cars - Sacramento County, Annual

## Project Characteristics - Buildout Year: 2035

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation -

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract).

Water Mitigation - Installation of low-floor indoor water use fixtures, and use of water-efficient irrigation systems (consistent with the current version of Title 24).

Fleet Mix - Adjusted to account for the removal of passenger and light duty trucks for operational GHG emissions, per SB 375.





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tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01

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tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00
tblLandUse	Population	1,968.00	1,533.00

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tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	0.93
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	4.89
tblVehicleTrips	ST_TR	2.03	0.56
tblVehicleTrips	ST_TR	9.91	1.52
tblVehicleTrips	SU_TR	5.86	0.93
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.24	4.89
tblVehicleTrips	SU_TR	1.95	0.56
tblVehicleTrips	SU_TR	8.62	1.52
tblVehicleTrips	WD_TR	6.65	0.93
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	4.89
tblVehicleTrips	WD_TR	2.40	0.56
tblVehicleTrips	WD_TR	9.52	1.52

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-17-2019	10-16-2019	1.6441	1.6441
2	10-17-2019	1-16-2020	1.6247	1.6247
3	1-17-2020	4-16-2020	1.1321	1.1321
		Highest	1.6441	1.6441

**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	8.0598	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	4,619.0251	4,619.0251	0.1779	0.0603	4,641.4440
Mobile	0.9301	7.5633	7.6537	0.0370	1.8751	0.0164	1.8915	0.5180	0.0155	0.5335	0.0000	3,525.3253	3,525.3253	0.2451	0.0000	3,531.4537
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	235.0189	275.6215	0.1513	0.0907	306.4284
<b>Total</b>	<b>9.1551</b>	<b>9.1799</b>	<b>25.9855</b>	<b>0.0470</b>	<b>1.8751</b>	<b>0.2292</b>	<b>2.1042</b>	<b>0.5180</b>	<b>0.2283</b>	<b>0.7463</b>	<b>292.5976</b>	<b>8,408.4291</b>	<b>8,701.0267</b>	<b>15.4945</b>	<b>0.1510</b>	<b>9,133.3844</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0598	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	1,758.6933	1,758.6933	0.0374	0.0312	1,768.9354
Mobile	0.8524	7.1910	6.7575	0.0322	1.5938	0.0142	1.6080	0.4403	0.0134	0.4537	0.0000	3,063.3562	3,063.3562	0.2186	0.0000	3,068.8218
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	32.4821	199.4008	231.8829	0.1216	0.0727	256.5769
<b>Total</b>	<b>9.0774</b>	<b>8.8076</b>	<b>25.0894</b>	<b>0.0421</b>	<b>1.5938</b>	<b>0.2270</b>	<b>1.8208</b>	<b>0.4403</b>	<b>0.2262</b>	<b>0.6665</b>	<b>284.4771</b>	<b>5,050.5101</b>	<b>5,334.9872</b>	<b>15.2978</b>	<b>0.1039</b>	<b>5,748.3925</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.85</b>	<b>4.06</b>	<b>3.45</b>	<b>10.35</b>	<b>15.00</b>	<b>0.97</b>	<b>13.47</b>	<b>15.00</b>	<b>0.92</b>	<b>10.69</b>	<b>2.78</b>	<b>39.94</b>	<b>38.69</b>	<b>1.27</b>	<b>31.19</b>	<b>37.06</b>

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### 2.3 Vegetation

#### Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,083.275 4
<b>Total</b>	<b>502.6446</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	7/17/2019	3/24/2020	5	180	

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

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

**Acres of Paving: 5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0840	0.0000	1.0840	0.5958	0.0000	0.5958	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2601	2.7344	1.3238	2.2800e-003		0.1434	0.1434		0.1320	0.1320	0.0000	205.0121	205.0121	0.0649	0.0000	206.6337
<b>Total</b>	<b>0.2601</b>	<b>2.7344</b>	<b>1.3238</b>	<b>2.2800e-003</b>	<b>1.0840</b>	<b>0.1434</b>	<b>1.2274</b>	<b>0.5958</b>	<b>0.1320</b>	<b>0.7278</b>	<b>0.0000</b>	<b>205.0121</b>	<b>205.0121</b>	<b>0.0649</b>	<b>0.0000</b>	<b>206.6337</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2019**

**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	4.3700e-003	3.0700e-003	0.0331	8.0000e-005	7.9300e-003	6.0000e-005	7.9900e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	7.2508	7.2508	2.3000e-004	0.0000	7.2565
<b>Total</b>	<b>4.3700e-003</b>	<b>3.0700e-003</b>	<b>0.0331</b>	<b>8.0000e-005</b>	<b>7.9300e-003</b>	<b>6.0000e-005</b>	<b>7.9900e-003</b>	<b>2.1100e-003</b>	<b>5.0000e-005</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>7.2508</b>	<b>7.2508</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.2565</b>

**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					1.0840	0.0000	1.0840	0.5958	0.0000	0.5958	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2601	2.7344	1.3238	2.2800e-003		0.1434	0.1434		0.1320	0.1320	0.0000	205.0119	205.0119	0.0649	0.0000	206.6335
<b>Total</b>	<b>0.2601</b>	<b>2.7344</b>	<b>1.3238</b>	<b>2.2800e-003</b>	<b>1.0840</b>	<b>0.1434</b>	<b>1.2274</b>	<b>0.5958</b>	<b>0.1320</b>	<b>0.7278</b>	<b>0.0000</b>	<b>205.0119</b>	<b>205.0119</b>	<b>0.0649</b>	<b>0.0000</b>	<b>206.6335</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2019**

**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	4.3700e-003	3.0700e-003	0.0331	8.0000e-005	7.3100e-003	6.0000e-005	7.3700e-003	1.9600e-003	5.0000e-005	2.0100e-003	0.0000	7.2508	7.2508	2.3000e-004	0.0000	7.2565
<b>Total</b>	<b>4.3700e-003</b>	<b>3.0700e-003</b>	<b>0.0331</b>	<b>8.0000e-005</b>	<b>7.3100e-003</b>	<b>6.0000e-005</b>	<b>7.3700e-003</b>	<b>1.9600e-003</b>	<b>5.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>7.2508</b>	<b>7.2508</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.2565</b>

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2920	100.2920	0.0324	0.0000	101.1030
<b>Total</b>	<b>0.1223</b>	<b>1.2725</b>	<b>0.6454</b>	<b>1.1400e-003</b>	<b>0.5420</b>	<b>0.0659</b>	<b>0.6079</b>	<b>0.2979</b>	<b>0.0607</b>	<b>0.3586</b>	<b>0.0000</b>	<b>100.2920</b>	<b>100.2920</b>	<b>0.0324</b>	<b>0.0000</b>	<b>101.1030</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	2.0100e-003	1.3600e-003	0.0150	4.0000e-005	3.9700e-003	3.0000e-005	3.9900e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5140	3.5140	1.0000e-004	0.0000	3.5165
<b>Total</b>	<b>2.0100e-003</b>	<b>1.3600e-003</b>	<b>0.0150</b>	<b>4.0000e-005</b>	<b>3.9700e-003</b>	<b>3.0000e-005</b>	<b>3.9900e-003</b>	<b>1.0500e-003</b>	<b>3.0000e-005</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.5140</b>	<b>3.5140</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.5165</b>

**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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1223	1.2725	0.6454	1.1400e-003		0.0659	0.0659		0.0607	0.0607	0.0000	100.2919	100.2919	0.0324	0.0000	101.1028
<b>Total</b>	<b>0.1223</b>	<b>1.2725</b>	<b>0.6454</b>	<b>1.1400e-003</b>	<b>0.5420</b>	<b>0.0659</b>	<b>0.6079</b>	<b>0.2979</b>	<b>0.0607</b>	<b>0.3586</b>	<b>0.0000</b>	<b>100.2919</b>	<b>100.2919</b>	<b>0.0324</b>	<b>0.0000</b>	<b>101.1028</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	2.0100e-003	1.3600e-003	0.0150	4.0000e-005	3.6600e-003	3.0000e-005	3.6900e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.5140	3.5140	1.0000e-004	0.0000	3.5165
<b>Total</b>	<b>2.0100e-003</b>	<b>1.3600e-003</b>	<b>0.0150</b>	<b>4.0000e-005</b>	<b>3.6600e-003</b>	<b>3.0000e-005</b>	<b>3.6900e-003</b>	<b>9.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.5140</b>	<b>3.5140</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.5165</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8524	7.1910	6.7575	0.0322	1.5938	0.0142	1.6080	0.4403	0.0134	0.4537	0.0000	3,063.356 2	3,063.356 2	0.2186	0.0000	3,068.821 8
Unmitigated	0.9301	7.5633	7.6537	0.0370	1.8751	0.0164	1.8915	0.5180	0.0155	0.5335	0.0000	3,525.325 3	3,525.325 3	0.2451	0.0000	3,531.453 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	199.95	199.95	199.95	513,093	461,784
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	156.48	156.48	156.48	218,650	196,785
Retirement Community	21.28	21.28	21.28	54,607	49,146
Retirement Community	412.72	412.72	412.72	1,059,085	953,176
Single Family Housing	1,117.20	1,117.20	1,117.20	2,866,857	2,580,171
Total	1,907.63	1,907.63	1,907.63	4,712,292	4,241,063

4.3 Trip Type Information



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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
City Park	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Parking Lot	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Regional Shopping Center	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Retirement Community	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Single Family Housing	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.9311	123.9311	6.0900e-003	1.2600e-003	124.4587
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,984.2630	2,984.2630	0.1466	0.0303	2,996.9672
NaturalGas Mitigated	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768
NaturalGas Unmitigated	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22869	6.1234	3.0000e-004	6.0000e-005	6.1495
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
Retirement Community	178029	47.6691	2.3400e-003	4.8000e-004	47.8721
Retirement Community	3.45283e+006	924.5302	0.0454	9.4000e-003	928.4660
Single Family Housing	6.20618e+006	1,661.7670	0.0816	0.0169	1,668.8413
<b>Total</b>		<b>2,984.2630</b>	<b>0.1466</b>	<b>0.0303</b>	<b>2,996.9672</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	38916.9	10.4204	5.1000e-004	1.1000e-004	10.4647
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	325.883	0.0873	0.0000	0.0000	0.0876
Regional Shopping Center	12167.3	3.2579	1.6000e-004	3.0000e-005	3.2718
Retirement Community	142243	38.0870	1.8700e-003	3.9000e-004	38.2491
Retirement Community	7334.1	1.9638	1.0000e-004	2.0000e-005	1.9721
Single Family Housing	261857	70.1147	3.4400e-003	7.1000e-004	70.4132
<b>Total</b>		<b>123.9311</b>	<b>6.0800e-003</b>	<b>1.2600e-003</b>	<b>124.4586</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0598	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Unmitigated	8.0598	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6045					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.0598</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6045					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.0598</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	231.8829	0.1216	0.0727	256.5769
Unmitigated	275.6215	0.1513	0.0907	306.4284

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
City Park	0 / 15.0961	14.1474	7.0000e-004	1.4000e-004	14.2077
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
Retirement Community	50.4944 / 31.8334	115.0646	0.0663	0.0398	128.5931
Single Family Housing	47.8882 / 30.1904	109.1258	0.0628	0.0378	121.9560
<b>Total</b>		<b>275.6215</b>	<b>0.1513</b>	<b>0.0907</b>	<b>306.4284</b>

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## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.2065 / 8.2925	26.6873	0.0148	8.8500e-003	29.6947
City Park	0 / 14.1752	13.2844	6.5000e-004	1.4000e-004	13.3410
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.89626 / 1.36416	4.4792	2.5000e-003	1.5000e-003	4.9879
Retirement Community	40.3955 / 29.8916	96.1985	0.0532	0.0319	107.0389
Single Family Housing	38.3106 / 28.3488	91.2334	0.0505	0.0303	101.5143
<b>Total</b>		<b>231.8829</b>	<b>0.1216</b>	<b>0.0727</b>	<b>256.5769</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	251.9950	14.8925	0.0000	624.3070
Unmitigated	251.9950	14.8925	0.0000	624.3070

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	502.6446	0.0000	0.0000	502.6446

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### 11.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 278.76	- 1,083.275 4	0.0000	0.0000	- 1,083.275 4
<b>Total</b>		- <b>1,083.275</b> 4	<b>0.0000</b>	<b>0.0000</b>	- <b>1,083.275</b> 4

### 11.2 Net New Trees

#### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920</b> 0	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920</b> 0



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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Asphalt Surfaces	2.50	Acre	2.50	108,900.00	0
Parking Lot	1.50	Acre	1.50	65,340.00	0
City Park	9.10	Acre	9.28	396,396.00	0
City Park	3.07	Acre	3.69	133,729.20	0
City Park	0.50	Acre	1.40	21,780.00	0
Apartments Mid Rise	215.00	Dwelling Unit	7.17	215,000.00	621
Retirement Community	38.00	Dwelling Unit	1.26	38,000.00	78
Retirement Community	737.00	Dwelling Unit	90.91	737,000.00	1533
Single Family Housing	735.00	Dwelling Unit	77.87	1,323,000.00	2087
Regional Shopping Center	32.00	1000sqft	5.16	32,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

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## Project Characteristics - Buildout Year: 2035

Land Use - Land use info as provided by the unit counts/gross acres/sf provided by applicant. 8,000sf restroom is in the 9.1acre park. 21,000sf clubhouse/restroom is incl. in the 3.07ac city park. Pop. as provided in the Pop & Housing section of the EIR.

Construction Phase - Note - constructed not modeled under this (operational) scenario.

Off-road Equipment -

Trips and VMT -

Grading - Assumes whole project site is graded (except for protected areas) = 319.9 acres. 152,708 CY of material exported from project site (as provided by the Project Applicant).

Architectural Coating -

Vehicle Trips - Trip rates used from Traffic Impact Memo (June, 2019), inclusive of average internal capture rate the traffic consultant applied to AM and PM peak hours. Park trips are assumed to be accounted for by the land uses provided in the Traffic Impact Memo.

Road Dust - Project will not have unpaved roads during the project's operational phase. Since the project is in the SMAQMD jurisdiction, project uses the CARB's 2.0 and 0.2 method (per CalEEMod User Guidebook).

Woodstoves - No fireplaces.

Consumer Products - 'General Category' consumer products EF red. by 29.1% - reflects project person/du value (2.504) vs. statewide avg. (2.97) and latest statewide data (ARB).

Area Coating - Maximum 50 g/l for flat coatings SMAQMD Rule 442. Assume flat coatings are used for interior coatings.

Landscape Equipment -

Energy Use -

Land Use Change - Assumes residential, commercial, and right-of-way are converted from grassland. Total acres = 530.1 - 77.87 - 90.91 - 7.17 - 5.16 - 32.3 - 20.59 - 17.34 = 278.76 acres

Sequestration - Approximately 2,240 new trees planted as part of the project (provided by project applicant).

Construction Off-road Equipment Mitigation - NOTE: This model run reflects operational emissions only.

Mobile Land Use Mitigation - Density = ~6.86 du/acre. Increase walkability design (123.53 int/sq. mile). Improve ped network. Provide traffic calming (50%/50%). 100% increase in transit coverage (current coverage=0). Provide Transit Accessibility (0.25 mile)

Mobile Commute Mitigation - Mitigation: Implement Trip Reduction Program (100% employee eligible; voluntary).

Area Mitigation - No hearths are to be installed as part of the proposed project. Flat (i.e. non-reflective) paints are assumed for projects building interiors. (see SMAQMD Rule 442 - maximum VOC content for flat paints is 50 g/L).

Energy Mitigation - High-efficiency lighting (LEDs) (71.5% improvement). EE appliances. 95% electricity generated via renewables (on-site or SMUD contract). Mitigation: Exceed Title 24 by 2%.

Water Mitigation - Install low-floor indoor water use fixtures, and use water-efficient irrigation systems (=current version of Title 24). Mitigation: Apply water conservation strategy (50% native or drought-resistant trees outdoors - assume 25% reduction outdoor).

Fleet Mix - Mobile vehicle trips updated to remove passenger cars and light-duty trucks, per SB 375.



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tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	LHD2	4.3250e-003	0.02
tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MCY	5.3920e-003	0.03

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tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MCY	5.3920e-003	0.03
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MDV	0.10	0.60
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MH	5.6600e-004	3.2479e-003
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01

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tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	OBUS	1.8520e-003	0.01
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	SBUS	5.9800e-004	3.4315e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblFleetMix	UBUS	1.3620e-003	7.8155e-003
tblLandUse	LotAcreage	0.50	1.40
tblLandUse	LotAcreage	3.07	3.69
tblLandUse	LotAcreage	9.10	9.28
tblLandUse	LotAcreage	5.66	7.17
tblLandUse	LotAcreage	7.60	1.26
tblLandUse	LotAcreage	147.40	90.91
tblLandUse	LotAcreage	238.64	77.87
tblLandUse	LotAcreage	0.73	5.16
tblLandUse	Population	574.00	621.00
tblLandUse	Population	101.00	78.00

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tblLandUse	Population	1,968.00	1,533.00
tblLandUse	Population	1,962.00	2,087.00
tblSequestration	NumberOfNewTrees	0.00	2,240.00
tblVehicleTrips	ST_TR	6.39	0.93
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	49.97	4.89
tblVehicleTrips	ST_TR	2.03	0.56
tblVehicleTrips	ST_TR	9.91	1.52
tblVehicleTrips	SU_TR	5.86	0.93
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.24	4.89
tblVehicleTrips	SU_TR	1.95	0.56
tblVehicleTrips	SU_TR	8.62	1.52
tblVehicleTrips	WD_TR	6.65	0.93
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	42.70	4.89
tblVehicleTrips	WD_TR	2.40	0.56
tblVehicleTrips	WD_TR	9.52	1.52

## 2.0 Emissions Summary

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The Ranch (Full Buildout - 2035 - Operational Only - without passenger vehicles\_mitigated - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.5150	1.5150
2	4-1-2020	6-30-2020	1.5149	1.5149
3	7-1-2020	9-30-2020	1.1653	1.1653
		Highest	1.5150	1.5150

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	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1652	1.4121	0.6044	9.0100e-003		0.1141	0.1141		0.1141	0.1141	0.0000	4,619.0251	4,619.0251	0.1779	0.0603	4,641.4440
Mobile	0.9301	7.5633	7.6537	0.0370	1.8751	0.0164	1.8915	0.5180	0.0155	0.5335	0.0000	3,525.3253	3,525.3253	0.2451	0.0000	3,531.4537
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	235.0189	275.6215	0.1513	0.0907	306.4284
<b>Total</b>	<b>9.2193</b>	<b>9.1799</b>	<b>25.9855</b>	<b>0.0470</b>	<b>1.8751</b>	<b>0.2292</b>	<b>2.1042</b>	<b>0.5180</b>	<b>0.2283</b>	<b>0.7463</b>	<b>292.5976</b>	<b>8,408.4291</b>	<b>8,701.0267</b>	<b>15.4945</b>	<b>0.1510</b>	<b>9,133.3844</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Energy	0.1624	1.3882	0.5942	8.8600e-003		0.1122	0.1122		0.1122	0.1122	0.0000	1,730.6825	1,730.6825	0.0369	0.0307	1,740.7587
Mobile	0.8387	7.1256	6.6003	0.0313	1.5445	0.0138	1.5582	0.4267	0.0130	0.4397	0.0000	2,982.3026	2,982.3026	0.2140	0.0000	2,987.6519
Waste						0.0000	0.0000		0.0000	0.0000	251.9950	0.0000	251.9950	14.8925	0.0000	624.3070
Water						0.0000	0.0000		0.0000	0.0000	40.6026	214.5410	255.1436	0.1503	0.0905	285.8633
<b>Total</b>	<b>9.1251</b>	<b>8.7183</b>	<b>24.9219</b>	<b>0.0411</b>	<b>1.5445</b>	<b>0.2246</b>	<b>1.7691</b>	<b>0.4267</b>	<b>0.2239</b>	<b>0.6506</b>	<b>292.5976</b>	<b>4,956.5859</b>	<b>5,249.1836</b>	<b>15.3213</b>	<b>0.1212</b>	<b>5,668.3324</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>1.02</b>	<b>5.03</b>	<b>4.09</b>	<b>12.48</b>	<b>17.63</b>	<b>1.99</b>	<b>15.93</b>	<b>17.63</b>	<b>1.94</b>	<b>12.83</b>	<b>0.00</b>	<b>41.05</b>	<b>39.67</b>	<b>1.12</b>	<b>19.73</b>	<b>37.94</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	1,585.920 0
Vegetation Land Change	- 1,083.275 4
<b>Total</b>	<b>502.6446</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Placeholder (see Construction model for Construction Emissions)	Site Preparation	1/1/2020	9/8/2020	5	180	

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

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

**Acres of Paving: 5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Placeholder (see Construction model for Construction Emissions)	Rubber Tired Dozers	3	8.00	247	0.40
Placeholder (see Construction model for Construction Emissions)	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Placeholder (see Construction model for)	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Clean Paved Roads

**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8761	300.8761	0.0973	0.0000	303.3089
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8761</b>	<b>300.8761</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3089</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0119	9.0000e-005	0.0120	3.1600e-003	8.0000e-005	3.2400e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0119</b>	<b>9.0000e-005</b>	<b>0.0120</b>	<b>3.1600e-003</b>	<b>8.0000e-005</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**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					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3669	3.8176	1.9362	3.4200e-003		0.1978	0.1978		0.1820	0.1820	0.0000	300.8758	300.8758	0.0973	0.0000	303.3085
<b>Total</b>	<b>0.3669</b>	<b>3.8176</b>	<b>1.9362</b>	<b>3.4200e-003</b>	<b>1.6260</b>	<b>0.1978</b>	<b>1.8237</b>	<b>0.8938</b>	<b>0.1820</b>	<b>1.0757</b>	<b>0.0000</b>	<b>300.8758</b>	<b>300.8758</b>	<b>0.0973</b>	<b>0.0000</b>	<b>303.3085</b>

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**3.2 Placeholder (see Construction model for Construction Emissions) - 2020**

**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	6.0300e-003	4.0900e-003	0.0448	1.2000e-004	0.0110	9.0000e-005	0.0111	2.9400e-003	8.0000e-005	3.0200e-003	0.0000	10.5419	10.5419	3.0000e-004	0.0000	10.5494
<b>Total</b>	<b>6.0300e-003</b>	<b>4.0900e-003</b>	<b>0.0448</b>	<b>1.2000e-004</b>	<b>0.0110</b>	<b>9.0000e-005</b>	<b>0.0111</b>	<b>2.9400e-003</b>	<b>8.0000e-005</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>10.5419</b>	<b>10.5419</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>10.5494</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

The Ranch (Full Buildout - 2035 - Operational Only - without passenger vehicles\_mitigated - Sacramento County, Annual

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Implement NEV Network
- Expand Transit Network
- Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8387	7.1256	6.6003	0.0313	1.5445	0.0138	1.5582	0.4267	0.0130	0.4397	0.0000	2,982.3026	2,982.3026	0.2140	0.0000	2,987.6519
Unmitigated	0.9301	7.5633	7.6537	0.0370	1.8751	0.0164	1.8915	0.5180	0.0155	0.5335	0.0000	3,525.3253	3,525.3253	0.2451	0.0000	3,531.4537

4.2 Trip Summary Information

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	199.95	199.95	199.95	513,093	447,722
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	156.48	156.48	156.48	218,650	188,624
Retirement Community	21.28	21.28	21.28	54,607	47,650
Retirement Community	412.72	412.72	412.72	1,059,085	924,151
Single Family Housing	1,117.20	1,117.20	1,117.20	2,866,857	2,501,603
<b>Total</b>	<b>1,907.63</b>	<b>1,907.63</b>	<b>1,907.63</b>	<b>4,712,292</b>	<b>4,109,750</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
City Park	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Parking Lot	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Regional Shopping Center	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Retirement Community	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248
Single Family Housing	0.000000	0.000000	0.000000	0.599599	0.060987	0.024818	0.107513	0.151020	0.010627	0.007816	0.030941	0.003431	0.003248

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	123.6369	123.6369	6.0700e-003	1.2600e-003	124.1632
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,984.2630	2,984.2630	0.1466	0.0303	2,996.9672
NaturalGas Mitigated	0.1624	1.3882	0.5942	8.8600e-003			0.1122	0.1122		0.1122	0.0000	1,607.0456	1,607.0456	0.0308	0.0295	1,616.5955
NaturalGas Unmitigated	0.1652	1.4121	0.6044	9.0100e-003			0.1141	0.1141		0.1141	0.0000	1,634.7622	1,634.7622	0.0313	0.0300	1,644.4768

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.09584e+006	0.0113	0.0966	0.0411	6.2000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	111.8421	111.8421	2.1400e-003	2.0500e-003	112.5067
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	173440	9.4000e-004	8.5000e-003	7.1400e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2554	9.2554	1.8000e-004	1.7000e-004	9.3104
Retirement Community	459751	2.4800e-003	0.0212	9.0100e-003	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5341	24.5341	4.7000e-004	4.5000e-004	24.6799
Retirement Community	8.91676e+006	0.0481	0.4109	0.1748	2.6200e-003		0.0332	0.0332		0.0332	0.0332	0.0000	475.8321	475.8321	9.1200e-003	8.7200e-003	478.6597
Single Family Housing	1.89885e+007	0.1024	0.8750	0.3723	5.5800e-003		0.0707	0.0707		0.0707	0.0707	0.0000	1,013.2985	1,013.2985	0.0194	0.0186	1,019.3201
<b>Total</b>		<b>0.1652</b>	<b>1.4121</b>	<b>0.6044</b>	<b>9.0100e-003</b>		<b>0.1141</b>	<b>0.1141</b>		<b>0.1141</b>	<b>0.1141</b>	<b>0.0000</b>	<b>1,634.7622</b>	<b>1,634.7622</b>	<b>0.0313</b>	<b>0.0300</b>	<b>1,644.4768</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.06548e+006	0.0111	0.0952	0.0405	6.1000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	110.2218	110.2218	2.1100e-003	2.0200e-003	110.8768
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	170566	9.2000e-004	8.3600e-003	7.0200e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.1021	9.1021	1.7000e-004	1.7000e-004	9.1562
Retirement Community	452598	2.4400e-003	0.0209	8.8700e-003	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	24.1524	24.1524	4.6000e-004	4.4000e-004	24.2959
Retirement Community	8.77803e+006	0.0473	0.4045	0.1721	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.4290	468.4290	8.9800e-003	8.5900e-003	471.2126
Single Family Housing	1.86482e+007	0.1006	0.8593	0.3657	5.4800e-003		0.0695	0.0695		0.0695	0.0695	0.0000	995.1404	995.1404	0.0191	0.0182	1,001.0540
<b>Total</b>		<b>0.1624</b>	<b>1.3882</b>	<b>0.5942</b>	<b>8.8500e-003</b>		<b>0.1122</b>	<b>0.1122</b>		<b>0.1122</b>	<b>0.1122</b>	<b>0.0000</b>	<b>1,607.0456</b>	<b>1,607.0456</b>	<b>0.0308</b>	<b>0.0295</b>	<b>1,616.5955</b>

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	915139	245.0377	0.0120	2.4900e-003	246.0808
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22869	6.1234	3.0000e-004	6.0000e-005	6.1495
Regional Shopping Center	370240	99.1355	4.8700e-003	1.0100e-003	99.5575
Retirement Community	178029	47.6691	2.3400e-003	4.8000e-004	47.8721
Retirement Community	3.45283e+006	924.5302	0.0454	9.4000e-003	928.4660
Single Family Housing	6.20618e+006	1,661.7670	0.0816	0.0169	1,668.8413
<b>Total</b>		<b>2,984.2630</b>	<b>0.1466</b>	<b>0.0303</b>	<b>2,996.9672</b>

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	38817.8	10.3939	5.1000e-004	1.1000e-004	10.4381
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	325.883	0.0873	0.0000	0.0000	0.0876
Regional Shopping Center	12063	3.2300	1.6000e-004	3.0000e-005	3.2437
Retirement Community	141866	37.9861	1.8700e-003	3.9000e-004	38.1478
Retirement Community	7314.68	1.9586	1.0000e-004	2.0000e-005	1.9669
Single Family Housing	261358	69.9811	3.4400e-003	7.1000e-004	70.2790
<b>Total</b>		<b>123.6369</b>	<b>6.0800e-003</b>	<b>1.2600e-003</b>	<b>124.1632</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Non-Residential Interior

No Hearths Installed

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
Unmitigated	8.1240	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6625					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.1240</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6625					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	0.5301	0.2045	17.7274	9.4000e-004		0.0987	0.0987		0.0987	0.0987	0.0000	29.0598	29.0598	0.0277	0.0000	29.7514
<b>Total</b>	<b>8.1240</b>	<b>0.2045</b>	<b>17.7274</b>	<b>9.4000e-004</b>		<b>0.0987</b>	<b>0.0987</b>		<b>0.0987</b>	<b>0.0987</b>	<b>0.0000</b>	<b>29.0598</b>	<b>29.0598</b>	<b>0.0277</b>	<b>0.0000</b>	<b>29.7514</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Apply Water Conservation Strategy
- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Turf Reduction
- Use Water Efficient Irrigation System



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	255.1436	0.1503	0.0905	285.8633
Unmitigated	275.6215	0.1513	0.0907	306.4284

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 8.8312	31.9212	0.0184	0.0111	35.6742
City Park	0 / 15.0961	14.1474	7.0000e-004	1.4000e-004	14.2077
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.45278	5.3625	3.1100e-003	1.8700e-003	5.9973
Retirement Community	50.4944 / 31.8334	115.0646	0.0663	0.0398	128.5931
Single Family Housing	47.8882 / 30.1904	109.1258	0.0628	0.0378	121.9560
<b>Total</b>		<b>275.6215</b>	<b>0.1513</b>	<b>0.0907</b>	<b>306.4284</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.0081 / 6.6234	29.8521	0.0183	0.0110	33.5963
City Park	0 / 11.3221	10.6106	5.2000e-004	1.1000e-004	10.6558
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.08958	5.0221	3.0900e-003	1.8700e-003	5.6555
Retirement Community	50.4944 / 23.8751	107.6064	0.0659	0.0398	121.1031
Single Family Housing	47.8882 / 22.6428	102.0525	0.0625	0.0377	114.8526
<b>Total</b>		<b>255.1436</b>	<b>0.1503</b>	<b>0.0905</b>	<b>285.8633</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	251.9950	14.8925	0.0000	624.3070
Unmitigated	251.9950	14.8925	0.0000	624.3070

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	1.09	0.2213	0.0131	0.0000	0.5482
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	33.6	6.8205	0.4031	0.0000	16.8975
Retirement Community	356.5	72.3663	4.2767	0.0000	179.2844
Single Family Housing	751.32	152.5112	9.0132	0.0000	377.8400
<b>Total</b>		<b>251.9950</b>	<b>14.8925</b>	<b>0.0000</b>	<b>624.3070</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	502.6446	0.0000	0.0000	502.6446

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**11.1 Vegetation Land Change**

**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	530.1 / 278.76	- 1,083.275 4	0.0000	0.0000	- 1,083.275 4
<b>Total</b>		- <b>1,083.275</b> <b>4</b>	<b>0.0000</b>	<b>0.0000</b>	- <b>1,083.275</b> <b>4</b>

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2240	1,585.920 0	0.0000	0.0000	1,585.920 0
<b>Total</b>		<b>1,585.920</b> <b>0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,585.920</b> <b>0</b>