

Appendix C

Air Quality and Greenhouse Gas
Modeling

<u>Phase 2 Construction</u>		<u>GP Land Uses Construction</u>	
<u>Emissions by Year</u>		<u>Emissions by Year</u>	
<u>(MTCO2e/year)</u>		<u>(MTCO2e/year)</u>	
2021	377	2021	555
2022	553	2022	593
2023	797	2023	797
2024	850	2024	850
2025	848	2025	848
2026	838	2026	838
2027	829	2027	829
2028	818	2028	818
2029	815	2029	815
2030	848	2030	848
2031	843	2031	843
2032	842	2032	842
2033	831	2033	832
2034	829	2034	829
2035	829	2035	829
2036	718	2036	832
2037	829	2037	829
2038	718	2038	718
2039	396	2039	396
2040	141	2040	141
<u>Total</u>	<u>14,549</u>	<u>Total</u>	<u>14,882</u>
<u>Amortized</u>	<u>727.45</u>	<u>Amortized</u>	<u>744.1</u>

CalEEMod Inputs (Construction Run)

Name: River Islands at Lathrop Phase 2
Project Number: 19010070.03
Project Location: Lathrop
County/Air Basin: San Joaquin/SJVAB
Climate Zone: 2
Land Use Setting: Urban
Operational Year: 2040
Utility Company: PG&E
Air Basin: PG&E
Air District: SJVACPD

Project Site Acreage	3,237.5
Disturbed Site Acreage	2104.8

Land Use	SQFT	Acres
Town Center	6,743,088	154.8
Employment Center	2,696,364	61.9
TOD	5,266,404	120.9
Residential Low	34,952,544	802.4
Residential Medium	7,501,032	172.2
Residential High	1,585,584	36.4
Open Space	30,657,528	703.8
Parks	11,125,224	255.4
Lakes	8,515,980	195.5
Schools	4,730,616	108.6
Streets	8,651,016	198.6
Other Open Space	18,600,120	427.0
	141,025,500	3,237.5

CalEEMod Land Use Inputs -- Construction

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
	Commercial	General Office Building	2,696	1000 G Sq. Feet	61.89	2,969,000
	Educational	Elementary School	2,353	1000 G Sq. Feet	54.02	2,353,000
	Educational	High School	2,353	1000 G Sq. Feet	54.02	2,353,000
	Parking	Other Asphalt Surfaces	199	Acre	198.6	8,651,016
	Recreational	City Park	255	Acre	255	11,107,800
	Recreational	Recreational Swimming Pool	8,494	1000 G Sq. Feet	195.0	8,484,000
	Residential	Apartments Low Rise	1,837	Dwelling Unit	172.2	1,837,000
	Residential	Apartments Mid Rise	712	Dwelling Unit	36.4	712,000
	Residential	Condo/Townhouse	1,677	Dwelling Unit	154.8	2,439,000
	Residential	Apartments Mid Rise	2,439	Dwelling Unit	120.9	7,309,800
	Residential	Single Family Housing	4,061	Dwelling Unit	802.0	1,677,000
					2104.83	

Demolition Haul Data*

Component	Amount to be Demolished (Ton)*	Haul Truck Capacity (Ton)	Haul Distance (miles)	Total Trip Ends	Duration (days)	Trip Ends/ day
Building Demo*	20,000	32	15.0	1,250	244	11
Total	20,000			1,250		

*Based on cubic yards provided by the applicant.

Architectural Coating

Interior Paint VOC content:	100
Exterior Paint VOC content:	100

Non-Residential Architectural Coating

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Structure Type	Land Use Square Feet	CalEEMod Application Factor	Total		
			Paintable Surface Area ¹	Paintable Interior Area ²	Paintable Exterior Area ²
Non-Residential					
Non-Residential	7,675,000	2.0	15,350,000	11,512,500	3,837,500
Residential	13,974,800	2.0	27,949,600	20,962,200	6,987,400

¹ CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

² The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

CalEEMod Construction Phase Inputs*

5-Day Work Week/8 hours per day

Adjusted Phasing for 20-Year Construction Period (2021-2040)

	<u>Default</u>	<u>Adjusted</u>
Demolition	10000	244
Site Preparation	6000	146
Grading	15500	378
Building Construction	155000	3782
Paving	11000	268
Arch Coating	11000	268
Construction Start Date	4/1/2021	
Construction End Date	9/30/2040	
Total Work Days	5087	

CalEEMod Construction Schedule Inputs

<u>Phase Name</u>	<u>Phase Type</u>	<u>Start Date</u>	<u>End Date</u>	<u>CalEEMod Total Days</u>
Demolition	Demolition	1/3/2022	3/30/2022	244
Site Preparation	Site Preparation	3/31/2022	5/23/2022	146
Grading	Grading	5/24/2022	10/5/2022	378
Building Construction	Building Construction	10/6/2022	6/23/2026	3782
Paving	Paving	6/24/2026	9/24/2026	268
Architectural Coating	Architectural Coating	9/25/2026	12/30/2026	268
				<u>5087</u>

*Based on overall construction schedule of 20 years provided by the Applicant, CalEEMod default phase lengths were normalized to meet this period

of Days

**(CalEEMod
default)**

% of year

**Adjusted #
of Days**

Off Model Adjustments

10000	5%	244	3032.681535	Adjusted Arch Coating Days
6000	3%	146		based on 2/3 building days plus paving and arch coating
15500	8%	378	28.76	Unmitigated ROG (2039)
155000	78%	3782	7718.577074	ROG X Arch Tech Days
11000	6%	268	0.392906815	Adjusted ROG (2039)
11000	6%	268	73.17	Unmitigated ROG (2040)
198500		4843	19637.28388	ROG X Arch Tech Days
End Date	Start Date	End Date	6.475221239	Adjusted ROG (2040)
12/31/2039	1/1/2040	9/26/2040		

CalEEMod Inputs (Proposed Land Uses)

Name: River Islands at Lathrop Phase 2
 Project Number: 19010070.03
 Project Location: Lathrop
 County/Air Basin: San Joaquin/SJVAB
 Climate Zone: 2
 Land Use Setting: Urban
 Operational Year: 2040
 Utility Company: PG&E
 Air Basin: PG&E
 Air District: SJVACPD

Project Site Acreage ¹	3237.5	Residents	31,962	12,694	6,727.82
Disturbed Site Acreage ¹	2104.83	Employees	24,714	7,963	54785.44
		Total	56,676		61,513.26

Land Use	SQFT	Acres	Paired Down SQFT (by 5)	Paired Down Acres (by 5)
General Office Building	2,969,000	61.89	593,800	12.38
Elementary School	2,353,000	54.02	470,600	10.80
High School	2,353,000	54.02	470,600	10.80
Other Asphalt Surfaces	8,651,016	198.6	1,730,203	39.72
City Park	11,107,800	255	2,221,560	51.00
Recreational Swimming Pool	8,484,000	195.0	1,696,800	39.00
Apartments Low Rise	1,837,000	172.2	367,400	34.44
Apartments Mid Rise	712,000	36.4	142,400	7.28
Condo/Townhouse	2,439,000	154.8	487,800	30.96
Apartments Mid Rise	7,309,800	120.9	1,461,960	24.18
Single Family Housing	1,677,000	802.0	335,400	160.40
	2,969,000	2,104.83	9,978,523	420.97

Notes: Land uses and VMT were scaled down by 5 to accommodate the CalEEMod Computer program then later normalized in this appendix

CalEEMod Land Use Inputs -- Construction

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet	Paired Down Unit Amount
Commercial	General Office Building	2,969	1000 G Sq. Feet	61.89	2,969,000	594
Educational	Elementary School	2,353	1000 G Sq. Feet	54.02	2,353,000	471
Educational	High School	2,353	1000 G Sq. Feet	54.02	2,353,000	471
Parking	Other Asphalt Surfaces	199	Acre	198.6	8,651,016	40
Recreational	City Park	255	Acre	255	11,107,800	51
Recreational	Recreational Swimming Pool	8,494	1000 G Sq. Feet	195.0	8,484,000	1699
Residential	Apartments Low Rise	1,837	Dwelling Unit	172.2	1,837,000	367
Residential	Apartments Mid Rise	712	Dwelling Unit	36.4	712,000	142
Residential	Condo/Townhouse	1,677	Dwelling Unit	154.8	2,439,000	335
Residential	Apartments Mid Rise	2,439	Dwelling Unit	120.9	7,309,800	488
Residential	Single Family Housing	4,061	Dwelling Unit	802.0	1,677,000	812
					49892616.00	

Energy Detail

Land Use Subtype	Title-24 Electricity (KWhr/size/year)	Adjusted Title 24 Electricity	Nontitle 24 Energy Intensity	Lighting Energy (KWhr/size/year)	Title-24 Natural Gas (KBTU/size/year)	Adjusted Title 24 NG	Non-Title 24 NG (KBTU/size/year)
General Office Building	3.22	2.254	3.6	3.17	15.99	11.19	0.47
Elementary School	1.88	1.316	1.4	2.34	9.05	6.34	0.42
High School	1.88	1.316	1.4	2.34	9.05	6.34	0.42
Other Asphalt Surfaces	0	0	0.0	0.00	0.00	0.00	0.00
City Park	0	0	0.0	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0	0	0.0	0.00	0.00	0.00	0.00
Apartments Low Rise	511.12	240.2264	3172.76	810.36	9411.72	4423.51	2687.00
Apartments Mid Rise	460.92	216.6324	3054.1	741.44	7061.10	3318.72	2687.00
Condo/Townhouse	381.61	179.3567	3795.01	1001.10	17864.25	8396.20	2687.00
Apartments Mid Rise	460.92	216.6324	3054.1	741.44	7061.10	3318.72	2687.00
Single Family Housing	678.97	319.1159	6156.0	1608.84	23147.69	10879.41	2687.00

Trip Generation (Without Valley Link)

	Daily VMT	Total Project Annual VMT	Paired Down VMT
Single Family Dwelling Units	649,719	237,147,435	47,429,487
Multi-Family Dwelling units	556,126	202,985,990	40,597,198
Active Adults Dwelling units	N/A	N/A	N/A
Food	184,354	67,289,210	13,457,842
Retail + Hotel	620,844	226,608,060	45,321,612
Office	657,959	240,155,035	48,031,007
School	89,978	32,841,970	6,568,394
Fehr and Peers 2020		1,007,027,700	201,405,540
	VMT/Service Population		17,768

Trip Generation (With Valley Link)

	Daily VMT	Total Project Annual VMT	Paired Down VMT
Single Family Dwelling Units	632,008	230,682,920	46,136,584
Multi-Family Dwelling units	540,859	197,413,535	39,482,707
Active Adults Dwelling units	N/A	N/A	N/A
Food	182,857	66,742,805	13,348,561
Retail + Hotel	615,411	224,625,015	44,925,003
Office	627,150	228,909,750	45,781,950
School	89,323	32,602,895	6,520,579
Fehr and Peers 2020		980,976,920	196,195,384
	VMT/Service Population		17,309

Water Use

Land Use Subtype	Indoor Water Use Default (GPY)	Percentage	Adjusted CalEEMod Value (GPY)
General Office Building	95,798,490.17	36%	68,815,719
Elementary School	13,657,548.01	5%	9,810,739
High School	15,639,385.44	6%	11,234,369
Other Asphalt Surfaces	0	0%	-
City Park	0	0%	-
Recreational Swimming Pool	0	0%	-
Apartments Low Rise	23,911,527.40	9%	17,176,565
Apartments Mid Rise	0	0%	-
Condo/Townhouse	31,795,164.50	12%	22,839,683
Apartments Mid Rise	31,078,470.22	12%	22,324,854
Single Family Housing	52,905,068.80	20%	38,003,734
Total	264,785,654.54	100%	
SEIR Wastewater Generation	2,605,557 gallons per day		
SEIR Wastewater Generation	951,028,305 gallons per year		
Scaled SEIR Wasterwater Generation	190,205,661 gallons per year		

Solid Waste

Land Use Subtype	Solid Waste Gen (TPY)	Percentage	Adjusted CalEEMod Value (TPY)
General Office Building	501.27	15%	5,731.73
Elementary School	612.3	19%	7,001.29
High School	612.3	19%	7,001.29
Other Asphalt Surfaces	0	0%	-
City Park	4.39	0%	50.20
Recreational Swimming Pool	-	0%	-
Apartments Low Rise	168.82	5%	1,930.36
Apartments Mid Rise	0	0%	-
Condo/Townhouse	224.48	7%	2,566.80
Apartments Mid Rise	219.42	7%	2,508.94
Single Family Housing	927.36	28%	10,603.82
Total	3,270		
SEIR Solid Waste Generation	186,972.18 tons per year		
Scaled SEIR Solid Waste Generation	37,394 tons per year		

Land Use Subtype	Land Use Subtype	Land Use Subtype	Land Use Subtype	Land Use Subtype	Land Use Subtype	Land Use Subtype	Land Use Subtype
General Office Building	General Office Building	General Office Building	General Office Building	General Office Building	General Office Building	General Office Building	General Office Building
Elementary School	Elementary School	Elementary School	Elementary School	Elementary School	Elementary School	Elementary School	Elementary School
High School	High School	High School	High School	High School	High School	High School	High School
Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces	Other Asphalt Surfaces
City Park	City Park	City Park	City Park	City Park	City Park	City Park	City Park
Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool	Recreational Swimming Pool
Apartments Low Rise	Apartments Low Rise	Apartments Low Rise	Apartments Low Rise	Apartments Low Rise	Apartments Low Rise	Apartments Low Rise	Apartments Low Rise
Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise
Condo/Townhouse	Condo/Townhouse	Condo/Townhouse	Condo/Townhouse	Condo/Townhouse	Condo/Townhouse	Condo/Townhouse	Condo/Townhouse
Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise	Apartments Mid Rise
Single Family Housing	Single Family Housing	Single Family Housing	Single Family Housing	Single Family Housing	Single Family Housing	Single Family Housing	Single Family Housing

Solid Waste

	Solid Waste Generation	
#REF!	Employees	Total (tons/year) ¹
	100	59.00

¹ CalRecycle.1990. Institutional Sector (Government) Sector Rate. <https://www2.calrecycle.ca.gov/wastecharacterization/general/rates>

CalEEMod Inputs (General Plan Land Uses)

Name: River Islands at Lathrop Phase 2
 Project Number: 19010070.03
 Project Location: Lathrop
 County/Air Basin: San Joaquin/SJVAB
 Climate Zone: 2
 Land Use Setting: Urban
 Operational Year: 2040
 Utility Company: PG&E
 Air Basin: PG&E
 Air District: SJVACPD

Project Site Acreage ¹	3237.5
Disturbed Site Acreage ¹	2612.80

Residents	19,268
Employees	16,751
Total	36,019

Land Use	SQFT	Acres	Paired Down SQFT (by 5)	Paired Down Acres (by 5)
General Office Building	5,445,000	125	1,089,000	25.00
Office Park	744,876	17.1	148,975	3.42
High School	2,317,392	53.2	463,478	10.64
Elementary School	2,317,392	53.2	463,478	10.64
City Park	6,769,224	155.4	1,353,845	31.08
Other Asphalt Surfaces	16,652,988	382.3	3,330,598	76.46
Apartments Low Rise	3,066,624	70.4	613,325	14.08
Apartments Mid Rise	1,520,244	34.9	304,049	6.98
Single Family Housing	64,743,228	1,486.3	12,948,646	297.26
Recreational Swimming Pool	10,236,600	235.0	2,047,320	47.00
	113,813,568	2,613	22,762,714	522.56

Notes: Land uses and VMT were scaled down by 5 to accommodate the CalEEMod Computer program then later normalized in this appendix

CalEEMod Land Use Inputs -- Construction

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet	Paired Down Unit Amount
Commercial	General Office Building	5,445	1000 G Sq. Feet	125	2,969,000	1089
Commercial	Office Park	745	1000 G Sq. Feet	17.1	2,353,000	149
Educational	High School	2,317	1000 G Sq. Feet	53.2	2,353,000	463
Educational	Elementary School	2,317	1000 G Sq. Feet	53.2	8,651,016	463
Recreational	City Park	155	Acre	155.4	11,107,800	31
Parking	Other Asphalt Surfaces	16,653	1000 G Sq. Feet	382.3	8,484,000	3331
Residential	Apartments Low Rise	1,200	Dwelling Unit	70.4	1,837,000	240
Residential	Apartments Mid Rise	600	Dwelling Unit	34.9	712,000	120
Residential	Single Family Housing	4,916	Dwelling Unit	1,486.3	2,439,000	983
Recreational	Recreational Swimming Pool	10,236	1000 G Sq. Feet	235.0	7,309,800	2047
		44584.2		2612.80		

Energy Detail

Land Use Subtype	Title-24 Electricity (KWhr/size/year) Default	Adjusted Title 24 Electricity	Nontitle 24 Energy Intensity	Lighting Energy (KWhr/size/year)	Title-24 Natural Gas (KBTU/size/year)	Adjusted Title 24 NG	Non-Title 24 NG (KBTU/size/year)
General Office Building	3.22	2.254	3.6	3.17	15.99	11.19	0.47
Office Park	3	2.1	4.4	3.19	10.91	7.64	0.00
High School	1.88	1.316	1.4	2.34	9.05	6.34	0.42
Elementary School	1.88	1.316	1.4	2.34	9.05	6.34	0.00
City Park	0	0	0.0	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0	0	0.0	0.00	0.00	0.00	0.00
Apartments Low Rise	511.12	240.2264	3172.76	810.36	9411.72	4423.51	2687.00
Apartments Mid Rise	460.92	216.6324	3054.1	741.44	7061.10	3318.72	2687.00
Single Family Housing	678.97	319.1159	6155.97	1608.84	23147.60	10879.37	2687.00
Recreational Swimming Pool	0	0	0.0	0.00			

Trip Generation

	Daily VMT	Total Project Annual VMT	Paired Down VMT
Single Family Dwelling Units	719,699	262,690,135	52,538,027
Multi-Family Dwelling units	197,728	72,170,720	14,434,144
Active Adults Dwelling units	N/A	N/A	N/A
Food	164,123	59,904,895	11,980,979
Retail + Hotel	555,586	202,788,890	40,557,778
Office	712,676	260,126,740	52,025,348
School	65,686	23,975,390	4,795,078
		881,656,770	176,331,354

Fehr and Peers 2020

VMT/Service Population 24,478

Water Use

Land Use Subtype	Indoor Water Use Default (GPY)	Percentage	Adjusted CalEEMod Value (GPY)
General Office Building	193,522,000	58%	153,208,497.99
Office Park	26,464,555	8%	20,951,595.79
High School	15,373,740	5%	12,171,162.01
Elementary School	13,425,570	4%	10,628,824.70
City Park	-	0%	-
Other Asphalt Surfaces	-	0%	-
Apartments Low Rise	15,636,900	5%	12,379,501.88
Apartments Mid Rise	7,818,483	2%	6,189,777.06
Single Family Housing	64,046,000	19%	50,704,268.57
Recreational Swimming Pool	-	0%	-
Total	336,287,248		
2003 SEIR Wastewater Generation	3,647,036 gallons per day		
2003 SEIR Wastewater Generation	1,331,168,140 gallons per year		
Scaled 2003 SEIR Wasterwater Generation	266,233,628 gallons per year		

Solid Waste

Land Use Subtype	Solid Waste Gen (TPY)	Percentage	Adjusted CalEEMod Value (TPY)
General Office Building	501.0	17%	4,277.43
Office Park	138.5	5%	1,182.31
High School	601.9	20%	5,138.89
Elementary School	601.9	20%	5,138.89
City Park	2.67	0%	22.80
Other Asphalt Surfaces	-	0%	-
Apartments Low Rise	110.4	4%	942.57
Apartments Mid Rise	55.2	2%	471.29
Single Family Housing	927.36	32%	7,917.60
Recreational Swimming Pool	-	0%	-
Total	2,939		
2003 SEIR Solid Waste Generation	28,155 tons per year		
Scaled 2003 SEIR Solid Waste Generation	5,631		
Adjusted 2003 SEIR Solid Waste Generation	125,459 tons per year		0.67 Percent of Proposed Project
Scaled 2003 SEIR Solid Waste Generation	25,092 tons per year		

CalEEMod Outputs (Proposed Land Uses)

Notes: CalEEMod land use and VMT inputs were adjusted by 5 (purple), then scaled out in this appendix (green).

Annual Emissions Estimates With Valley Link (raw output)												Annual Emissions Estimates With Valley Link (scaled by 5)											
tons/year											MT/year	tons/year											MT/year
Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e	Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Area	27	2.03	69.7	0.18		8.88	8.88		8.884	8.88	2472.49	Area	135	10.15	348.5	0.9	0	44.4	44.4	0	44.42	44.4	12,362
Energy	0.18	1.6	1	0.01		0.13	0.13		0.128	0.13	3961	Energy	0.9	8	5	0.05	0	0.65	0.65	0	0.64	0.65	19,805
Mobile	10.4	104.5	113.5	0.72	73.81	0.27	74	19.75	0.254	20	73,217	Mobile	52	522.5	567.5	3.6	369.05	1.35	370	98.75	1.27	100	366,085
Waste											6188	Waste	0	0	0	0	0	0	0	0	0	0	30,940
Water											451	Water	0	0	0	0	0	0	0	0	0	0	2,255
Total	37.58	108.13	184.2	0.91	73.81	9.28	83.01	19.75	9.266	29.01	86289.49	Total	187.9	540.65	921	4.55	369.05	46.4	415.05	98.75	46.33	145.05	432,175
											MTCO2e/capita												7.63
Daily Emissions Estimates With Valley Link (raw output)												Daily Emissions Estimates With Valley Link (scaled by 5)											
lb/day												lb/day											
Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e	Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Area	264	47.2	1489	4.4		215.52	215.5		215.5	215.5	215.5	Area	1320	236	7445	22	0	1077.6	1077.5	0	1077.5	1077.5	1077.5
Energy	1	8.9	5.2	0.05		0.7	0.7		0.7	0.7	0.7	Energy	5	44.5	26	0.25	0	3.5	3.5	0	3.5	3.5	3.5
Mobile	84	690.85	802	5.18	512.57	1.84	514.42	136.8	1.72	138.57	138.57	Mobile	420	3454.25	4010	25.9	2562.85	9.2	2572.1	684	8.6	692.85	692.85
Total	349	746.98	2297	9.65	512.57	218	730.65	136.8	217.9	354.8	354.8	Total	1745	3734.9	11485	48.25	2562.85	1090	3653.25	684	1089.5	1774	1774
											MTCO2e/capita												7.63
Annual Emissions Estimates Without Valley Link (raw output)												Annual Emissions Estimates Without Valley Link (scaled by 5)											
tons/year											MT/year	tons/year											MT/year
Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e	Area	ROG	Nox	CO	SO2	Fugitive PM	Exhaust PM	PM 10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Mobile	10.53	104.7	115.7	0.74	75.5	0.28	75.76	20.2	0.26	20.46	74,731	Mobile	52.65	523.5	578.5	3.7	377.5	1.4	378.8	101	1.3	102.3	373,655
Total	37.7	108.45	186.4	0.93	75.48	9.3	84.78	20.2	9.28	29.48	88481.88	Total	188.5	542.25	932	4.65	377.4	46.5	423.9	101	46.4	147.4	443,136
											MTCO2e/capita												7.82
Annual Emissions Estimates GP Approved Land Uses (raw output)												Annual Emissions Estimates GP Approved Land Uses (Scaled by 5)											
											MT/year												MT/year
Area											1623.8	Area											8,119
Energy											4439.3	Energy											22,197
Mobile											65675	Mobile											328,375
Waste											4145.96	Waste											20,730
Water											809	Water											4,045
Total											76693.06	Total											384,209
											MTCO2e/capita												10.67
											3.04												10.67

<u>MMCO2e</u>		<u>Omitted from Inventory</u>		
<u>1990 Statewide</u>	<u>Adjusted 1990</u>			
<u>Inventory</u>	<u>Inventory</u>	<u>Emissions</u>	<u>Percent</u>	<u>Notes</u>
19	0	19	100	Excluded
14	14	0	0	Included
62	62	0	0	Included
49	49	0	0	Included
94	0	94	100	Excluded
1	1	0	0	Included
30	30	0	0	Included
151	151	0	0	Included
4	4	0	0	Included
7	7	0	0	Included
431	318	113	26%	

<u>Inputs</u>	
2020 Statewide Pop	40,129,160
2040 Statewide Pop	43,946,643
Growth Rate	10%
2020 Employee*	14,716,100
2040 Employee (growth R	16,187,710

*Adjusted to remove ag, mining, and manufacturing jobs

Notes

127.2	MMTCO2e
43,946,643	persons
16,187,710	employees
60,134,353	service population
<u>2.115263467</u>	

*2040 goal would be 60% below 1990 inventory
<http://www.dof.ca.gov/Forecasting/Demographics/Projections/>
<https://www.labormarketinfo.edd.ca.gov/data/employment-by-industry.html>

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,696.00	1000sqft	61.89	2,696,000.00	0
Elementary School	2,353.00	1000sqft	54.02	2,353,000.00	0
High School	2,353.00	1000sqft	54.02	2,353,000.00	0
Other Asphalt Surfaces	198.60	Acre	198.60	8,651,016.00	0
City Park	255.00	Acre	255.00	11,107,800.00	0
Recreational Swimming Pool	8,494.00	1000sqft	195.00	8,494,000.00	0
Apartments Low Rise	1,837.00	Dwelling Unit	172.20	1,837,000.00	5827
Apartments Mid Rise	712.00	Dwelling Unit	36.40	712,000.00	2258
Condo/Townhouse	2,439.00	Dwelling Unit	154.80	2,439,000.00	7737
Single Family Housing	4,061.00	Dwelling Unit	802.00	7,309,800.00	12881
Apartments Mid Rise	1,677.00	Dwelling Unit	120.90	1,677,000.00	5319

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for annual construction emissions only.

Land Use - Land uses derived from Chapter 2. Project Description

Construction Phase - Construction to commence spring 2021 and end fall 2040. CalEEMod Default ratios utilized to provide phasing estimates.

Off-road Equipment - CalEEMod defaults used

Demolition - General estimate of tons to be demolished

Grading - No import or export of materials.

Trips and VMT - Grade crew: 50 workers, underground crew: 8 works, finish grade crew: 10 workers, homebuilder crew: 140 workers

Architectural Coating - Consistent with SJVAPCD Rule 4601 and applicable land uses that would be painted.

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,701,000.00	11,512,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	11,103,000.00	3,837,500.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	9,432,990.00	6,987,400.00
tblArchitecturalCoating	ConstArea_Residential_Interior	28,298,970.00	20,962,200.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	100.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	11,000.00	268.00
tblConstructionPhase	NumDays	155,000.00	3,782.00
tblConstructionPhase	NumDays	10,000.00	244.00
tblConstructionPhase	NumDays	15,500.00	378.00
tblConstructionPhase	NumDays	11,000.00	268.00

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tblConstructionPhase	NumDays	6,000.00	146.00
tblConstructionPhase	PhaseEndDate	6/10/2820	9/26/2040
tblConstructionPhase	PhaseEndDate	2/12/2736	9/7/2038
tblConstructionPhase	PhaseEndDate	7/30/2059	3/8/2022
tblConstructionPhase	PhaseEndDate	12/27/2141	3/8/2024
tblConstructionPhase	PhaseEndDate	4/12/2778	9/16/2039
tblConstructionPhase	PhaseEndDate	7/29/2082	9/28/2022
tblConstructionPhase	PhaseStartDate	4/13/2778	9/17/2039
tblConstructionPhase	PhaseStartDate	12/28/2141	3/9/2024
tblConstructionPhase	PhaseStartDate	7/30/2082	9/28/2022
tblConstructionPhase	PhaseStartDate	2/13/2736	9/8/2038
tblConstructionPhase	PhaseStartDate	7/31/2059	3/9/2022
tblGrading	AcresOfGrading	945.00	38,750.00
tblLandUse	LotAcreage	114.81	172.20
tblLandUse	LotAcreage	18.74	36.40
tblLandUse	LotAcreage	152.44	154.80
tblLandUse	LotAcreage	1,318.51	802.00
tblLandUse	LotAcreage	44.13	120.90
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripNumber	1,978.00	1,250.00
tblTripsAndVMT	VendorTripNumber	6,990.00	100.00

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tblTripsAndVMT	WorkerTripNumber	4,193.00	280.00
tblTripsAndVMT	WorkerTripNumber	20,966.00	280.00
tblTripsAndVMT	WorkerTripNumber	20.00	100.00
tblTripsAndVMT	WorkerTripNumber	15.00	280.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblWoodstoves	NumberCatalytic	157.30	36.40
tblWoodstoves	NumberNoncatalytic	157.30	36.40

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					
2021	0.3203	3.2098	2.1789	4.2500e-003	0.1949	0.1532	0.3481	0.0318	0.1423	0.1741			374.8504	0.0961	0.0000	377.2525
2022	0.4342	4.3754	3.0287	6.2300e-003	22.1582	0.2028	22.3610	3.0745	0.1869	3.2614			548.7040	0.1625	0.0000	552.7658
2023	0.4732	4.5136	3.9248	8.9800e-003	21.4336	0.1858	21.6194	2.6765	0.1710	2.8474			791.0124	0.2311	0.0000	796.7898
2024	0.3543	3.1208	3.2131	9.4100e-003	21.0241	0.1008	21.1249	2.3898	0.0941	2.4839			847.1112	0.1171	0.0000	850.0387
2025	0.3070	2.6971	2.9653	9.3400e-003	0.3773	0.0716	0.4489	0.1023	0.0673	0.1696			845.5446	0.0885	0.0000	847.7568
2026	0.3006	2.6822	2.9155	9.2400e-003	0.3773	0.0715	0.4488	0.1023	0.0673	0.1696			835.6553	0.0879	0.0000	837.8536
2027	0.2945	2.6679	2.8658	9.1400e-003	0.3773	0.0714	0.4487	0.1023	0.0672	0.1695			826.8719	0.0874	0.0000	829.0565

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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
Year	tons/yr										MT/yr					
2028	0.2872	2.6464	2.8120	9.0200e-003	0.3758	0.0710	0.4469	0.1019	0.0668	0.1687			816.1094	0.0865	0.0000	818.2727
2029	0.2820	2.6455	2.7824	8.9800e-003	0.3773	0.0712	0.4485	0.1023	0.0670	0.1693			812.4945	0.0864	0.0000	814.6541
2030	0.2681	2.0438	2.7556	9.4400e-003	0.3773	0.0216	0.3989	0.1023	0.0214	0.1237			847.0084	0.0286	0.0000	847.7225
2031	0.2616	2.0349	2.7217	9.3800e-003	0.3773	0.0215	0.3988	0.1023	0.0214	0.1237			841.9376	0.0282	0.0000	842.6414
2032	0.2570	2.0347	2.7031	9.3700e-003	0.3787	0.0215	0.4002	0.1027	0.0214	0.1240			840.8951	0.0279	0.0000	841.5927
2033	0.2502	2.0123	2.6577	9.2600e-003	0.3758	0.0212	0.3971	0.1019	0.0211	0.1230			830.8754	0.0274	0.0000	831.5598
2034	0.2461	2.0063	2.6348	9.2300e-003	0.3758	0.0212	0.3970	0.1019	0.0210	0.1230			827.8386	0.0271	0.0000	828.5162
2035	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4548	0.0260	0.0000	829.1044
2036	0.2323	1.9152	2.6303	9.2700e-003	0.3787	0.0137	0.3924	0.1027	0.0136	0.1163			831.6290	0.0261	0.0000	832.2811
2037	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4548	0.0260	0.0000	829.1044
2038	0.3014	1.5118	2.5547	8.0400e-003	0.3499	0.0174	0.3672	0.0944	0.0173	0.1116			717.2439	0.0221	0.0000	717.7966
2039	28.7573	0.5054	1.8789	4.5100e-003	0.2899	0.0186	0.3086	0.0771	0.0185	0.0956			396.1107	0.0106	0.0000	396.3761
2040	73.1694	0.0857	0.3890	1.5700e-003	0.2152	1.2300e-003	0.2165	0.0572	1.1900e-003	0.0584			140.5538	1.8200e-003	0.0000	140.5992
Maximum	73.1694	4.5136	3.9248	9.4400e-003	22.1582	0.2028	22.3610	3.0745	0.1869	3.2614			847.1112	0.2311	0.0000	850.0387

2.1 Overall Construction

Mitigated Construction

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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
Year	tons/yr										MT/yr					
2021	0.3203	3.2098	2.1789	4.2500e-003	0.0983	0.1532	0.2515	0.0171	0.1423	0.1595			374.8500	0.0961	0.0000	377.2521
2022	0.4342	4.3754	3.0287	6.2300e-003	9.9963	0.2028	10.1991	1.3901	0.1869	1.5770			548.7034	0.1625	0.0000	552.7652
2023	0.4732	4.5136	3.9248	8.9800e-003	9.7021	0.1858	9.8879	1.2196	0.1710	1.3905			791.0116	0.2311	0.0000	796.7889
2024	0.3543	3.1208	3.2131	9.4100e-003	9.6403	0.1008	9.7411	1.1240	0.0941	1.2181			847.1107	0.1171	0.0000	850.0383
2025	0.3070	2.6971	2.9653	9.3400e-003	0.3773	0.0716	0.4489	0.1023	0.0673	0.1696			845.5442	0.0885	0.0000	847.7564
2026	0.3006	2.6822	2.9155	9.2400e-003	0.3773	0.0715	0.4488	0.1023	0.0673	0.1696			835.6549	0.0879	0.0000	837.8533
2027	0.2945	2.6679	2.8658	9.1400e-003	0.3773	0.0714	0.4487	0.1023	0.0672	0.1695			826.8716	0.0874	0.0000	829.0561
2028	0.2872	2.6464	2.8120	9.0200e-003	0.3758	0.0710	0.4469	0.1019	0.0668	0.1687			816.1091	0.0865	0.0000	818.2723
2029	0.2820	2.6455	2.7824	8.9800e-003	0.3773	0.0712	0.4485	0.1023	0.0670	0.1693			812.4942	0.0864	0.0000	814.6537
2030	0.2681	2.0438	2.7556	9.4400e-003	0.3773	0.0216	0.3989	0.1023	0.0214	0.1237			847.0080	0.0286	0.0000	847.7221
2031	0.2616	2.0349	2.7217	9.3800e-003	0.3773	0.0215	0.3988	0.1023	0.0214	0.1237			841.9372	0.0282	0.0000	842.6410
2032	0.2570	2.0347	2.7031	9.3700e-003	0.3787	0.0215	0.4002	0.1027	0.0214	0.1240			840.8946	0.0279	0.0000	841.5923
2033	0.2502	2.0123	2.6577	9.2600e-003	0.3758	0.0212	0.3971	0.1019	0.0211	0.1230			830.8750	0.0274	0.0000	831.5594
2034	0.2461	2.0063	2.6348	9.2300e-003	0.3758	0.0212	0.3970	0.1019	0.0210	0.1230			827.8381	0.0271	0.0000	828.5158
2035	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4544	0.0260	0.0000	829.1040
2036	0.2323	1.9152	2.6303	9.2700e-003	0.3787	0.0137	0.3924	0.1027	0.0136	0.1163			831.6286	0.0261	0.0000	832.2806
2037	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4544	0.0260	0.0000	829.1040
2038	0.3014	1.5118	2.5547	8.0400e-003	0.3499	0.0174	0.3672	0.0944	0.0173	0.1116			717.2435	0.0221	0.0000	717.7962

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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
Year	tons/yr										MT/yr					
2039	28.7573	0.5054	1.8789	4.5100e-003	0.2899	0.0186	0.3086	0.0771	0.0185	0.0956			396.1104	0.0106	0.0000	396.3759
2040	73.1694	0.0857	0.3890	1.5700e-003	0.2152	1.2300e-003	0.2165	0.0572	1.1900e-003	0.0584			140.5537	1.8200e-003	0.0000	140.5992
Maximum	73.1694	4.5136	3.9248	9.4400e-003	9.9963	0.2028	10.1991	1.3901	0.1869	1.5770			847.1107	0.2311	0.0000	850.0383

	ROG	NOx	CO	SO2	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	50.13	0.00	49.30	45.44	0.00	40.77	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	1.1642	1.1642
2	7-1-2021	9-30-2021	1.1770	1.1770
3	10-1-2021	12-31-2021	1.1778	1.1778
4	1-1-2022	3-31-2022	1.0045	1.0045
5	4-1-2022	6-30-2022	1.1813	1.1813
6	7-1-2022	9-30-2022	1.2144	1.2144
7	10-1-2022	12-31-2022	1.4158	1.4158
8	1-1-2023	3-31-2023	1.2345	1.2345
9	4-1-2023	6-30-2023	1.2472	1.2472
10	7-1-2023	9-30-2023	1.2609	1.2609
11	10-1-2023	12-31-2023	1.2619	1.2619
12	1-1-2024	3-31-2024	1.0774	1.0774
13	4-1-2024	6-30-2024	0.7879	0.7879
14	7-1-2024	9-30-2024	0.7966	0.7966
15	10-1-2024	12-31-2024	0.8009	0.8009

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16	1-1-2025	3-31-2025	0.7429	0.7429
17	4-1-2025	6-30-2025	0.7471	0.7471
18	7-1-2025	9-30-2025	0.7553	0.7553
19	10-1-2025	12-31-2025	0.7594	0.7594
20	1-1-2026	3-31-2026	0.7374	0.7374
21	4-1-2026	6-30-2026	0.7419	0.7419
22	7-1-2026	9-30-2026	0.7500	0.7500
23	10-1-2026	12-31-2026	0.7538	0.7538
24	1-1-2027	3-31-2027	0.7322	0.7322
25	4-1-2027	6-30-2027	0.7368	0.7368
26	7-1-2027	9-30-2027	0.7449	0.7449
27	10-1-2027	12-31-2027	0.7484	0.7484
28	1-1-2028	3-31-2028	0.7357	0.7357
29	4-1-2028	6-30-2028	0.7324	0.7324
30	7-1-2028	9-30-2028	0.7405	0.7405
31	10-1-2028	12-31-2028	0.7438	0.7438
32	1-1-2029	3-31-2029	0.7231	0.7231
33	4-1-2029	6-30-2029	0.7281	0.7281
34	7-1-2029	9-30-2029	0.7361	0.7361
35	10-1-2029	12-31-2029	0.7392	0.7392
36	1-1-2030	3-31-2030	0.5713	0.5713
37	4-1-2030	6-30-2030	0.5748	0.5748
38	7-1-2030	9-30-2030	0.5811	0.5811
39	10-1-2030	12-31-2030	0.5840	0.5840
40	1-1-2031	3-31-2031	0.5672	0.5672
41	4-1-2031	6-30-2031	0.5709	0.5709
42	7-1-2031	9-30-2031	0.5771	0.5771

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

43	10-1-2031	12-31-2031	0.5799	0.5799
44	1-1-2032	3-31-2032	0.5700	0.5700
45	4-1-2032	6-30-2032	0.5675	0.5675
46	7-1-2032	9-30-2032	0.5737	0.5737
47	10-1-2032	12-31-2032	0.5763	0.5763
48	1-1-2033	3-31-2033	0.5606	0.5606
49	4-1-2033	6-30-2033	0.5645	0.5645
50	7-1-2033	9-30-2033	0.5707	0.5707
51	10-1-2033	12-31-2033	0.5731	0.5731
52	1-1-2034	3-31-2034	0.5580	0.5580
53	4-1-2034	6-30-2034	0.5620	0.5620
54	7-1-2034	9-30-2034	0.5681	0.5681
55	10-1-2034	12-31-2034	0.5704	0.5704
56	1-1-2035	3-31-2035	0.5279	0.5279
57	4-1-2035	6-30-2035	0.5316	0.5316
58	7-1-2035	9-30-2035	0.5375	0.5375
59	10-1-2035	12-31-2035	0.5396	0.5396
60	1-1-2036	3-31-2036	0.5338	0.5338
61	4-1-2036	6-30-2036	0.5316	0.5316
62	7-1-2036	9-30-2036	0.5375	0.5375
63	10-1-2036	12-31-2036	0.5396	0.5396
64	1-1-2037	3-31-2037	0.5279	0.5279
65	4-1-2037	6-30-2037	0.5316	0.5316
66	7-1-2037	9-30-2037	0.5375	0.5375
67	10-1-2037	12-31-2037	0.5396	0.5396
68	1-1-2038	3-31-2038	0.5279	0.5279
69	4-1-2038	6-30-2038	0.5316	0.5316

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

70	7-1-2038	9-30-2038	0.4733	0.4733
71	10-1-2038	12-31-2038	0.2822	0.2822
72	1-1-2039	3-31-2039	0.2761	0.2761
73	4-1-2039	6-30-2039	0.2779	0.2779
74	7-1-2039	9-30-2039	4.0348	4.0348
75	10-1-2039	12-31-2039	24.9498	24.9498
76	1-1-2040	3-31-2040	24.6728	24.6728
77	4-1-2040	6-30-2040	24.6717	24.6717
78	7-1-2040	9-30-2040	23.8583	23.8583
		Highest	24.9498	24.9498

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	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.44 50	22.9462	0.1042	11,275.13 96
Energy	1.5610	13.6011	7.5947	0.0852		1.0785	1.0785		1.0785	1.0785			26,663.78 72	1.8598	0.6067	26,891.08 97
Mobile	44.1151	440.0636	467.3620	3.0683	310.6124	1.1576	311.7700	83.1327	1.0804	84.2131			284,578.8 267	10.0548	0.0000	284,830.1 974
Waste						0.0000	0.0000		0.0000	0.0000			13,146.88 63	776.9587	0.0000	32,570.85 44
Water						0.0000	0.0000		0.0000	0.0000			2,080.853 1	59.7335	1.4488	4,005.933 1
Total	175.7216	463.1156	778.9110	3.9147	310.6124	39.3597	349.9721	83.1327	39.2825	122.4152			337,140.7 983	871.5530	2.1597	359,573.2 142

River Islands Phase 2 Construction Emissions - San Joaquin 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	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.4450	22.9462	0.1042	11,275.1396
Energy	1.5610	13.6011	7.5947	0.0852		1.0785	1.0785		1.0785	1.0785			26,663.7872	1.8598	0.6067	26,891.0897
Mobile	44.1151	440.0636	467.3620	3.0683	310.6124	1.1576	311.7700	83.1327	1.0804	84.2131			284,578.8267	10.0548	0.0000	284,830.1974
Waste						0.0000	0.0000		0.0000	0.0000			13,146.8863	776.9587	0.0000	32,570.8544
Water						0.0000	0.0000		0.0000	0.0000			2,080.8531	59.7335	1.4488	4,005.9331
Total	175.7216	463.1156	778.9110	3.9147	310.6124	39.3597	349.9721	83.1327	39.2825	122.4152			337,140.7983	871.5530	2.1597	359,573.2142

	ROG	NOx	CO	SO2	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

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2021	3/8/2022	5	244	
2	Site Preparation	Site Preparation	3/9/2022	9/28/2022	5	146	
3	Grading	Grading	9/28/2022	3/8/2024	5	378	
4	Building Construction	Building Construction	3/9/2024	9/7/2038	5	3782	
5	Paving	Paving	9/8/2038	9/16/2039	5	268	
6	Architectural Coating	Architectural Coating	9/17/2039	9/26/2040	5	268	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 198.6

**Residential Indoor: 20,962,200; Residential Outdoor: 6,987,400; Non-Residential Indoor: 3,837,500; Non-Residential Outdoor: 11,512,500;
Striped Parking Area: 519,061 (Architectural Coating – sqft)**

OffRoad Equipment

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	280.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	280.00	100.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	1,250.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Grading	8	100.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Paving	6	280.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	16.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					0.1755	0.0000	0.1755	0.0266	0.0000	0.0266			0.0000	0.0000	0.0000	0.0000
Off-Road	0.3118	3.0969	2.1242	3.8200e-003		0.1528	0.1528		0.1420	0.1420			334.9077	0.0943	0.0000	337.2643
Total	0.3118	3.0969	2.1242	3.8200e-003	0.1755	0.1528	0.3283	0.0266	0.1420	0.1685			334.9077	0.0943	0.0000	337.2643

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.2 Demolition - 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	3.0900e-003	0.1092	0.0167	3.1000e-004	7.6000e-003	3.2000e-004	7.9300e-003	2.0600e-003	3.1000e-004	2.3700e-003			29.8993	1.5600e-003	0.0000	29.9384
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.4400e-003	3.7700e-003	0.0380	1.1000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	7.0000e-005	3.2000e-003			10.0434	2.6000e-004	0.0000	10.0498
Total	8.5300e-003	0.1129	0.0548	4.2000e-004	0.0194	4.0000e-004	0.0198	5.1900e-003	3.8000e-004	5.5700e-003			39.9427	1.8200e-003	0.0000	39.9882

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0790	0.0000	0.0790	0.0120	0.0000	0.0120			0.0000	0.0000	0.0000	0.0000
Off-Road	0.3118	3.0969	2.1242	3.8200e-003		0.1528	0.1528		0.1420	0.1420			334.9073	0.0943	0.0000	337.2639
Total	0.3118	3.0969	2.1242	3.8200e-003	0.0790	0.1528	0.2318	0.0120	0.1420	0.1539			334.9073	0.0943	0.0000	337.2639

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.2 Demolition - 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	3.0900e-003	0.1092	0.0167	3.1000e-004	7.6000e-003	3.2000e-004	7.9300e-003	2.0600e-003	3.1000e-004	2.3700e-003			29.8993	1.5600e-003	0.0000	29.9384
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.4400e-003	3.7700e-003	0.0380	1.1000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	7.0000e-005	3.2000e-003			10.0434	2.6000e-004	0.0000	10.0498
Total	8.5300e-003	0.1129	0.0548	4.2000e-004	0.0194	4.0000e-004	0.0198	5.1900e-003	3.8000e-004	5.5700e-003			39.9427	1.8200e-003	0.0000	39.9882

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0419	0.0000	0.0419	6.3400e-003	0.0000	6.3400e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6044	0.4840	9.1000e-004		0.0292	0.0292		0.0272	0.0272			79.8770	0.0224	0.0000	80.4380
Total	0.0620	0.6044	0.4840	9.1000e-004	0.0419	0.0292	0.0711	6.3400e-003	0.0272	0.0335			79.8770	0.0224	0.0000	80.4380

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.2 Demolition - 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	6.9000e-004	0.0240	3.8500e-003	7.0000e-005	6.3700e-003	7.0000e-005	6.4300e-003	1.6100e-003	6.0000e-005	1.6700e-003			7.0436	3.6000e-004	0.0000	7.0524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	8.0000e-004	8.2800e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.6000e-004			2.3110	5.0000e-005	0.0000	2.3123
Total	1.9000e-003	0.0248	0.0121	1.0000e-004	9.1800e-003	9.0000e-005	9.2600e-003	2.3600e-003	8.0000e-005	2.4300e-003			9.3545	4.1000e-004	0.0000	9.3648

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6044	0.4840	9.1000e-004		0.0292	0.0292		0.0272	0.0272			79.8769	0.0224	0.0000	80.4379
Total	0.0620	0.6044	0.4840	9.1000e-004	0.0188	0.0292	0.0480	2.8500e-003	0.0272	0.0300			79.8769	0.0224	0.0000	80.4379

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.2 Demolition - 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	6.9000e-004	0.0240	3.8500e-003	7.0000e-005	6.3700e-003	7.0000e-005	6.4300e-003	1.6100e-003	6.0000e-005	1.6700e-003			7.0436	3.6000e-004	0.0000	7.0524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	8.0000e-004	8.2800e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.6000e-004			2.3110	5.0000e-005	0.0000	2.3123
Total	1.9000e-003	0.0248	0.0121	1.0000e-004	9.1800e-003	9.0000e-005	9.2600e-003	2.3600e-003	8.0000e-005	2.4300e-003			9.3545	4.1000e-004	0.0000	9.3648

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3188	0.0000	1.3188	0.7249	0.0000	0.7249			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2314	2.4151	1.4379	2.7800e-003		0.1177	0.1177		0.1083	0.1083			244.1076	0.0790	0.0000	246.0813
Total	0.2314	2.4151	1.4379	2.7800e-003	1.3188	0.1177	1.4366	0.7249	0.1083	0.8332			244.1076	0.0790	0.0000	246.0813

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3.3 Site Preparation - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618
Total	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5935	0.0000	0.5935	0.3262	0.0000	0.3262			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2314	2.4151	1.4379	2.7800e-003		0.1177	0.1177		0.1083	0.1083			244.1073	0.0790	0.0000	246.0810
Total	0.2314	2.4151	1.4379	2.7800e-003	0.5935	0.1177	0.7112	0.3262	0.1083	0.4345			244.1073	0.0790	0.0000	246.0810

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.3 Site Preparation - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618
Total	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					20.7520	0.0000	20.7520	2.3312	0.0000	2.3312			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1232	1.3207	0.9874	2.1100e-003		0.0556	0.0556		0.0511	0.0511			185.4176	0.0600	0.0000	186.9168
Total	0.1232	1.3207	0.9874	2.1100e-003	20.7520	0.0556	20.8075	2.3312	0.0511	2.3823			185.4176	0.0600	0.0000	186.9168

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032
Total	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3384	0.0000	9.3384	1.0490	0.0000	1.0490			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1232	1.3207	0.9874	2.1100e-003		0.0556	0.0556		0.0511	0.0511			185.4174	0.0600	0.0000	186.9166
Total	0.1232	1.3207	0.9874	2.1100e-003	9.3384	0.0556	9.3940	1.0490	0.0511	1.1002			185.4174	0.0600	0.0000	186.9166

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032
Total	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					21.3301	0.0000	21.3301	2.6489	0.0000	2.6489			0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704			708.9577	0.2293	0.0000	714.6900
Total	0.4318	4.4870	3.6467	8.0700e-003	21.3301	0.1852	21.5153	2.6489	0.1704	2.8193			708.9577	0.2293	0.0000	714.6900

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998
Total	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.5985	0.0000	9.5985	1.1920	0.0000	1.1920			0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704			708.9569	0.2293	0.0000	714.6891
Total	0.4318	4.4870	3.6467	8.0700e-003	9.5985	0.1852	9.7837	1.1920	0.1704	1.3624			708.9569	0.2293	0.0000	714.6891

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998
Total	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998

3.4 Grading - 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					
Fugitive Dust					20.6978	0.0000	20.6978	2.3014	0.0000	2.3014			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8094	0.6931	1.5500e-003		0.0334	0.0334		0.0307	0.0307			136.2988	0.0441	0.0000	137.4009
Total	0.0805	0.8094	0.6931	1.5500e-003	20.6978	0.0334	20.7311	2.3014	0.0307	2.3321			136.2988	0.0441	0.0000	137.4009

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094
Total	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3140	0.0000	9.3140	1.0356	0.0000	1.0356			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8094	0.6931	1.5500e-003		0.0334	0.0334		0.0307	0.0307			136.2987	0.0441	0.0000	137.4007
Total	0.0805	0.8094	0.6931	1.5500e-003	9.3140	0.0334	9.3474	1.0356	0.0307	1.0663			136.2987	0.0441	0.0000	137.4007

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.4 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094
Total	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094

3.5 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	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7601	0.0581	0.0000	247.2129
Total	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7601	0.0581	0.0000	247.2129

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0224	0.8272	0.1719	2.8500e-003	0.0700	8.5000e-004	0.0709	0.0202	8.1000e-004	0.0211			270.6645	0.0109	0.0000	270.9373
Worker	0.0881	0.0545	0.5852	1.9800e-003	0.2364	1.4200e-003	0.2378	0.0629	1.3100e-003	0.0642			179.2862	3.6800e-003	0.0000	179.3783
Total	0.1105	0.8817	0.7571	4.8300e-003	0.3064	2.2700e-003	0.3087	0.0831	2.1200e-003	0.0852			449.9507	0.0146	0.0000	450.3156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7598	0.0581	0.0000	247.2126
Total	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7598	0.0581	0.0000	247.2126

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0224	0.8272	0.1719	2.8500e-003	0.0700	8.5000e-004	0.0709	0.0202	8.1000e-004	0.0211			270.6645	0.0109	0.0000	270.9373
Worker	0.0881	0.0545	0.5852	1.9800e-003	0.2364	1.4200e-003	0.2378	0.0629	1.3100e-003	0.0642			179.2862	3.6800e-003	0.0000	179.3783
Total	0.1105	0.8817	0.7571	4.8300e-003	0.3064	2.2700e-003	0.3087	0.0831	2.1200e-003	0.0852			449.9507	0.0146	0.0000	450.3156

3.5 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0268	1.0090	0.2020	3.4800e-003	0.0862	1.0300e-003	0.0873	0.0249	9.8000e-004	0.0259			330.8983	0.0133	0.0000	331.2295
Worker	0.1018	0.0607	0.6642	2.3400e-003	0.2911	1.7100e-003	0.2928	0.0774	1.5700e-003	0.0790			211.9914	4.1000e-003	0.0000	212.0938
Total	0.1286	1.0698	0.8662	5.8200e-003	0.3773	2.7400e-003	0.3800	0.1023	2.5500e-003	0.1049			542.8897	0.0174	0.0000	543.3233

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0268	1.0090	0.2020	3.4800e-003	0.0862	1.0300e-003	0.0873	0.0249	9.8000e-004	0.0259			330.8983	0.0133	0.0000	331.2295
Worker	0.1018	0.0607	0.6642	2.3400e-003	0.2911	1.7100e-003	0.2928	0.0774	1.5700e-003	0.0790			211.9914	4.1000e-003	0.0000	212.0938
Total	0.1286	1.0698	0.8662	5.8200e-003	0.3773	2.7400e-003	0.3800	0.1023	2.5500e-003	0.1049			542.8897	0.0174	0.0000	543.3233

3.5 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			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0261	0.9996	0.1945	3.4600e-003	0.0862	1.0100e-003	0.0872	0.0249	9.7000e-004	0.0259			328.7969	0.0130	0.0000	329.1230
Worker	0.0961	0.0554	0.6219	2.2600e-003	0.2911	1.6700e-003	0.2927	0.0774	1.5400e-003	0.0789			204.2035	3.7500e-003	0.0000	204.2971
Total	0.1222	1.0549	0.8164	5.7200e-003	0.3773	2.6800e-003	0.3800	0.1023	2.5100e-003	0.1048			533.0004	0.0168	0.0000	533.4201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0261	0.9996	0.1945	3.4600e-003	0.0862	1.0100e-003	0.0872	0.0249	9.7000e-004	0.0259			328.7969	0.0130	0.0000	329.1230
Worker	0.0961	0.0554	0.6219	2.2600e-003	0.2911	1.6700e-003	0.2927	0.0774	1.5400e-003	0.0789			204.2035	3.7500e-003	0.0000	204.2971
Total	0.1222	1.0549	0.8164	5.7200e-003	0.3773	2.6800e-003	0.3800	0.1023	2.5100e-003	0.1048			533.0004	0.0168	0.0000	533.4201

3.5 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			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0255	0.9901	0.1881	3.4400e-003	0.0862	1.0000e-003	0.0872	0.0249	9.5000e-004	0.0259			326.9520	0.0128	0.0000	327.2727
Worker	0.0905	0.0506	0.5786	2.1800e-003	0.2911	1.5900e-003	0.2926	0.0774	1.4600e-003	0.0788			197.2651	3.4100e-003	0.0000	197.3503
Total	0.1161	1.0406	0.7667	5.6200e-003	0.3773	2.5900e-003	0.3799	0.1023	2.4100e-003	0.1047			524.2170	0.0162	0.0000	524.6230

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0255	0.9901	0.1881	3.4400e-003	0.0862	1.0000e-003	0.0872	0.0249	9.5000e-004	0.0259			326.9520	0.0128	0.0000	327.2727
Worker	0.0905	0.0506	0.5786	2.1800e-003	0.2911	1.5900e-003	0.2926	0.0774	1.4600e-003	0.0788			197.2651	3.4100e-003	0.0000	197.3503
Total	0.1161	1.0406	0.7667	5.6200e-003	0.3773	2.5900e-003	0.3799	0.1023	2.4100e-003	0.1047			524.2170	0.0162	0.0000	524.6230

3.5 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4953	0.0709	0.0000	303.2671

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0250	0.9792	0.1824	3.4100e-003	0.0859	9.8000e-004	0.0869	0.0248	9.4000e-004	0.0258			324.2361	0.0126	0.0000	324.5499
Worker	0.0845	0.0461	0.5386	2.1000e-003	0.2899	1.4700e-003	0.2914	0.0771	1.3600e-003	0.0784			190.3781	3.1000e-003	0.0000	190.4557
Total	0.1095	1.0253	0.7210	5.5100e-003	0.3758	2.4500e-003	0.3783	0.1019	2.3000e-003	0.1042			514.6141	0.0157	0.0000	515.0056

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4949	0.0709	0.0000	303.2667

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0250	0.9792	0.1824	3.4100e-003	0.0859	9.8000e-004	0.0869	0.0248	9.4000e-004	0.0258			324.2361	0.0126	0.0000	324.5499
Worker	0.0845	0.0461	0.5386	2.1000e-003	0.2899	1.4700e-003	0.2914	0.0771	1.3600e-003	0.0784			190.3781	3.1000e-003	0.0000	190.4557
Total	0.1095	1.0253	0.7210	5.5100e-003	0.3758	2.4500e-003	0.3783	0.1019	2.3000e-003	0.1042			514.6141	0.0157	0.0000	515.0056

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0246	0.9759	0.1786	3.4100e-003	0.0862	9.8000e-004	0.0872	0.0249	9.3000e-004	0.0259			324.1898	0.0124	0.0000	324.4997
Worker	0.0789	0.0423	0.5047	2.0500e-003	0.2911	1.3800e-003	0.2924	0.0774	1.2700e-003	0.0787			185.6499	2.8400e-003	0.0000	185.7209
Total	0.1035	1.0182	0.6833	5.4600e-003	0.3773	2.3600e-003	0.3796	0.1023	2.2000e-003	0.1045			509.8396	0.0152	0.0000	510.2206

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0246	0.9759	0.1786	3.4100e-003	0.0862	9.8000e-004	0.0872	0.0249	9.3000e-004	0.0259			324.1898	0.0124	0.0000	324.4997
Worker	0.0789	0.0423	0.5047	2.0500e-003	0.2911	1.3800e-003	0.2924	0.0774	1.2700e-003	0.0787			185.6499	2.8400e-003	0.0000	185.7209
Total	0.1035	1.0182	0.6833	5.4600e-003	0.3773	2.3600e-003	0.3796	0.1023	2.2000e-003	0.1045			509.8396	0.0152	0.0000	510.2206

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 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
Vendor	0.0243	0.9697	0.1751	3.4000e-003	0.0862	9.7000e-004	0.0872	0.0249	9.2000e-004	0.0258			323.1643	0.0122	0.0000	323.4696
Worker	0.0730	0.0387	0.4720	2.0000e-003	0.2911	1.2900e-003	0.2923	0.0774	1.1800e-003	0.0786			180.8104	2.5900e-003	0.0000	180.8752
Total	0.0972	1.0083	0.6471	5.4000e-003	0.3773	2.2600e-003	0.3795	0.1023	2.1000e-003	0.1044			503.9747	0.0148	0.0000	504.3448

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 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
Vendor	0.0243	0.9697	0.1751	3.4000e-003	0.0862	9.7000e-004	0.0872	0.0249	9.2000e-004	0.0258			323.1643	0.0122	0.0000	323.4696
Worker	0.0730	0.0387	0.4720	2.0000e-003	0.2911	1.2900e-003	0.2923	0.0774	1.1800e-003	0.0786			180.8104	2.5900e-003	0.0000	180.8752
Total	0.0972	1.0083	0.6471	5.4000e-003	0.3773	2.2600e-003	0.3795	0.1023	2.1000e-003	0.1044			503.9747	0.0148	0.0000	504.3448

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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

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
Vendor	0.0240	0.9642	0.1725	3.3900e-003	0.0862	9.6000e-004	0.0872	0.0249	9.1000e-004	0.0258			322.3695	0.0120	0.0000	322.6703
Worker	0.0667	0.0352	0.4407	1.9500e-003	0.2911	1.2000e-003	0.2923	0.0774	1.1000e-003	0.0785			176.5345	2.3600e-003	0.0000	176.5934
Total	0.0907	0.9994	0.6132	5.3400e-003	0.3773	2.1600e-003	0.3794	0.1023	2.0100e-003	0.1043			498.9040	0.0144	0.0000	499.2637

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

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
Vendor	0.0240	0.9642	0.1725	3.3900e-003	0.0862	9.6000e-004	0.0872	0.0249	9.1000e-004	0.0258			322.3695	0.0120	0.0000	322.6703
Worker	0.0667	0.0352	0.4407	1.9500e-003	0.2911	1.2000e-003	0.2923	0.0774	1.1000e-003	0.0785			176.5345	2.3600e-003	0.0000	176.5934
Total	0.0907	0.9994	0.6132	5.3400e-003	0.3773	2.1600e-003	0.3794	0.1023	2.0100e-003	0.1043			498.9040	0.0144	0.0000	499.2637

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			344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194			344.3479	0.0138	0.0000	344.6933

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

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
Vendor	0.0239	0.9630	0.1714	3.4000e-003	0.0866	9.5000e-004	0.0875	0.0250	9.1000e-004	0.0259			323.0967	0.0119	0.0000	323.3949
Worker	0.0616	0.0324	0.4151	1.9100e-003	0.2922	1.1200e-003	0.2933	0.0777	1.0300e-003	0.0787			173.4504	2.1700e-003	0.0000	173.5045
Total	0.0855	0.9953	0.5865	5.3100e-003	0.3787	2.0700e-003	0.3808	0.1027	1.9400e-003	0.1046			496.5471	0.0141	0.0000	496.8994

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194			344.3475	0.0138	0.0000	344.6929

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

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
Vendor	0.0239	0.9630	0.1714	3.4000e-003	0.0866	9.5000e-004	0.0875	0.0250	9.1000e-004	0.0259			323.0967	0.0119	0.0000	323.3949
Worker	0.0616	0.0324	0.4151	1.9100e-003	0.2922	1.1200e-003	0.2933	0.0777	1.0300e-003	0.0787			173.4504	2.1700e-003	0.0000	173.5045
Total	0.0855	0.9953	0.5865	5.3100e-003	0.3787	2.0700e-003	0.3808	0.1027	1.9400e-003	0.1046			496.5471	0.0141	0.0000	496.8994

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 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
Vendor	0.0236	0.9512	0.1688	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.2840	0.0117	0.0000	320.5763
Worker	0.0564	0.0296	0.3885	1.8600e-003	0.2899	1.0400e-003	0.2910	0.0771	9.6000e-004	0.0780			168.8721	1.9800e-003	0.0000	168.9215
Total	0.0800	0.9808	0.5573	5.2300e-003	0.3758	1.9700e-003	0.3778	0.1019	1.8500e-003	0.1038			489.1561	0.0137	0.0000	489.4978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 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
Vendor	0.0236	0.9512	0.1688	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.2840	0.0117	0.0000	320.5763
Worker	0.0564	0.0296	0.3885	1.8600e-003	0.2899	1.0400e-003	0.2910	0.0771	9.6000e-004	0.0780			168.8721	1.9800e-003	0.0000	168.9215
Total	0.0800	0.9808	0.5573	5.2300e-003	0.3758	1.9700e-003	0.3778	0.1019	1.8500e-003	0.1038			489.1561	0.0137	0.0000	489.4978

3.5 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0234	0.9472	0.1676	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.0773	0.0116	0.0000	320.3668
Worker	0.0525	0.0276	0.3668	1.8300e-003	0.2899	9.7000e-004	0.2909	0.0771	9.0000e-004	0.0780			166.0419	1.8200e-003	0.0000	166.0873
Total	0.0759	0.9748	0.5344	5.2000e-003	0.3758	1.9000e-003	0.3777	0.1019	1.7900e-003	0.1037			486.1192	0.0134	0.0000	486.4541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0234	0.9472	0.1676	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.0773	0.0116	0.0000	320.3668
Worker	0.0525	0.0276	0.3668	1.8300e-003	0.2899	9.7000e-004	0.2909	0.0771	9.0000e-004	0.0780			166.0419	1.8200e-003	0.0000	166.0873
Total	0.0759	0.9748	0.5344	5.2000e-003	0.3758	1.9000e-003	0.3777	0.1019	1.7900e-003	0.1037			486.1192	0.0134	0.0000	486.4541

3.5 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3479	0.0128	0.0000	344.6686
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3479	0.0128	0.0000	344.6686

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0235	0.9509	0.1680	3.3900e-003	0.0866	9.3000e-004	0.0875	0.0250	8.8000e-004	0.0259			322.4070	0.0116	0.0000	322.6960
Worker	0.0494	0.0262	0.3509	1.8200e-003	0.2922	9.2000e-004	0.2931	0.0777	8.4000e-004	0.0785			164.8741	1.7000e-003	0.0000	164.9165
Total	0.0729	0.9771	0.5189	5.2100e-003	0.3787	1.8500e-003	0.3806	0.1027	1.7200e-003	0.1044			487.2811	0.0133	0.0000	487.6125

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3475	0.0128	0.0000	344.6682
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3475	0.0128	0.0000	344.6682

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0235	0.9509	0.1680	3.3900e-003	0.0866	9.3000e-004	0.0875	0.0250	8.8000e-004	0.0259			322.4070	0.0116	0.0000	322.6960
Worker	0.0494	0.0262	0.3509	1.8200e-003	0.2922	9.2000e-004	0.2931	0.0777	8.4000e-004	0.0785			164.8741	1.7000e-003	0.0000	164.9165
Total	0.0729	0.9771	0.5189	5.2100e-003	0.3787	1.8500e-003	0.3806	0.1027	1.7200e-003	0.1044			487.2811	0.0133	0.0000	487.6125

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526

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3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9463	8.7100e-003	0.0000	234.1641
Total	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9463	8.7100e-003	0.0000	234.1641

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0160	0.6460	0.1141	2.3100e-003	0.0588	6.3000e-004	0.0594	0.0170	6.0000e-004	0.0176			219.0399	7.8500e-003	0.0000	219.2362
Worker	0.0336	0.0178	0.2384	1.2400e-003	0.1985	6.2000e-004	0.1991	0.0528	5.7000e-004	0.0534			112.0137	1.1500e-003	0.0000	112.0425
Total	0.0495	0.6638	0.3525	3.5500e-003	0.2573	1.2500e-003	0.2586	0.0698	1.1700e-003	0.0710			331.0535	9.0000e-003	0.0000	331.2787

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9460	8.7100e-003	0.0000	234.1639
Total	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9460	8.7100e-003	0.0000	234.1639

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

3.5 Building Construction - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0160	0.6460	0.1141	2.3100e-003	0.0588	6.3000e-004	0.0594	0.0170	6.0000e-004	0.0176			219.0399	7.8500e-003	0.0000	219.2362
Worker	0.0336	0.0178	0.2384	1.2400e-003	0.1985	6.2000e-004	0.1991	0.0528	5.7000e-004	0.0534			112.0137	1.1500e-003	0.0000	112.0425
Total	0.0495	0.6638	0.3525	3.5500e-003	0.2573	1.2500e-003	0.2586	0.0698	1.1700e-003	0.0710			331.0535	9.0000e-003	0.0000	331.2787

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0473	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0130	3.8500e-003	0.0000	100.1092
Paving	0.0806					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.1279	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0130	3.8500e-003	0.0000	100.1092

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3.6 Paving - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445
Total	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0473	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0129	3.8500e-003	0.0000	100.1091
Paving	0.0806					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.1279	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0129	3.8500e-003	0.0000	100.1091

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3.6 Paving - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445
Total	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445

3.6 Paving - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1055	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9205	8.5800e-003	0.0000	223.1350
Paving	0.1796					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.2851	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9205	8.5800e-003	0.0000	223.1350

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3.6 Paving - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487
Total	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1055	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9203	8.5800e-003	0.0000	223.1347
Paving	0.1796					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.2851	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9203	8.5800e-003	0.0000	223.1347

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3.6 Paving - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487
Total	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	28.4188					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5836
Total	28.4232	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5836

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3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089
Total	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	28.4188					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5835
Total	28.4232	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5835

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3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089
Total	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089

3.7 Architectural Coating - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	73.1310					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606
Total	73.1421	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606

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3.7 Architectural Coating - 2040

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386
Total	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	73.1310					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606
Total	73.1421	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606

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3.7 Architectural Coating - 2040

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386
Total	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386

4.0 Operational Detail - Mobile

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	44.1151	440.0636	467.3620	3.0683	310.6124	1.1576	311.7700	83.1327	1.0804	84.2131			284,578.8267	10.0548	0.0000	284,830.1974
Unmitigated	44.1151	440.0636	467.3620	3.0683	310.6124	1.1576	311.7700	83.1327	1.0804	84.2131			284,578.8267	10.0548	0.0000	284,830.1974

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	12,105.83	13,152.92	11150.59	35,118,500	35,118,500
Apartments Mid Rise	4,734.80	4,549.68	4172.32	13,411,096	13,411,096
Apartments Mid Rise	11,152.05	10,716.03	9827.22	31,587,651	31,587,651
City Park	481.95	5,801.25	4268.70	3,806,046	3,806,046
Condo/Townhouse	14,170.59	13,829.13	11804.76	39,943,026	39,943,026
Elementary School	36,306.79	0.00	0.00	57,181,615	57,181,615
General Office Building	29,736.88	6,632.16	2830.80	53,990,443	53,990,443
High School	30,330.17	10,282.61	4211.87	62,142,183	62,142,183
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	287,267.08	77,295.40	115518.40	420,618,400	420,618,400
Single Family Housing	38,660.72	40,244.51	35005.82	111,174,296	111,174,296
Total	464,946.86	182,503.69	198,790.48	828,973,256	828,973,256

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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

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			11,215.2468	1.5637	0.3235	11,350.7464
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			11,215.2468	1.5637	0.3235	11,350.7464
NaturalGas Mitigated	1.5610	13.6011	7.5947	0.0852		1.0785	1.0785		1.0785	1.0785			15,448.5404	0.2961	0.2832	15,540.3434
NaturalGas Unmitigated	1.5610	13.6011	7.5947	0.0852		1.0785	1.0785		1.0785	1.0785			15,448.5404	0.2961	0.2832	15,540.3434

River Islands Phase 2 Construction Emissions - San Joaquin 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 Low Rise	2.22253e+007	0.1198	1.0241	0.4358	6.5400e-003		0.0828	0.0828		0.0828	0.0828			1,186.0292	0.0227	0.0217	1,193.0772
Apartments Mid Rise	1.63476e+007	0.0882	0.7533	0.3205	4.8100e-003		0.0609	0.0609		0.0609	0.0609			872.3683	0.0167	0.0160	877.5523
Apartments Mid Rise	6.94065e+006	0.0374	0.3198	0.1361	2.0400e-003		0.0259	0.0259		0.0259	0.0259			370.3794	7.1000e-003	6.7900e-003	372.5804
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
Condo/Townhouse	5.01245e+007	0.2703	2.3097	0.9828	0.0147		0.1867	0.1867		0.1867	0.1867			2,674.8341	0.0513	0.0490	2,690.7293
Elementary School	2.22829e+007	0.1202	1.0923	0.9175	6.5500e-003		0.0830	0.0830		0.0830	0.0830			1,189.1009	0.0228	0.0218	1,196.1672
General Office Building	4.43762e+007	0.2393	2.1753	1.8273	0.0131		0.1653	0.1653		0.1653	0.1653			2,368.0809	0.0454	0.0434	2,382.1532
High School	2.22829e+007	0.1202	1.0923	0.9175	6.5500e-003		0.0830	0.0830		0.0830	0.0830			1,189.1009	0.0228	0.0218	1,196.1672
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
Recreational Swimming Pool	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
Single Family Housing	1.04915e+008	0.5657	4.8343	2.0572	0.0309		0.3909	0.3909		0.3909	0.3909			5,598.6467	0.1073	0.1026	5,631.9166
Total		1.5610	13.6011	7.5947	0.0851		1.0785	1.0785		1.0785	1.0785			15,448.5404	0.2961	0.2832	15,540.3434

River Islands Phase 2 Construction Emissions - San Joaquin 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 Low Rise	2.22253e+007	0.1198	1.0241	0.4358	6.5400e-003		0.0828	0.0828		0.0828	0.0828			1,186.0292	0.0227	0.0217	1,193.0772
Apartments Mid Rise	1.63476e+007	0.0882	0.7533	0.3205	4.8100e-003		0.0609	0.0609		0.0609	0.0609			872.3683	0.0167	0.0160	877.5523
Apartments Mid Rise	6.94065e+006	0.0374	0.3198	0.1361	2.0400e-003		0.0259	0.0259		0.0259	0.0259			370.3794	7.1000e-003	6.7900e-003	372.5804
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
Condo/Townhouse	5.01245e+007	0.2703	2.3097	0.9828	0.0147		0.1867	0.1867		0.1867	0.1867			2,674.8341	0.0513	0.0490	2,690.7293
Elementary School	2.22829e+007	0.1202	1.0923	0.9175	6.5500e-003		0.0830	0.0830		0.0830	0.0830			1,189.1009	0.0228	0.0218	1,196.1672
General Office Building	4.43762e+007	0.2393	2.1753	1.8273	0.0131		0.1653	0.1653		0.1653	0.1653			2,368.0809	0.0454	0.0434	2,382.1532
High School	2.22829e+007	0.1202	1.0923	0.9175	6.5500e-003		0.0830	0.0830		0.0830	0.0830			1,189.1009	0.0228	0.0218	1,196.1672
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
Recreational Swimming Pool	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
Single Family Housing	1.04915e+008	0.5657	4.8343	2.0572	0.0309		0.3909	0.3909		0.3909	0.3909			5,598.6467	0.1073	0.1026	5,631.9166
Total		1.5610	13.6011	7.5947	0.0851		1.0785	1.0785		1.0785	1.0785			15,448.5404	0.2961	0.2832	15,540.3434

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	8.25592e+006	778.9229	0.1086	0.0225	788.3337
Apartments Mid Rise	3.0306e+006	285.9286	0.0399	8.2500e-003	289.3831
Apartments Mid Rise	7.13808e+006	673.4583	0.0939	0.0194	681.5948
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.26285e+007	1,191.4599	0.1661	0.0344	1,205.8548
Elementary School	1.32709e+007	1,252.0743	0.1746	0.0361	1,267.2015
General Office Building	2.6987e+007	2,546.1445	0.3550	0.0735	2,576.9063
High School	1.32709e+007	1,252.0743	0.1746	0.0361	1,267.2015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.42902e+007	3,235.1839	0.4511	0.0933	3,274.2705
Total		11,215.2468	1.5637	0.3235	11,350.7463

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	8.25592e+006	778.9229	0.1086	0.0225	788.3337
Apartments Mid Rise	3.0306e+006	285.9286	0.0399	8.2500e-003	289.3831
Apartments Mid Rise	7.13808e+006	673.4583	0.0939	0.0194	681.5948
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.26285e+007	1,191.4599	0.1661	0.0344	1,205.8548
Elementary School	1.32709e+007	1,252.0743	0.1746	0.0361	1,267.2015
General Office Building	2.6987e+007	2,546.1445	0.3550	0.0735	2,576.9063
High School	1.32709e+007	1,252.0743	0.1746	0.0361	1,267.2015
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.42902e+007	3,235.1839	0.4511	0.0933	3,274.2705
Total		11,215.2468	1.5637	0.3235	11,350.7463

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Construction Emissions - San Joaquin 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	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.4450	22.9462	0.1042	11,275.1396
Unmitigated	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.4450	22.9462	0.1042	11,275.1396

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	18.4433					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	84.1508					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	25.0663	8.5343	224.5131	0.7570		36.6814	36.6814		36.6814	36.6814			10,540.0594	22.8216	0.1042	11,141.6395
Landscaping	2.3852	0.9166	79.4412	4.2200e-003		0.4422	0.4422		0.4422	0.4422			130.3856	0.1246	0.0000	133.5001
Total	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.4450	22.9462	0.1042	11,275.1396

River Islands Phase 2 Construction Emissions - San Joaquin 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	18.4433					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	84.1508					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	25.0663	8.5343	224.5131	0.7570		36.6814	36.6814		36.6814	36.6814			10,540.0594	22.8216	0.1042	11,141.6395
Landscaping	2.3852	0.9166	79.4412	4.2200e-003		0.4422	0.4422		0.4422	0.4422			130.3856	0.1246	0.0000	133.5001
Total	130.0455	9.4509	303.9543	0.7612		37.1236	37.1236		37.1236	37.1236			10,670.4450	22.9462	0.1042	11,275.1396

7.0 Water Detail

7.1 Mitigation Measures Water

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,080.853 1	59.7335	1.4488	4,005.933 1
Unmitigated	2,080.853 1	59.7335	1.4488	4,005.933 1

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	119.688 / 75.4554	123.9902	3.9120	0.0946	249.9726
Apartments Mid Rise	155.653 / 98.129	161.2480	5.0876	0.1230	325.0869
City Park	0 / 303.828	100.3286	0.0140	2.8900e-003	101.5407
Condo/Townhouse	158.911 / 100.183	164.6228	5.1940	0.1256	331.8907
Elementary School	68.2297 / 175.448	114.4139	2.2362	0.0552	186.7602
General Office Building	479.17 / 293.685	493.6203	15.6614	0.3785	997.9568
High School	78.1305 / 200.907	131.0164	2.5607	0.0632	213.8609
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	502.362 / 307.899	517.5114	16.4194	0.3969	1,046.2576
Single Family Housing	264.59 / 166.807	274.1014	8.6482	0.2091	552.6068
Total		2,080.8531	59.7335	1.4488	4,005.9331

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	119.688 / 75.4554	123.9902	3.9120	0.0946	249.9726
Apartments Mid Rise	155.653 / 98.129	161.2480	5.0876	0.1230	325.0869
City Park	0 / 303.828	100.3286	0.0140	2.8900e-003	101.5407
Condo/Townhouse	158.911 / 100.183	164.6228	5.1940	0.1256	331.8907
Elementary School	68.2297 / 175.448	114.4139	2.2362	0.0552	186.7602
General Office Building	479.17 / 293.685	493.6203	15.6614	0.3785	997.9568
High School	78.1305 / 200.907	131.0164	2.5607	0.0632	213.8609
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	502.362 / 307.899	517.5114	16.4194	0.3969	1,046.2576
Single Family Housing	264.59 / 166.807	274.1014	8.6482	0.2091	552.6068
Total		2,080.8531	59.7335	1.4488	4,005.9331

8.0 Waste Detail

8.1 Mitigation Measures Waste

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13,146.88 63	776.9587	0.0000	32,570.85 44
Unmitigated	13,146.88 63	776.9587	0.0000	32,570.85 44

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	845.02	171.5314	10.1372	0.0000	424.9618
Apartments Mid Rise	1098.94	223.0749	13.1834	0.0000	552.6586
City Park	21.93	4.4516	0.2631	0.0000	11.0286
Condo/Townhouse	1121.94	227.7437	13.4593	0.0000	564.2253
Elementary School	3058.9	620.9291	36.6959	0.0000	1,538.3255
General Office Building	2507.28	508.9552	30.0784	0.0000	1,260.9149
High School	3058.9	620.9291	36.6959	0.0000	1,538.3255
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	48415.8	9,827.9699	580.8164	0.0000	24,348.3793
Single Family Housing	4637.16	941.3016	55.6293	0.0000	2,332.0348
Total		13,146.8863	776.9587	0.0000	32,570.8544

River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	845.02	171.5314	10.1372	0.0000	424.9618
Apartments Mid Rise	1098.94	223.0749	13.1834	0.0000	552.6586
City Park	21.93	4.4516	0.2631	0.0000	11.0286
Condo/Townhouse	1121.94	227.7437	13.4593	0.0000	564.2253
Elementary School	3058.9	620.9291	36.6959	0.0000	1,538.3255
General Office Building	2507.28	508.9552	30.0784	0.0000	1,260.9149
High School	3058.9	620.9291	36.6959	0.0000	1,538.3255
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	48415.8	9,827.9699	580.8164	0.0000	24,348.3793
Single Family Housing	4637.16	941.3016	55.6293	0.0000	2,332.0348
Total		13,146.8863	776.9587	0.0000	32,570.8544

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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River Islands Phase 2 Construction Emissions - San Joaquin County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses)

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,089.00	1000sqft	25.00	1,089,000.00	0
Office Park	148.90	1000sqft	3.42	148,900.00	0
Elementary School	463.00	1000sqft	10.63	463,000.00	0
High School	463.00	1000sqft	10.63	463,000.00	0
Other Asphalt Surfaces	3,331.00	Acre	3,331.00	145,098,360.00	0
City Park	31.00	Acre	31.00	1,350,360.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	240.00	Dwelling Unit	14.08	613,325.00	761
Apartments Mid Rise	120.00	Dwelling Unit	6.98	304,049.00	381
Single Family Housing	983.00	Dwelling Unit	297.26	12,948,646.00	3118

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for construction emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - Construction to commence spring 2021 and end fall 2040. CalEEMod Default ratios utilized to provide phasing estimates.

Off-road Equipment - CalEEMod defaults used

Trips and VMT - Grade crew: 50 workers, underground crew: 8 workers, finish grade crew: 10 workers, homebuilder crew: 140 workers.

Demolition - General estimate of tons to be demolished.

Grading - No import or export of materials.

Architectural Coating - This model runs for GHG emissions only.

Vehicle Trips -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Off-road Equipment - CalEEMod defaults used.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155,000.00	3,782.00
tblConstructionPhase	NumDays	10,000.00	244.00
tblConstructionPhase	NumDays	6,000.00	146.00
tblConstructionPhase	NumDays	15,500.00	378.00
tblConstructionPhase	NumDays	11,000.00	268.00
tblConstructionPhase	NumDays	11,000.00	268.00
tblLandUse	LandUseSquareFeet	240,000.00	613,325.00
tblLandUse	LandUseSquareFeet	120,000.00	304,049.00
tblLandUse	LandUseSquareFeet	1,769,400.00	12,948,646.00

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

tblLandUse	LotAcreage	15.00	14.08
tblLandUse	LotAcreage	3.16	6.98
tblLandUse	LotAcreage	319.16	297.26
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripNumber	1,483.00	1,250.00
tblTripsAndVMT	VendorTripNumber	24,780.00	100.00
tblTripsAndVMT	WorkerTripNumber	63,620.00	280.00
tblTripsAndVMT	WorkerTripNumber	12,724.00	280.00
tblTripsAndVMT	WorkerTripNumber	15.00	280.00
tblTripsAndVMT	WorkerTripNumber	20.00	100.00
tblTripsAndVMT	WorkerTripNumber	15.00	280.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004

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tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.9990e-003	3.0413e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4255e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	3.4120e-003	3.4601e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2426e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.8990e-003	9.0245e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25

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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.8480e-003	2.8882e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2014e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.3640e-003	4.4255e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4558e-003
tblVehicleEF	LDT1	0.04	0.04

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45
tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.9590e-003	5.0289e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003

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tblVehicleEF	LDT1	4.1450e-003	4.2034e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.0460e-003	6.1312e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59
tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	4.7190e-003	4.7855e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	5.3620e-003	5.4376e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.8160e-003	7.9262e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	4.4830e-003	4.5462e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6251e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.6280e-003	6.7215e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7739e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003

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tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.3010e-003	6.3898e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2902e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblWoodstoves	NumberCatalytic	14.08	34.44
tblWoodstoves	NumberCatalytic	6.98	31.46
tblWoodstoves	NumberCatalytic	297.26	160.40
tblWoodstoves	NumberNoncatalytic	14.08	34.44
tblWoodstoves	NumberNoncatalytic	6.98	31.46
tblWoodstoves	NumberNoncatalytic	297.26	160.40

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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					
2021	0.4165	3.2764	2.8508	6.2100e-003	0.3589	0.1546	0.5135	0.0804	0.1436	0.2240			552.2833	0.1006	0.0000	554.7986
2022	0.4555	4.3896	3.1749	6.6800e-003	2.1512	0.2031	2.3544	0.9216	0.1872	1.1087			589.5308	0.1634	0.0000	593.6168
2023	0.4732	4.5136	3.9248	8.9800e-003	1.3875	0.1858	1.5733	0.5120	0.1710	0.6829			791.0124	0.2311	0.0000	796.7898
2024	0.3543	3.1208	3.2131	9.4100e-003	0.9780	0.1008	1.0788	0.2253	0.0941	0.3193			847.1112	0.1171	0.0000	850.0387
2025	0.3070	2.6971	2.9653	9.3400e-003	0.3773	0.0716	0.4489	0.1023	0.0673	0.1696			845.5446	0.0885	0.0000	847.7568
2026	0.3006	2.6822	2.9155	9.2400e-003	0.3773	0.0715	0.4488	0.1023	0.0673	0.1696			835.6553	0.0879	0.0000	837.8536
2027	0.2945	2.6679	2.8658	9.1400e-003	0.3773	0.0714	0.4487	0.1023	0.0672	0.1695			826.8719	0.0874	0.0000	829.0565
2028	0.2872	2.6464	2.8120	9.0200e-003	0.3758	0.0710	0.4469	0.1019	0.0668	0.1687			816.1094	0.0865	0.0000	818.2727
2029	0.2820	2.6455	2.7824	8.9800e-003	0.3773	0.0712	0.4485	0.1023	0.0670	0.1693			812.4945	0.0864	0.0000	814.6541
2030	0.2681	2.0438	2.7556	9.4400e-003	0.3773	0.0216	0.3989	0.1023	0.0214	0.1237			847.0084	0.0286	0.0000	847.7225
2031	0.2616	2.0349	2.7217	9.3800e-003	0.3773	0.0215	0.3988	0.1023	0.0214	0.1237			841.9376	0.0282	0.0000	842.6414
2032	0.2570	2.0347	2.7031	9.3700e-003	0.3787	0.0215	0.4002	0.1027	0.0214	0.1240			840.8951	0.0279	0.0000	841.5927
2033	0.2502	2.0123	2.6577	9.2600e-003	0.3758	0.0212	0.3971	0.1019	0.0211	0.1230			830.8754	0.0274	0.0000	831.5598

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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
Year	tons/yr										MT/yr					
2034	0.2461	2.0063	2.6348	9.2300e-003	0.3758	0.0212	0.3970	0.1019	0.0210	0.1230			827.8386	0.0271	0.0000	828.5162
2035	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4548	0.0260	0.0000	829.1044
2036	0.2323	1.9152	2.6303	9.2700e-003	0.3787	0.0137	0.3924	0.1027	0.0136	0.1163			831.6290	0.0261	0.0000	832.2811
2037	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4548	0.0260	0.0000	829.1044
2038	1.5723	1.5118	2.5547	8.0400e-003	0.3499	0.0174	0.3672	0.0944	0.0173	0.1116			717.2439	0.0221	0.0000	717.7966
2039	52.2719	0.5054	1.8789	4.5100e-003	0.2899	0.0186	0.3086	0.0771	0.0185	0.0956			396.1107	0.0106	0.0000	396.3761
2040	126.3909	0.0857	0.3890	1.5700e-003	0.2152	1.2300e-003	0.2165	0.0572	1.1900e-003	0.0584			140.5538	1.8200e-003	0.0000	140.5992
Maximum	126.3909	4.5136	3.9248	9.4400e-003	2.1512	0.2031	2.3544	0.9216	0.1872	1.1087			847.1112	0.2311	0.0000	850.0387

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					
2021	0.4165	3.2764	2.8508	6.2100e-003	0.2865	0.1546	0.4411	0.0694	0.1436	0.2130			552.2829	0.1006	0.0000	554.7982
2022	0.4555	4.3896	3.1749	6.6800e-003	1.0204	0.2031	1.2235	0.4286	0.1872	0.6157			589.5302	0.1634	0.0000	593.6162
2023	0.4732	4.5136	3.9248	8.9800e-003	0.6813	0.1858	0.8672	0.2455	0.1710	0.4165			791.0116	0.2311	0.0000	796.7889
2024	0.3543	3.1208	3.2131	9.4100e-003	0.6196	0.1008	0.7204	0.1500	0.0941	0.2441			847.1107	0.1171	0.0000	850.0383

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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
Year	tons/yr										MT/yr					
2025	0.3070	2.6971	2.9653	9.3400e-003	0.3773	0.0716	0.4489	0.1023	0.0673	0.1696			845.5442	0.0885	0.0000	847.7564
2026	0.3006	2.6822	2.9155	9.2400e-003	0.3773	0.0715	0.4488	0.1023	0.0673	0.1696			835.6549	0.0879	0.0000	837.8533
2027	0.2945	2.6679	2.8658	9.1400e-003	0.3773	0.0714	0.4487	0.1023	0.0672	0.1695			826.8716	0.0874	0.0000	829.0561
2028	0.2872	2.6464	2.8120	9.0200e-003	0.3758	0.0710	0.4469	0.1019	0.0668	0.1687			816.1091	0.0865	0.0000	818.2723
2029	0.2820	2.6455	2.7824	8.9800e-003	0.3773	0.0712	0.4485	0.1023	0.0670	0.1693			812.4942	0.0864	0.0000	814.6537
2030	0.2681	2.0438	2.7556	9.4400e-003	0.3773	0.0216	0.3989	0.1023	0.0214	0.1237			847.0080	0.0286	0.0000	847.7221
2031	0.2616	2.0349	2.7217	9.3800e-003	0.3773	0.0215	0.3988	0.1023	0.0214	0.1237			841.9372	0.0282	0.0000	842.6410
2032	0.2570	2.0347	2.7031	9.3700e-003	0.3787	0.0215	0.4002	0.1027	0.0214	0.1240			840.8946	0.0279	0.0000	841.5923
2033	0.2502	2.0123	2.6577	9.2600e-003	0.3758	0.0212	0.3971	0.1019	0.0211	0.1230			830.8750	0.0274	0.0000	831.5594
2034	0.2461	2.0063	2.6348	9.2300e-003	0.3758	0.0212	0.3970	0.1019	0.0210	0.1230			827.8381	0.0271	0.0000	828.5158
2035	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4544	0.0260	0.0000	829.1040
2036	0.2323	1.9152	2.6303	9.2700e-003	0.3787	0.0137	0.3924	0.1027	0.0136	0.1163			831.6286	0.0261	0.0000	832.2806
2037	0.2314	1.9079	2.6203	9.2300e-003	0.3773	0.0136	0.3909	0.1023	0.0135	0.1158			828.4544	0.0260	0.0000	829.1040
2038	1.5723	1.5118	2.5547	8.0400e-003	0.3499	0.0174	0.3672	0.0944	0.0173	0.1116			717.2435	0.0221	0.0000	717.7962
2039	52.2719	0.5054	1.8789	4.5100e-003	0.2899	0.0186	0.3086	0.0771	0.0185	0.0956			396.1104	0.0106	0.0000	396.3759
2040	126.3909	0.0857	0.3890	1.5700e-003	0.2152	1.2300e-003	0.2165	0.0572	1.1900e-003	0.0584			140.5537	1.8200e-003	0.0000	140.5992
Maximum	126.3909	4.5136	3.9248	9.4400e-003	1.0204	0.2031	1.2235	0.4286	0.1872	0.6157			847.1107	0.2311	0.0000	850.0383

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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
Percent Reduction	0.00	0.00	0.00	0.00	21.33	0.00	19.19	25.65	0.00	19.17	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	2-14-2021	5-13-2021	0.5761	0.5761
4	5-14-2021	8-13-2021	1.2326	1.2326
5	8-14-2021	11-13-2021	1.2346	1.2346
6	11-14-2021	2-13-2022	1.1347	1.1347
7	2-14-2022	5-13-2022	1.1126	1.1126
8	5-14-2022	8-13-2022	1.1943	1.1943
9	8-14-2022	11-13-2022	1.3204	1.3204
10	11-14-2022	2-13-2023	1.3422	1.3422
11	2-14-2023	5-13-2023	1.2203	1.2203
12	5-14-2023	8-13-2023	1.2609	1.2609
13	8-14-2023	11-13-2023	1.2614	1.2614
14	11-14-2023	2-13-2024	1.2259	1.2259
15	2-14-2024	5-13-2024	0.8821	0.8821
16	5-14-2024	8-13-2024	0.7966	0.7966
17	8-14-2024	11-13-2024	0.7987	0.7987
18	11-14-2024	2-13-2025	0.7811	0.7811
19	2-14-2025	5-13-2025	0.7327	0.7327
20	5-14-2025	8-13-2025	0.7553	0.7553
21	8-14-2025	11-13-2025	0.7573	0.7573
22	11-14-2025	2-13-2026	0.7567	0.7567
23	2-14-2026	5-13-2026	0.7275	0.7275
24	5-14-2026	8-13-2026	0.7500	0.7500
25	8-14-2026	11-13-2026	0.7518	0.7518

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

26	11-14-2026	2-13-2027	0.7512	0.7512
27	2-14-2027	5-13-2027	0.7224	0.7224
28	5-14-2027	8-13-2027	0.7449	0.7449
29	8-14-2027	11-13-2027	0.7466	0.7466
30	11-14-2027	2-13-2028	0.7462	0.7462
31	2-14-2028	5-13-2028	0.7261	0.7261
32	5-14-2028	8-13-2028	0.7405	0.7405
33	8-14-2028	11-13-2028	0.7421	0.7421
34	11-14-2028	2-13-2029	0.7416	0.7416
35	2-14-2029	5-13-2029	0.7136	0.7136
36	5-14-2029	8-13-2029	0.7361	0.7361
37	8-14-2029	11-13-2029	0.7376	0.7376
38	11-14-2029	2-13-2030	0.6650	0.6650
39	2-14-2030	5-13-2030	0.5636	0.5636
40	5-14-2030	8-13-2030	0.5811	0.5811
41	8-14-2030	11-13-2030	0.5825	0.5825
42	11-14-2030	2-13-2031	0.5820	0.5820
43	2-14-2031	5-13-2031	0.5597	0.5597
44	5-14-2031	8-13-2031	0.5771	0.5771
45	8-14-2031	11-13-2031	0.5784	0.5784
46	11-14-2031	2-13-2032	0.5781	0.5781
47	2-14-2032	5-13-2032	0.5625	0.5625
48	5-14-2032	8-13-2032	0.5737	0.5737
49	8-14-2032	11-13-2032	0.5749	0.5749
50	11-14-2032	2-13-2033	0.5747	0.5747
51	2-14-2033	5-13-2033	0.5533	0.5533
52	5-14-2033	8-13-2033	0.5707	0.5707

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

53	8-14-2033	11-13-2033	0.5719	0.5719
54	11-14-2033	2-13-2034	0.5718	0.5718
55	2-14-2034	5-13-2034	0.5507	0.5507
56	5-14-2034	8-13-2034	0.5681	0.5681
57	8-14-2034	11-13-2034	0.5692	0.5692
58	11-14-2034	2-13-2035	0.5557	0.5557
59	2-14-2035	5-13-2035	0.5210	0.5210
60	5-14-2035	8-13-2035	0.5375	0.5375
61	8-14-2035	11-13-2035	0.5385	0.5385
62	11-14-2035	2-13-2036	0.5396	0.5396
63	2-14-2036	5-13-2036	0.5269	0.5269
64	5-14-2036	8-13-2036	0.5375	0.5375
65	8-14-2036	11-13-2036	0.5385	0.5385
66	11-14-2036	2-13-2037	0.5396	0.5396
67	2-14-2037	5-13-2037	0.5210	0.5210
68	5-14-2037	8-13-2037	0.5375	0.5375
69	8-14-2037	11-13-2037	0.5385	0.5385
70	11-14-2037	2-13-2038	0.5396	0.5396
71	2-14-2038	5-13-2038	0.5210	0.5210
72	5-14-2038	8-13-2038	0.5375	0.5375
73	8-14-2038	11-13-2038	1.0840	1.0840
74	11-14-2038	2-13-2039	1.2884	1.2884
75	2-14-2039	5-13-2039	1.2458	1.2458
76	5-14-2039	8-13-2039	1.2872	1.2872
77	8-14-2039	11-13-2039	27.6290	27.6290
78	11-14-2039	2-13-2040	43.0683	43.0683
79	2-14-2040	5-13-2040	42.1285	42.1285

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

80	5-14-2040	8-13-2040	43.0641	43.0641
81	8-14-2040	9-30-2040	20.5959	20.5959
		Highest	43.0683	43.0683

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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Energy	0.3116	2.7461	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			5,686.1058	0.4219	0.1316	5,735.8718
Mobile	8.9721	89.3008	96.6880	0.6184	62.5049	0.2398	62.7447	16.7289	0.2237	16.9526			62,182.2775	2.0358	0.0000	62,233.1723
Waste						0.0000	0.0000		0.0000	0.0000			2,705.8898	159.9135	0.0000	6,703.7275
Water						0.0000	0.0000		0.0000	0.0000			481.3034	14.2810	0.3460	941.4249
Total	103.7995	93.3476	150.5226	0.7758	62.5049	7.3837	69.8886	16.7289	7.3676	24.0965			72,568.6603	180.9560	0.4882	77,238.0542

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Energy	0.3116	2.7461	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			5,686.1058	0.4219	0.1316	5,735.8718
Mobile	8.9721	89.3008	96.6880	0.6184	62.5049	0.2398	62.7447	16.7289	0.2237	16.9526			62,182.2775	2.0358	0.0000	62,233.1723
Waste						0.0000	0.0000		0.0000	0.0000			2,705.8898	159.9135	0.0000	6,703.7275
Water						0.0000	0.0000		0.0000	0.0000			481.3034	14.2810	0.3460	941.4249
Total	103.7995	93.3476	150.5226	0.7758	62.5049	7.3837	69.8886	16.7289	7.3676	24.0965			72,568.6603	180.9560	0.4882	77,238.0542

	ROG	NOx	CO	SO2	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

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/9/2024	9/7/2038	5	3782	
2	Demolition	Demolition	4/1/2021	3/8/2022	5	244	
3	Site Preparation	Site Preparation	3/9/2022	9/28/2022	5	146	
4	Grading	Grading	9/28/2022	3/8/2024	5	378	
5	Paving	Paving	9/8/2038	9/16/2039	5	268	
6	Architectural Coating	Architectural Coating	9/17/2039	9/26/2040	5	268	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 945

Acres of Paving: 3331

Residential Indoor: 28,078,691; Residential Outdoor: 9,359,564; Non-Residential Indoor: 3,245,850; Non-Residential Outdoor: 1,081,950; Striped Parking Area: 8,705,902 (Architectural Coating – sqft)

OffRoad Equipment

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

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	280.00	100.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	280.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	280.00	0.00	1,250.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Grading	8	100.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Paving	6	280.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	16.00	0.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7601	0.0581	0.0000	247.2129
Total	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7601	0.0581	0.0000	247.2129

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0224	0.8272	0.1719	2.8500e-003	0.0700	8.5000e-004	0.0709	0.0202	8.1000e-004	0.0211			270.6645	0.0109	0.0000	270.9373
Worker	0.0881	0.0545	0.5852	1.9800e-003	0.2364	1.4200e-003	0.2378	0.0629	1.3100e-003	0.0642			179.2862	3.6800e-003	0.0000	179.3783
Total	0.1105	0.8817	0.7571	4.8300e-003	0.3064	2.2700e-003	0.3087	0.0831	2.1200e-003	0.0852			449.9507	0.0146	0.0000	450.3156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7598	0.0581	0.0000	247.2126
Total	0.1560	1.4250	1.7137	2.8600e-003		0.0650	0.0650		0.0612	0.0612			245.7598	0.0581	0.0000	247.2126

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0224	0.8272	0.1719	2.8500e-003	0.0700	8.5000e-004	0.0709	0.0202	8.1000e-004	0.0211			270.6645	0.0109	0.0000	270.9373
Worker	0.0881	0.0545	0.5852	1.9800e-003	0.2364	1.4200e-003	0.2378	0.0629	1.3100e-003	0.0642			179.2862	3.6800e-003	0.0000	179.3783
Total	0.1105	0.8817	0.7571	4.8300e-003	0.3064	2.2700e-003	0.3087	0.0831	2.1200e-003	0.0852			449.9507	0.0146	0.0000	450.3156

3.2 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0268	1.0090	0.2020	3.4800e-003	0.0862	1.0300e-003	0.0873	0.0249	9.8000e-004	0.0259			330.8983	0.0133	0.0000	331.2295
Worker	0.1018	0.0607	0.6642	2.3400e-003	0.2911	1.7100e-003	0.2928	0.0774	1.5700e-003	0.0790			211.9914	4.1000e-003	0.0000	212.0938
Total	0.1286	1.0698	0.8662	5.8200e-003	0.3773	2.7400e-003	0.3800	0.1023	2.5500e-003	0.1049			542.8897	0.0174	0.0000	543.3233

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0268	1.0090	0.2020	3.4800e-003	0.0862	1.0300e-003	0.0873	0.0249	9.8000e-004	0.0259			330.8983	0.0133	0.0000	331.2295
Worker	0.1018	0.0607	0.6642	2.3400e-003	0.2911	1.7100e-003	0.2928	0.0774	1.5700e-003	0.0790			211.9914	4.1000e-003	0.0000	212.0938
Total	0.1286	1.0698	0.8662	5.8200e-003	0.3773	2.7400e-003	0.3800	0.1023	2.5500e-003	0.1049			542.8897	0.0174	0.0000	543.3233

3.2 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			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0261	0.9996	0.1945	3.4600e-003	0.0862	1.0100e-003	0.0872	0.0249	9.7000e-004	0.0259			328.7969	0.0130	0.0000	329.1230
Worker	0.0961	0.0554	0.6219	2.2600e-003	0.2911	1.6700e-003	0.2927	0.0774	1.5400e-003	0.0789			204.2035	3.7500e-003	0.0000	204.2971
Total	0.1222	1.0549	0.8164	5.7200e-003	0.3773	2.6800e-003	0.3800	0.1023	2.5100e-003	0.1048			533.0004	0.0168	0.0000	533.4201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0261	0.9996	0.1945	3.4600e-003	0.0862	1.0100e-003	0.0872	0.0249	9.7000e-004	0.0259			328.7969	0.0130	0.0000	329.1230
Worker	0.0961	0.0554	0.6219	2.2600e-003	0.2911	1.6700e-003	0.2927	0.0774	1.5400e-003	0.0789			204.2035	3.7500e-003	0.0000	204.2971
Total	0.1222	1.0549	0.8164	5.7200e-003	0.3773	2.6800e-003	0.3800	0.1023	2.5100e-003	0.1048			533.0004	0.0168	0.0000	533.4201

3.2 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			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0255	0.9901	0.1881	3.4400e-003	0.0862	1.0000e-003	0.0872	0.0249	9.5000e-004	0.0259			326.9520	0.0128	0.0000	327.2727
Worker	0.0905	0.0506	0.5786	2.1800e-003	0.2911	1.5900e-003	0.2926	0.0774	1.4600e-003	0.0788			197.2651	3.4100e-003	0.0000	197.3503
Total	0.1161	1.0406	0.7667	5.6200e-003	0.3773	2.5900e-003	0.3799	0.1023	2.4100e-003	0.1047			524.2170	0.0162	0.0000	524.6230

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0255	0.9901	0.1881	3.4400e-003	0.0862	1.0000e-003	0.0872	0.0249	9.5000e-004	0.0259			326.9520	0.0128	0.0000	327.2727
Worker	0.0905	0.0506	0.5786	2.1800e-003	0.2911	1.5900e-003	0.2926	0.0774	1.4600e-003	0.0788			197.2651	3.4100e-003	0.0000	197.3503
Total	0.1161	1.0406	0.7667	5.6200e-003	0.3773	2.5900e-003	0.3799	0.1023	2.4100e-003	0.1047			524.2170	0.0162	0.0000	524.6230

3.2 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4953	0.0709	0.0000	303.2671

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0250	0.9792	0.1824	3.4100e-003	0.0859	9.8000e-004	0.0869	0.0248	9.4000e-004	0.0258			324.2361	0.0126	0.0000	324.5499
Worker	0.0845	0.0461	0.5386	2.1000e-003	0.2899	1.4700e-003	0.2914	0.0771	1.3600e-003	0.0784			190.3781	3.1000e-003	0.0000	190.4557
Total	0.1095	1.0253	0.7210	5.5100e-003	0.3758	2.4500e-003	0.3783	0.1019	2.3000e-003	0.1042			514.6141	0.0157	0.0000	515.0056

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645			301.4949	0.0709	0.0000	303.2667

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3.2 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0250	0.9792	0.1824	3.4100e-003	0.0859	9.8000e-004	0.0869	0.0248	9.4000e-004	0.0258			324.2361	0.0126	0.0000	324.5499
Worker	0.0845	0.0461	0.5386	2.1000e-003	0.2899	1.4700e-003	0.2914	0.0771	1.3600e-003	0.0784			190.3781	3.1000e-003	0.0000	190.4557
Total	0.1095	1.0253	0.7210	5.5100e-003	0.3758	2.4500e-003	0.3783	0.1019	2.3000e-003	0.1042			514.6141	0.0157	0.0000	515.0056

3.2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6549	0.0711	0.0000	304.4335

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0246	0.9759	0.1786	3.4100e-003	0.0862	9.8000e-004	0.0872	0.0249	9.3000e-004	0.0259			324.1898	0.0124	0.0000	324.4997
Worker	0.0789	0.0423	0.5047	2.0500e-003	0.2911	1.3800e-003	0.2924	0.0774	1.2700e-003	0.0787			185.6499	2.8400e-003	0.0000	185.7209
Total	0.1035	1.0182	0.6833	5.4600e-003	0.3773	2.3600e-003	0.3796	0.1023	2.2000e-003	0.1045			509.8396	0.0152	0.0000	510.2206

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648			302.6545	0.0711	0.0000	304.4331

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3.2 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0246	0.9759	0.1786	3.4100e-003	0.0862	9.8000e-004	0.0872	0.0249	9.3000e-004	0.0259			324.1898	0.0124	0.0000	324.4997
Worker	0.0789	0.0423	0.5047	2.0500e-003	0.2911	1.3800e-003	0.2924	0.0774	1.2700e-003	0.0787			185.6499	2.8400e-003	0.0000	185.7209
Total	0.1035	1.0182	0.6833	5.4600e-003	0.3773	2.3600e-003	0.3796	0.1023	2.2000e-003	0.1045			509.8396	0.0152	0.0000	510.2206

3.2 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777

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3.2 Building Construction - 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
Vendor	0.0243	0.9697	0.1751	3.4000e-003	0.0862	9.7000e-004	0.0872	0.0249	9.2000e-004	0.0258			323.1643	0.0122	0.0000	323.4696
Worker	0.0730	0.0387	0.4720	2.0000e-003	0.2911	1.2900e-003	0.2923	0.0774	1.1800e-003	0.0786			180.8104	2.5900e-003	0.0000	180.8752
Total	0.0972	1.0083	0.6471	5.4000e-003	0.3773	2.2600e-003	0.3795	0.1023	2.1000e-003	0.1044			503.9747	0.0148	0.0000	504.3448

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773

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3.2 Building Construction - 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
Vendor	0.0243	0.9697	0.1751	3.4000e-003	0.0862	9.7000e-004	0.0872	0.0249	9.2000e-004	0.0258			323.1643	0.0122	0.0000	323.4696
Worker	0.0730	0.0387	0.4720	2.0000e-003	0.2911	1.2900e-003	0.2923	0.0774	1.1800e-003	0.0786			180.8104	2.5900e-003	0.0000	180.8752
Total	0.0972	1.0083	0.6471	5.4000e-003	0.3773	2.2600e-003	0.3795	0.1023	2.1000e-003	0.1044			503.9747	0.0148	0.0000	504.3448

3.2 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0336	0.0138	0.0000	343.3777

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0240	0.9642	0.1725	3.3900e-003	0.0862	9.6000e-004	0.0872	0.0249	9.1000e-004	0.0258			322.3695	0.0120	0.0000	322.6703
Worker	0.0667	0.0352	0.4407	1.9500e-003	0.2911	1.2000e-003	0.2923	0.0774	1.1000e-003	0.0785			176.5345	2.3600e-003	0.0000	176.5934
Total	0.0907	0.9994	0.6132	5.3400e-003	0.3773	2.1600e-003	0.3794	0.1023	2.0100e-003	0.1043			498.9040	0.0144	0.0000	499.2637

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193			343.0332	0.0138	0.0000	343.3773

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3.2 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
Vendor	0.0240	0.9642	0.1725	3.3900e-003	0.0862	9.6000e-004	0.0872	0.0249	9.1000e-004	0.0258			322.3695	0.0120	0.0000	322.6703
Worker	0.0667	0.0352	0.4407	1.9500e-003	0.2911	1.2000e-003	0.2923	0.0774	1.1000e-003	0.0785			176.5345	2.3600e-003	0.0000	176.5934
Total	0.0907	0.9994	0.6132	5.3400e-003	0.3773	2.1600e-003	0.3794	0.1023	2.0100e-003	0.1043			498.9040	0.0144	0.0000	499.2637

3.2 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			344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194			344.3479	0.0138	0.0000	344.6933

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0239	0.9630	0.1714	3.4000e-003	0.0866	9.5000e-004	0.0875	0.0250	9.1000e-004	0.0259			323.0967	0.0119	0.0000	323.3949
Worker	0.0616	0.0324	0.4151	1.9100e-003	0.2922	1.1200e-003	0.2933	0.0777	1.0300e-003	0.0787			173.4504	2.1700e-003	0.0000	173.5045
Total	0.0855	0.9953	0.5865	5.3100e-003	0.3787	2.0700e-003	0.3808	0.1027	1.9400e-003	0.1046			496.5471	0.0141	0.0000	496.8994

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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			344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194			344.3475	0.0138	0.0000	344.6929

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0239	0.9630	0.1714	3.4000e-003	0.0866	9.5000e-004	0.0875	0.0250	9.1000e-004	0.0259			323.0967	0.0119	0.0000	323.3949
Worker	0.0616	0.0324	0.4151	1.9100e-003	0.2922	1.1200e-003	0.2933	0.0777	1.0300e-003	0.0787			173.4504	2.1700e-003	0.0000	173.5045
Total	0.0855	0.9953	0.5865	5.3100e-003	0.3787	2.0700e-003	0.3808	0.1027	1.9400e-003	0.1046			496.5471	0.0141	0.0000	496.8994

3.2 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 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
Vendor	0.0236	0.9512	0.1688	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.2840	0.0117	0.0000	320.5763
Worker	0.0564	0.0296	0.3885	1.8600e-003	0.2899	1.0400e-003	0.2910	0.0771	9.6000e-004	0.0780			168.8721	1.9800e-003	0.0000	168.9215
Total	0.0800	0.9808	0.5573	5.2300e-003	0.3758	1.9700e-003	0.3778	0.1019	1.8500e-003	0.1038			489.1561	0.0137	0.0000	489.4978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 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
Vendor	0.0236	0.9512	0.1688	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.2840	0.0117	0.0000	320.5763
Worker	0.0564	0.0296	0.3885	1.8600e-003	0.2899	1.0400e-003	0.2910	0.0771	9.6000e-004	0.0780			168.8721	1.9800e-003	0.0000	168.9215
Total	0.0800	0.9808	0.5573	5.2300e-003	0.3758	1.9700e-003	0.3778	0.1019	1.8500e-003	0.1038			489.1561	0.0137	0.0000	489.4978

3.2 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7193	0.0137	0.0000	342.0621

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0234	0.9472	0.1676	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.0773	0.0116	0.0000	320.3668
Worker	0.0525	0.0276	0.3668	1.8300e-003	0.2899	9.7000e-004	0.2909	0.0771	9.0000e-004	0.0780			166.0419	1.8200e-003	0.0000	166.0873
Total	0.0759	0.9748	0.5344	5.2000e-003	0.3758	1.9000e-003	0.3777	0.1019	1.7900e-003	0.1037			486.1192	0.0134	0.0000	486.4541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193			341.7189	0.0137	0.0000	342.0617

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 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
Vendor	0.0234	0.9472	0.1676	3.3700e-003	0.0859	9.3000e-004	0.0868	0.0248	8.9000e-004	0.0257			320.0773	0.0116	0.0000	320.3668
Worker	0.0525	0.0276	0.3668	1.8300e-003	0.2899	9.7000e-004	0.2909	0.0771	9.0000e-004	0.0780			166.0419	1.8200e-003	0.0000	166.0873
Total	0.0759	0.9748	0.5344	5.2000e-003	0.3758	1.9000e-003	0.3777	0.1019	1.7900e-003	0.1037			486.1192	0.0134	0.0000	486.4541

3.2 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530

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3.2 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526

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3.2 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

3.2 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3479	0.0128	0.0000	344.6686
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3479	0.0128	0.0000	344.6686

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0235	0.9509	0.1680	3.3900e-003	0.0866	9.3000e-004	0.0875	0.0250	8.8000e-004	0.0259			322.4070	0.0116	0.0000	322.6960
Worker	0.0494	0.0262	0.3509	1.8200e-003	0.2922	9.2000e-004	0.2931	0.0777	8.4000e-004	0.0785			164.8741	1.7000e-003	0.0000	164.9165
Total	0.0729	0.9771	0.5189	5.2100e-003	0.3787	1.8500e-003	0.3806	0.1027	1.7200e-003	0.1044			487.2811	0.0133	0.0000	487.6125

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3475	0.0128	0.0000	344.6682
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118			344.3475	0.0128	0.0000	344.6682

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3.2 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0235	0.9509	0.1680	3.3900e-003	0.0866	9.3000e-004	0.0875	0.0250	8.8000e-004	0.0259			322.4070	0.0116	0.0000	322.6960
Worker	0.0494	0.0262	0.3509	1.8200e-003	0.2922	9.2000e-004	0.2931	0.0777	8.4000e-004	0.0785			164.8741	1.7000e-003	0.0000	164.9165
Total	0.0729	0.9771	0.5189	5.2100e-003	0.3787	1.8500e-003	0.3806	0.1027	1.7200e-003	0.1044			487.2811	0.0133	0.0000	487.6125

3.2 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0336	0.0128	0.0000	343.3530

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118			343.0332	0.0128	0.0000	343.3526

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3.2 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0234	0.9473	0.1674	3.3800e-003	0.0862	9.2000e-004	0.0871	0.0249	8.8000e-004	0.0258			321.1764	0.0115	0.0000	321.4643
Worker	0.0492	0.0261	0.3496	1.8100e-003	0.2911	9.1000e-004	0.2920	0.0774	8.4000e-004	0.0782			164.2448	1.6900e-003	0.0000	164.2870
Total	0.0727	0.9733	0.5169	5.1900e-003	0.3773	1.8300e-003	0.3791	0.1023	1.7200e-003	0.1040			485.4212	0.0132	0.0000	485.7514

3.2 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9463	8.7100e-003	0.0000	234.1641
Total	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9463	8.7100e-003	0.0000	234.1641

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.2 Building Construction - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0160	0.6460	0.1141	2.3100e-003	0.0588	6.3000e-004	0.0594	0.0170	6.0000e-004	0.0176			219.0399	7.8500e-003	0.0000	219.2362
Worker	0.0336	0.0178	0.2384	1.2400e-003	0.1985	6.2000e-004	0.1991	0.0528	5.7000e-004	0.0534			112.0137	1.1500e-003	0.0000	112.0425
Total	0.0495	0.6638	0.3525	3.5500e-003	0.2573	1.2500e-003	0.2586	0.0698	1.1700e-003	0.0710			331.0535	9.0000e-003	0.0000	331.2787

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9460	8.7100e-003	0.0000	234.1639
Total	0.1083	0.6374	1.4345	2.7600e-003		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003			233.9460	8.7100e-003	0.0000	234.1639

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3.2 Building Construction - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0160	0.6460	0.1141	2.3100e-003	0.0588	6.3000e-004	0.0594	0.0170	6.0000e-004	0.0176			219.0399	7.8500e-003	0.0000	219.2362
Worker	0.0336	0.0178	0.2384	1.2400e-003	0.1985	6.2000e-004	0.1991	0.0528	5.7000e-004	0.0534			112.0137	1.1500e-003	0.0000	112.0425
Total	0.0495	0.6638	0.3525	3.5500e-003	0.2573	1.2500e-003	0.2586	0.0698	1.1700e-003	0.0710			331.0535	9.0000e-003	0.0000	331.2787

3.3 Demolition - 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					
Fugitive Dust					0.1316	0.0000	0.1316	0.0199	0.0000	0.0199			0.0000	0.0000	0.0000	0.0000
Off-Road	0.3118	3.0969	2.1242	3.8200e-003		0.1528	0.1528		0.1420	0.1420			334.9077	0.0943	0.0000	337.2643
Total	0.3118	3.0969	2.1242	3.8200e-003	0.1316	0.1528	0.2844	0.0199	0.1420	0.1619			334.9077	0.0943	0.0000	337.2643

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3.3 Demolition - 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	3.0900e-003	0.1092	0.0167	3.1000e-004	7.6000e-003	3.2000e-004	7.9300e-003	2.0600e-003	3.1000e-004	2.3700e-003			29.8993	1.5600e-003	0.0000	29.9384
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0704	0.7099	2.0700e-003	0.2197	1.4400e-003	0.2211	0.0584	1.3300e-003	0.0597			187.4762	4.7900e-003	0.0000	187.5959
Total	0.1047	0.1795	0.7266	2.3800e-003	0.2273	1.7600e-003	0.2291	0.0605	1.6400e-003	0.0621			217.3755	6.3500e-003	0.0000	217.5343

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0592	0.0000	0.0592	8.9700e-003	0.0000	8.9700e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.3118	3.0969	2.1242	3.8200e-003		0.1528	0.1528		0.1420	0.1420			334.9073	0.0943	0.0000	337.2639
Total	0.3118	3.0969	2.1242	3.8200e-003	0.0592	0.1528	0.2120	8.9700e-003	0.1420	0.1509			334.9073	0.0943	0.0000	337.2639

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3.3 Demolition - 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	3.0900e-003	0.1092	0.0167	3.1000e-004	7.6000e-003	3.2000e-004	7.9300e-003	2.0600e-003	3.1000e-004	2.3700e-003			29.8993	1.5600e-003	0.0000	29.9384
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0704	0.7099	2.0700e-003	0.2197	1.4400e-003	0.2211	0.0584	1.3300e-003	0.0597			187.4762	4.7900e-003	0.0000	187.5959
Total	0.1047	0.1795	0.7266	2.3800e-003	0.2273	1.7600e-003	0.2291	0.0605	1.6400e-003	0.0621			217.3755	6.3500e-003	0.0000	217.5343

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0314	0.0000	0.0314	4.7500e-003	0.0000	4.7500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6044	0.4840	9.1000e-004		0.0292	0.0292		0.0272	0.0272			79.8770	0.0224	0.0000	80.4380
Total	0.0620	0.6044	0.4840	9.1000e-004	0.0314	0.0292	0.0606	4.7500e-003	0.0272	0.0319			79.8770	0.0224	0.0000	80.4380

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3.3 Demolition - 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	6.9000e-004	0.0240	3.8500e-003	7.0000e-005	6.3700e-003	7.0000e-005	6.4300e-003	1.6100e-003	6.0000e-005	1.6700e-003			7.0436	3.6000e-004	0.0000	7.0524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0150	0.1545	4.8000e-004	0.0524	3.3000e-004	0.0528	0.0139	3.1000e-004	0.0142			43.1377	1.0200e-003	0.0000	43.1633
Total	0.0232	0.0390	0.1584	5.5000e-004	0.0588	4.0000e-004	0.0592	0.0155	3.7000e-004	0.0159			50.1813	1.3800e-003	0.0000	50.2157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0141	0.0000	0.0141	2.1400e-003	0.0000	2.1400e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6044	0.4840	9.1000e-004		0.0292	0.0292		0.0272	0.0272			79.8769	0.0224	0.0000	80.4379
Total	0.0620	0.6044	0.4840	9.1000e-004	0.0141	0.0292	0.0433	2.1400e-003	0.0272	0.0293			79.8769	0.0224	0.0000	80.4379

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3.3 Demolition - 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	6.9000e-004	0.0240	3.8500e-003	7.0000e-005	6.3700e-003	7.0000e-005	6.4300e-003	1.6100e-003	6.0000e-005	1.6700e-003			7.0436	3.6000e-004	0.0000	7.0524
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0150	0.1545	4.8000e-004	0.0524	3.3000e-004	0.0528	0.0139	3.1000e-004	0.0142			43.1377	1.0200e-003	0.0000	43.1633
Total	0.0232	0.0390	0.1584	5.5000e-004	0.0588	4.0000e-004	0.0592	0.0155	3.7000e-004	0.0159			50.1813	1.3800e-003	0.0000	50.2157

3.4 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3188	0.0000	1.3188	0.7249	0.0000	0.7249			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2314	2.4151	1.4379	2.7800e-003		0.1177	0.1177		0.1083	0.1083			244.1076	0.0790	0.0000	246.0813
Total	0.2314	2.4151	1.4379	2.7800e-003	1.3188	0.1177	1.4366	0.7249	0.1083	0.8332			244.1076	0.0790	0.0000	246.0813

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3.4 Site Preparation - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618
Total	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5935	0.0000	0.5935	0.3262	0.0000	0.3262			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2314	2.4151	1.4379	2.7800e-003		0.1177	0.1177		0.1083	0.1083			244.1073	0.0790	0.0000	246.0810
Total	0.2314	2.4151	1.4379	2.7800e-003	0.5935	0.1177	0.7112	0.3262	0.1083	0.4345			244.1073	0.0790	0.0000	246.0810

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3.4 Site Preparation - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618
Total	3.9900e-003	2.6700e-003	0.0274	8.0000e-005	9.3000e-003	6.0000e-005	9.3600e-003	2.4700e-003	5.0000e-005	2.5300e-003			7.6573	1.8000e-004	0.0000	7.6618

3.5 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7058	0.0000	0.7058	0.1667	0.0000	0.1667			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1232	1.3207	0.9874	2.1100e-003		0.0556	0.0556		0.0511	0.0511			185.4176	0.0600	0.0000	186.9168
Total	0.1232	1.3207	0.9874	2.1100e-003	0.7058	0.0556	0.7614	0.1667	0.0511	0.2178			185.4176	0.0600	0.0000	186.9168

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3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032
Total	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3176	0.0000	0.3176	0.0750	0.0000	0.0750			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1232	1.3207	0.9874	2.1100e-003		0.0556	0.0556		0.0511	0.0511			185.4174	0.0600	0.0000	186.9166
Total	0.1232	1.3207	0.9874	2.1100e-003	0.3176	0.0556	0.3732	0.0750	0.0511	0.1261			185.4174	0.0600	0.0000	186.9166

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3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032
Total	0.0116	7.7600e-003	0.0798	2.5000e-004	0.0271	1.7000e-004	0.0273	7.2000e-003	1.6000e-004	7.3600e-003			22.2900	5.3000e-004	0.0000	22.3032

3.5 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2840	0.0000	1.2840	0.4844	0.0000	0.4844			0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704			708.9577	0.2293	0.0000	714.6900
Total	0.4318	4.4870	3.6467	8.0700e-003	1.2840	0.1852	1.4691	0.4844	0.1704	0.6548			708.9577	0.2293	0.0000	714.6900

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3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998
Total	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5778	0.0000	0.5778	0.2180	0.0000	0.2180			0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704			708.9569	0.2293	0.0000	714.6891
Total	0.4318	4.4870	3.6467	8.0700e-003	0.5778	0.1852	0.7630	0.2180	0.1704	0.3884			708.9569	0.2293	0.0000	714.6891

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998
Total	0.0413	0.0266	0.2782	9.1000e-004	0.1036	6.4000e-004	0.1042	0.0275	5.9000e-004	0.0281			82.0547	1.8000e-003	0.0000	82.0998

3.5 Grading - 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					
Fugitive Dust					0.6516	0.0000	0.6516	0.1369	0.0000	0.1369			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8094	0.6931	1.5500e-003		0.0334	0.0334		0.0307	0.0307			136.2988	0.0441	0.0000	137.4009
Total	0.0805	0.8094	0.6931	1.5500e-003	0.6516	0.0334	0.6850	0.1369	0.0307	0.1676			136.2988	0.0441	0.0000	137.4009

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094
Total	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2932	0.0000	0.2932	0.0616	0.0000	0.0616			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0805	0.8094	0.6931	1.5500e-003		0.0334	0.0334		0.0307	0.0307			136.2987	0.0441	0.0000	137.4007
Total	0.0805	0.8094	0.6931	1.5500e-003	0.2932	0.0334	0.3266	0.0616	0.0307	0.0923			136.2987	0.0441	0.0000	137.4007

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3.5 Grading - 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094
Total	7.4200e-003	4.5900e-003	0.0493	1.7000e-004	0.0199	1.2000e-004	0.0200	5.2900e-003	1.1000e-004	5.4000e-003			15.1016	3.1000e-004	0.0000	15.1094

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0473	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0130	3.8500e-003	0.0000	100.1092
Paving	1.3514					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	1.3988	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0130	3.8500e-003	0.0000	100.1092

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.6 Paving - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445
Total	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0473	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0129	3.8500e-003	0.0000	100.1091
Paving	1.3514					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	1.3988	0.2024	0.6565	1.1600e-003		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003			100.0129	3.8500e-003	0.0000	100.1091

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3.6 Paving - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445
Total	0.0157	8.2800e-003	0.1112	5.8000e-004	0.0926	2.9000e-004	0.0929	0.0246	2.7000e-004	0.0249			52.2311	5.4000e-004	0.0000	52.2445

3.6 Paving - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1055	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9205	8.5800e-003	0.0000	223.1350
Paving	3.0122					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	3.1177	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9205	8.5800e-003	0.0000	223.1350

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

3.6 Paving - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487
Total	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1055	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9203	8.5800e-003	0.0000	223.1347
Paving	3.0122					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	3.1177	0.4510	1.4634	2.5900e-003		0.0173	0.0173		0.0173	0.0173			222.9203	8.5800e-003	0.0000	223.1347

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3.6 Paving - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487
Total	0.0349	0.0185	0.2478	1.2800e-003	0.2063	6.5000e-004	0.2070	0.0549	6.0000e-004	0.0555			116.4187	1.2000e-003	0.0000	116.4487

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	49.1007					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5836
Total	49.1051	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5836

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3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089
Total	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	49.1007					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5835
Total	49.1051	0.0284	0.0673	1.1000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004			9.5747	3.5000e-004	0.0000	9.5835

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3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089
Total	0.0142	7.4800e-003	0.1005	5.2000e-004	0.0836	2.6000e-004	0.0839	0.0222	2.4000e-004	0.0225			47.1968	4.9000e-004	0.0000	47.2089

3.7 Architectural Coating - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	126.3525					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606
Total	126.3635	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606

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3.7 Architectural Coating - 2040

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386
Total	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	126.3525					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606
Total	126.3635	0.0702	0.1730	2.9000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004			24.6389	8.7000e-004	0.0000	24.6606

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3.7 Architectural Coating - 2040

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386
Total	0.0273	0.0156	0.2160	1.2800e-003	0.2152	5.2000e-004	0.2157	0.0572	4.8000e-004	0.0577			115.9149	9.5000e-004	0.0000	115.9386

4.0 Operational Detail - Mobile

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	8.9721	89.3008	96.6880	0.6184	62.5049	0.2398	62.7447	16.7289	0.2237	16.9526			62,182.27 75	2.0358	0.0000	62,233.17 23
Unmitigated	8.9721	89.3008	96.6880	0.6184	62.5049	0.2398	62.7447	16.7289	0.2237	16.9526			62,182.27 75	2.0358	0.0000	62,233.17 23

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,581.60	1,718.40	1456.80	4,588,155	4,588,155
Apartments Mid Rise	798.00	766.80	703.20	2,260,297	2,260,297
City Park	58.59	705.25	518.94	462,696	462,696
Elementary School	7,144.09	0.00	0.00	11,251,631	11,251,631
General Office Building	12,011.67	2,678.94	1143.45	21,808,454	21,808,454
High School	5,968.07	2,023.31	828.77	12,227,722	12,227,722
Office Park	1,700.44	244.20	113.16	3,172,032	3,172,032
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	57,460.18	15,460.90	23106.40	84,133,584	84,133,584
Single Family Housing	9,358.16	9,741.53	8473.46	26,910,695	26,910,695
Total	96,080.80	33,339.33	36,344.18	166,815,266	166,815,266

4.3 Trip Type Information

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Office Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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			2,602.3381	0.3628	0.0751	2,633.7788
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			2,602.3381	0.3628	0.0751	2,633.7788
NaturalGas Mitigated	0.3116	2.7461	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			3,083.7677	0.0591	0.0565	3,102.0930
NaturalGas Unmitigated	0.3116	2.7461	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			3,083.7677	0.0591	0.0565	3,102.0930

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	2.90369e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108			154.9521	2.9700e-003	2.8400e-003	155.8729
Apartments Mid Rise	1.16977e+006	6.3100e-003	0.0539	0.0229	3.4000e-004		4.3600e-003	4.3600e-003		4.3600e-003	4.3600e-003			62.4235	1.2000e-003	1.1400e-003	62.7944
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
Elementary School	4.38461e+006	0.0236	0.2149	0.1805	1.2900e-003		0.0163	0.0163		0.0163	0.0163			233.9795	4.4800e-003	4.2900e-003	235.3699
General Office Building	1.79249e+007	0.0967	0.8787	0.7381	5.2700e-003		0.0668	0.0668		0.0668	0.0668			956.5431	0.0183	0.0175	962.2273
High School	4.38461e+006	0.0236	0.2149	0.1805	1.2900e-003		0.0163	0.0163		0.0163	0.0163			233.9795	4.4800e-003	4.2900e-003	235.3699
Office Park	1.6245e+006	8.7600e-003	0.0796	0.0669	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003			86.6895	1.6600e-003	1.5900e-003	87.2046
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
Recreational Swimming Pool	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
Single Family Housing	2.53955e+007	0.1369	1.1702	0.4980	7.4700e-003		0.0946	0.0946		0.0946	0.0946			1,355.2006	0.0260	0.0249	1,363.2539
Total		0.3116	2.7460	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			3,083.7677	0.0591	0.0565	3,102.0930

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	2.90369e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108			154.9521	2.9700e-003	2.8400e-003	155.8729
Apartments Mid Rise	1.16977e+006	6.3100e-003	0.0539	0.0229	3.4000e-004		4.3600e-003	4.3600e-003		4.3600e-003	4.3600e-003			62.4235	1.2000e-003	1.1400e-003	62.7944
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
Elementary School	4.38461e+006	0.0236	0.2149	0.1805	1.2900e-003		0.0163	0.0163		0.0163	0.0163			233.9795	4.4800e-003	4.2900e-003	235.3699
General Office Building	1.79249e+007	0.0967	0.8787	0.7381	5.2700e-003		0.0668	0.0668		0.0668	0.0668			956.5431	0.0183	0.0175	962.2273
High School	4.38461e+006	0.0236	0.2149	0.1805	1.2900e-003		0.0163	0.0163		0.0163	0.0163			233.9795	4.4800e-003	4.2900e-003	235.3699
Office Park	1.6245e+006	8.7600e-003	0.0796	0.0669	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003			86.6895	1.6600e-003	1.5900e-003	87.2046
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
Recreational Swimming Pool	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
Single Family Housing	2.53955e+007	0.1369	1.1702	0.4980	7.4700e-003		0.0946	0.0946		0.0946	0.0946			1,355.2006	0.0260	0.0249	1,363.2539
Total		0.3116	2.7460	1.7439	0.0170		0.2153	0.2153		0.2153	0.2153			3,083.7677	0.0591	0.0565	3,102.0930

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.07862e+006	101.7646	0.0142	2.9400e-003	102.9941
Apartments Mid Rise	510775	48.1902	6.7200e-003	1.3900e-003	48.7724
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.61132e+006	246.3708	0.0344	7.1100e-003	249.3474
General Office Building	1.09009e+007	1,028.4686	0.1434	0.0297	1,040.8943
High School	2.61132e+006	246.3708	0.0344	7.1100e-003	249.3474
Office Park	1.56941e+006	148.0691	0.0206	4.2700e-003	149.8580
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.30024e+006	783.1041	0.1092	0.0226	792.5654
Total		2,602.3381	0.3628	0.0751	2,633.7788

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.07862e+006	101.7646	0.0142	2.9400e-003	102.9941
Apartments Mid Rise	510775	48.1902	6.7200e-003	1.3900e-003	48.7724
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.61132e+006	246.3708	0.0344	7.1100e-003	249.3474
General Office Building	1.09009e+007	1,028.4686	0.1434	0.0297	1,040.8943
High School	2.61132e+006	246.3708	0.0344	7.1100e-003	249.3474
Office Park	1.56941e+006	148.0691	0.0206	4.2700e-003	149.8580
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.30024e+006	783.1041	0.1092	0.0226	792.5654
Total		2,602.3381	0.3628	0.0751	2,633.7788

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Unmitigated	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

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	17.5453					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	71.9969					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	4.6707	1.1856	42.0967	0.1399		6.8731	6.8731		6.8731	6.8731			1,496.6657	4.2880	0.0107	1,607.0436
Landscaping	0.3030	0.1152	9.9941	5.3000e-004		0.0555	0.0555		0.0555	0.0555			16.4181	0.0158	0.0000	16.8140
Total	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin 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	17.5453					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	71.9969					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	4.6707	1.1856	42.0967	0.1399		6.8731	6.8731		6.8731	6.8731			1,496.6657	4.2880	0.0107	1,607.0436
Landscaping	0.3030	0.1152	9.9941	5.3000e-004		0.0555	0.0555		0.0555	0.0555			16.4181	0.0158	0.0000	16.8140
Total	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

7.0 Water Detail

7.1 Mitigation Measures Water

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	481.3034	14.2810	0.3460	941.4249
Unmitigated	481.3034	14.2810	0.3460	941.4249

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	15.637 / 9.85809	16.1991	0.5111	0.0124	32.6584
Apartments Mid Rise	7.81848 / 4.92904	8.0995	0.2556	6.1800e-003	16.3292
City Park	0 / 36.9359	12.1968	1.7000e-003	3.5000e-004	12.3442
Elementary School	13.4256 / 34.5229	22.5132	0.4400	0.0109	36.7488
General Office Building	193.552 / 118.629	199.3889	6.3261	0.1529	403.1064
High School	15.3737 / 39.5325	25.7801	0.5039	0.0124	42.0814
Office Park	26.4646 / 16.2202	27.2626	0.8650	0.0209	55.1171
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	64.0464 / 40.3771	66.3486	2.0934	0.0506	133.7632
Total		481.3034	14.2810	0.3460	941.4249

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	15.637 / 9.85809	16.1991	0.5111	0.0124	32.6584
Apartments Mid Rise	7.81848 / 4.92904	8.0995	0.2556	6.1800e-003	16.3292
City Park	0 / 36.9359	12.1968	1.7000e-003	3.5000e-004	12.3442
Elementary School	13.4256 / 34.5229	22.5132	0.4400	0.0109	36.7488
General Office Building	193.552 / 118.629	199.3889	6.3261	0.1529	403.1064
High School	15.3737 / 39.5325	25.7801	0.5039	0.0124	42.0814
Office Park	26.4646 / 16.2202	27.2626	0.8650	0.0209	55.1171
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	64.0464 / 40.3771	66.3486	2.0934	0.0506	133.7632
Total		481.3034	14.2810	0.3460	941.4249

8.0 Waste Detail

8.1 Mitigation Measures Waste

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,705.889 8	159.9135	0.0000	6,703.727 5
Unmitigated	2,705.889 8	159.9135	0.0000	6,703.727 5

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	110.4	22.4102	1.3244	0.0000	55.5203
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	27.7602
City Park	2.67	0.5420	0.0320	0.0000	1.3428
Elementary School	601.9	122.1803	7.2207	0.0000	302.6964
General Office Building	1012.77	205.5832	12.1496	0.0000	509.3236
High School	601.9	122.1803	7.2207	0.0000	302.6964
Office Park	138.48	28.1102	1.6613	0.0000	69.6418
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	1122.48	227.8533	13.4657	0.0000	564.4969
Total		2,705.8898	159.9135	0.0000	6,703.7275

River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	110.4	22.4102	1.3244	0.0000	55.5203
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	27.7602
City Park	2.67	0.5420	0.0320	0.0000	1.3428
Elementary School	601.9	122.1803	7.2207	0.0000	302.6964
General Office Building	1012.77	205.5832	12.1496	0.0000	509.3236
High School	601.9	122.1803	7.2207	0.0000	302.6964
Office Park	138.48	28.1102	1.6613	0.0000	69.6418
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	1122.48	227.8533	13.4657	0.0000	564.4969
Total		2,705.8898	159.9135	0.0000	6,703.7275

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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River Islands Phase 2 Construction Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

River Islands Phase 2 Construction Emissions (Max Daily)

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,696.00	1000sqft	61.89	2,696,000.00	0
Elementary School	2,353.00	1000sqft	54.02	2,353,000.00	0
High School	2,353.00	1000sqft	54.02	2,353,000.00	0
Other Asphalt Surfaces	198.60	Acre	198.60	8,651,016.00	0
City Park	255.00	Acre	255.00	11,107,800.00	0
Recreational Swimming Pool	8,494.00	1000sqft	195.00	8,494,000.00	0
Apartments Low Rise	1,837.00	Dwelling Unit	172.20	1,837,000.00	5827
Apartments Mid Rise	712.00	Dwelling Unit	36.40	712,000.00	2258
Condo/Townhouse	2,439.00	Dwelling Unit	154.80	2,439,000.00	7737
Single Family Housing	4,061.00	Dwelling Unit	802.00	7,309,800.00	12881
Apartments Mid Rise	1,677.00	Dwelling Unit	120.90	1,677,000.00	5319

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for worst-case scenario max daily construction emissions only.

Land Use - Land uses derived from Chapter 2. Project Description

Construction Phase - Construction period amended to occur over 1 day to assess worst case scenario emissions modeling.

Off-road Equipment - CalEEMod defaults used

Demolition -

Grading - No import or export of materials.

Trips and VMT - Estimated peak construction crew: 224

Architectural Coating -

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Off-road Equipment - Based on equipment models provided by applicant

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155,000.00	1.00
tblConstructionPhase	PhaseEndDate	2/12/2736	4/1/2021
tblConstructionPhase	PhaseStartDate	12/28/2141	4/1/2021
tblLandUse	LotAcreage	114.81	172.20
tblLandUse	LotAcreage	18.74	36.40
tblLandUse	LotAcreage	152.44	154.80
tblLandUse	LotAcreage	1,318.51	802.00
tblLandUse	LotAcreage	44.13	120.90
tblOffRoadEquipment	HorsePower	367.00	515.00
tblOffRoadEquipment	HorsePower	247.00	364.00
tblOffRoadEquipment	HorsePower	402.00	248.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	97.00	149.00

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

tblOffRoadEquipment	HorsePower	402.00	504.00
tblOffRoadEquipment	LoadFactor	0.48	0.29
tblOffRoadEquipment	LoadFactor	0.40	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.74
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.45
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	VendorTripNumber	6,990.00	100.00
tblTripsAndVMT	WorkerTripNumber	20,966.00	448.00
tblWoodstoves	NumberCatalytic	157.30	36.40
tblWoodstoves	NumberNoncatalytic	157.30	36.40

2.0 Emissions Summary

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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	1,200.034 3	218.3387	6,358.608 9	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2 108	615.0993	2.8004	301,185.2 238
Energy	8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.14 16	1.7884	1.7107	93,864.63 71
Mobile	355.6815	2,934.345 7	3,352.009 9	21.6233	2,130.525 8	7.7088	2,138.234 6	568.8033	7.1944	575.9977			2,208,493. 1337	72.4476		2,210,304. 3231
Total	1,564.269 2	3,227.210 7	9,752.233 7	40.6004	2,130.525 8	913.1996	3,043.725 4	568.8033	912.6853	1,481.4886			2,586,776. 4861	689.3353	4.5111	2,605,354. 1840

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	1,200.034 3	218.3387	6,358.608 9	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2 108	615.0993	2.8004	301,185.2 238
Energy	8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.14 16	1.7884	1.7107	93,864.63 71
Mobile	355.6815	2,934.345 7	3,352.009 9	21.6233	2,130.525 8	7.7088	2,138.234 6	568.8033	7.1944	575.9977			2,208,493. 1337	72.4476		2,210,304. 3231
Total	1,564.269 2	3,227.210 7	9,752.233 7	40.6004	2,130.525 8	913.1996	3,043.725 4	568.8033	912.6853	1,481.4886			2,586,776. 4861	689.3353	4.5111	2,605,354. 1840

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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	Building Construction	Building Construction	4/1/2021	4/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 198.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Off-Highway Trucks	17	8.00	402	0.38
Building Construction	Off-Highway Trucks	4	8.00	504	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Scrapers	12	8.00	515	0.29
Building Construction	Rubber Tired Dozers	4	8.00	364	0.20
Building Construction	Off-Highway Trucks	3	8.00	248	0.74
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Building Construction	Excavators	9	7.00	396	0.37
Building Construction	Tractors/Loaders/Backhoes	5	8.00	149	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	60	448.00	100.00	0.00	10.80	7.30	15.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

3.2 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	32.8239	315.7304	225.1583	0.6646		12.2482	12.2482		11.2877	11.2877			64,289.3801	20.5827		64,803.9474
Total	32.8239	315.7304	225.1583	0.6646		12.2482	12.2482		11.2877	11.2877			64,289.3801	20.5827		64,803.9474

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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
Vendor	0.3252	10.5791	2.0458	0.0284	0.6775	0.0300	0.7075	0.1951	0.0287	0.2237			2,971.3050	0.1646		2,975.4207
Worker	1.8286	1.0339	13.0330	0.0367	3.6802	0.0234	3.7036	0.9762	0.0216	0.9977			3,651.4285	0.0937		3,653.7705
Total	2.1538	11.6130	15.0788	0.0650	4.3577	0.0534	4.4111	1.1712	0.0502	1.2215			6,622.7335	0.2583		6,629.1912

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

3.2 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	32.8239	315.7304	225.1583	0.6646		12.2482	12.2482		11.2877	11.2877			64,289.3800	20.5827		64,803.9473
Total	32.8239	315.7304	225.1583	0.6646		12.2482	12.2482		11.2877	11.2877			64,289.3800	20.5827		64,803.9473

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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
Vendor	0.3252	10.5791	2.0458	0.0284	0.6775	0.0300	0.7075	0.1951	0.0287	0.2237			2,971.3050	0.1646		2,975.4207
Worker	1.8286	1.0339	13.0330	0.0367	3.6802	0.0234	3.7036	0.9762	0.0216	0.9977			3,651.4285	0.0937		3,653.7705
Total	2.1538	11.6130	15.0788	0.0650	4.3577	0.0534	4.4111	1.1712	0.0502	1.2215			6,622.7335	0.2583		6,629.1912

4.0 Operational Detail - Mobile

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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	355.6815	2,934.3457	3,352.0099	21.6233	2,130.5258	7.7088	2,138.2346	568.8033	7.1944	575.9977			2,208,493.1337	72.4476		2,210,304.3231
Unmitigated	355.6815	2,934.3457	3,352.0099	21.6233	2,130.5258	7.7088	2,138.2346	568.8033	7.1944	575.9977			2,208,493.1337	72.4476		2,210,304.3231

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	12,105.83	13,152.92	11150.59	35,118,500	35,118,500
Apartments Mid Rise	4,734.80	4,549.68	4172.32	13,411,096	13,411,096
Apartments Mid Rise	11,152.05	10,716.03	9827.22	31,587,651	31,587,651
City Park	481.95	5,801.25	4268.70	3,806,046	3,806,046
Condo/Townhouse	14,170.59	13,829.13	11804.76	39,943,026	39,943,026
Elementary School	36,306.79	0.00	0.00	57,181,615	57,181,615
General Office Building	29,736.88	6,632.16	2830.80	53,990,443	53,990,443
High School	30,330.17	10,282.61	4211.87	62,142,183	62,142,183
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	287,267.08	77,295.40	115518.40	420,618,400	420,618,400
Single Family Housing	38,660.72	40,244.51	35005.82	111,174,296	111,174,296
Total	464,946.86	182,503.69	198,790.48	828,973,256	828,973,256

4.3 Trip Type Information

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin County, Summer

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	8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.1416	1.7884	1.7107	93,864.6371
NaturalGas Unmitigated	8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.1416	1.7884	1.7107	93,864.6371

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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 Low Rise	60891.4	0.6567	5.6116	2.3879	0.0358		0.4537	0.4537		0.4537	0.4537			7,163.6901	0.1373	0.1313	7,206.2604
Apartments Mid Rise	19015.5	0.2051	1.7524	0.7457	0.0112		0.1417	0.1417		0.1417	0.1417			2,237.1143	0.0429	0.0410	2,250.4084
Apartments Mid Rise	44787.8	0.4830	4.1275	1.7564	0.0264		0.3337	0.3337		0.3337	0.3337			5,269.1583	0.1010	0.0966	5,300.4703
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
Condo/Townhouse	137327	1.4810	12.6557	5.3854	0.0808		1.0232	1.0232		1.0232	1.0232			16,156.1640	0.3097	0.2962	16,252.1720
Elementary School	61049.1	0.6584	5.9852	5.0276	0.0359		0.4549	0.4549		0.4549	0.4549			7,182.2434	0.1377	0.1317	7,224.9238
General Office Building	121579	1.3111	11.9195	10.0124	0.0715		0.9059	0.9059		0.9059	0.9059			14,303.3554	0.2742	0.2622	14,388.3531
High School	61049.1	0.6584	5.9852	5.0276	0.0359		0.4549	0.4549		0.4549	0.4549			7,182.2434	0.1377	0.1317	7,224.9238
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
Recreational Swimming Pool	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
Single Family Housing	287437	3.0998	26.4893	11.2721	0.1691		2.1417	2.1417		2.1417	2.1417			33,816.1728	0.6481	0.6200	34,017.1254
Total		8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.1416	1.7884	1.7107	93,864.6371

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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 Low Rise	60.8914	0.6567	5.6116	2.3879	0.0358		0.4537	0.4537		0.4537	0.4537			7,163.6901	0.1373	0.1313	7,206.2604
Apartments Mid Rise	19.0155	0.2051	1.7524	0.7457	0.0112		0.1417	0.1417		0.1417	0.1417			2,237.1143	0.0429	0.0410	2,250.4084
Apartments Mid Rise	44.7878	0.4830	4.1275	1.7564	0.0264		0.3337	0.3337		0.3337	0.3337			5,269.1583	0.1010	0.0966	5,300.4703
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
Condo/Townhouse	137.327	1.4810	12.6557	5.3854	0.0808		1.0232	1.0232		1.0232	1.0232			16,156.1640	0.3097	0.2962	16,252.1720
Elementary School	61.0491	0.6584	5.9852	5.0276	0.0359		0.4549	0.4549		0.4549	0.4549			7,182.2434	0.1377	0.1317	7,224.9238
General Office Building	121.579	1.3111	11.9195	10.0124	0.0715		0.9059	0.9059		0.9059	0.9059			14,303.3554	0.2742	0.2622	14,388.3531
High School	61.0491	0.6584	5.9852	5.0276	0.0359		0.4549	0.4549		0.4549	0.4549			7,182.2434	0.1377	0.1317	7,224.9238
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
Recreational Swimming Pool	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
Single Family Housing	287.437	3.0998	26.4893	11.2721	0.1691		2.1417	2.1417		2.1417	2.1417			33,816.1728	0.6481	0.6200	34,017.1254
Total		8.5534	74.5263	41.6149	0.4666		5.9096	5.9096		5.9096	5.9096			93,310.1416	1.7884	1.7107	93,864.6371

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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	1,200.034 3	218.3387	6,358.608 9	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2 108	615.0993	2.8004	301,185.2 238
Unmitigated	1,200.034 3	218.3387	6,358.608 9	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2 108	615.0993	2.8004	301,185.2 238

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	101.0589					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	461.1000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	611.3730	208.1545	5,475.929 0	18.4636		894.6680	894.6680		894.6680	894.6680			283,376.2 606	613.5735	2.8004	299,550.1 275
Landscaping	26.5024	10.1842	882.6799	0.0469		4.9132	4.9132		4.9132	4.9132			1,596.950 1	1.5259		1,635.096 3
Total	1,200.034 3	218.3387	6,358.608 9	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2 108	615.0993	2.8004	301,185.2 238

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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	101.0589					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	461.1000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	611.3730	208.1545	5,475.9290	18.4636		894.6680	894.6680		894.6680	894.6680			283,376.2606	613.5735	2.8004	299,550.1275
Landscaping	26.5024	10.1842	882.6799	0.0469		4.9132	4.9132		4.9132	4.9132			1,596.9501	1.5259		1,635.0963
Total	1,200.0343	218.3387	6,358.6089	18.5105		899.5812	899.5812		899.5812	899.5812			284,973.2108	615.0993	2.8004	301,185.2238

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

River Islands Phase 2 Construction Emissions (Max Daily) - San Joaquin 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

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

River Islands Phase 2 Operational Emissions (With Valley Link)
San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	539.00	1000sqft	12.37	539,000.00	0
Elementary School	471.00	1000sqft	10.81	471,000.00	0
High School	471.00	1000sqft	10.81	471,000.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	51.00	Acre	51.00	2,221,560.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	367.00	Dwelling Unit	34.44	367,000.00	1164
Apartments Mid Rise	142.00	Dwelling Unit	7.28	142,400.00	450
Apartments Mid Rise	335.00	Dwelling Unit	24.18	1,461,960.00	1063
Condo/Townhouse	488.00	Dwelling Unit	30.96	487,800.00	1548
Single Family Housing	812.00	Dwelling Unit	160.40	335,400.00	2576

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 980,000,000 (196,000,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - Recreational swimming pool is a surrogate land use for lakes. Indoor water use values adjusted to be consistent with public utilities chapter

Solid Waste - Recreational swimming pool is a surrogate land use for lakes and would not generate solid waste. Values adjusted to reflect Utilities chapter

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	381.61	179.35
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.20
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9,411.72	4,423.50
tblEnergyUse	T24NG	7,061.10	3,318.70
tblEnergyUse	T24NG	17,864.25	8,396.00

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.19
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	23,147.69	10,879.00
tblLandUse	LandUseSquareFeet	142,000.00	142,400.00
tblLandUse	LandUseSquareFeet	335,000.00	1,461,960.00
tblLandUse	LandUseSquareFeet	488,000.00	487,800.00
tblLandUse	LandUseSquareFeet	1,461,600.00	335,400.00
tblLandUse	LotAcreage	22.94	34.44
tblLandUse	LotAcreage	3.74	7.28
tblLandUse	LotAcreage	8.82	24.18
tblLandUse	LotAcreage	30.50	30.96
tblLandUse	LotAcreage	263.64	160.40
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblSolidWaste	SolidWasteGenerationRate	168.82	635.27
tblSolidWaste	SolidWasteGenerationRate	219.42	825.67
tblSolidWaste	SolidWasteGenerationRate	4.39	16.52
tblSolidWaste	SolidWasteGenerationRate	224.48	844.71
tblSolidWaste	SolidWasteGenerationRate	612.30	2,304.07
tblSolidWaste	SolidWasteGenerationRate	501.27	1,886.27
tblSolidWaste	SolidWasteGenerationRate	612.30	2,304.07
tblSolidWaste	SolidWasteGenerationRate	9,684.30	0.00
tblSolidWaste	SolidWasteGenerationRate	927.36	3,489.63
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.9990e-003	3.0410e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4260e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	3.4120e-003	3.4600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2430e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	8.8990e-003	9.0240e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.8480e-003	2.8880e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2010e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003

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tblVehicleEF	LDT1	4.3640e-003	4.4260e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4560e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45
tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.9590e-003	5.0290e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03

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tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.1450e-003	4.2030e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.0460e-003	6.1310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59
tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.7190e-003	4.7860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	5.3620e-003	5.4380e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.8160e-003	7.9260e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.4830e-003	4.5460e-003

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6250e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.6280e-003	6.7210e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7740e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05

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tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.3010e-003	6.3900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	WD_TR	6.59	9.40

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tblVehicleTrips	WD_TR	6.65	8.40
tblVehicleTrips	WD_TR	1.89	3.78
tblVehicleTrips	WD_TR	5.81	8.70
tblVehicleTrips	WD_TR	15.43	18.90
tblVehicleTrips	WD_TR	11.03	13.40
tblVehicleTrips	WD_TR	12.89	14.60
tblVehicleTrips	WD_TR	33.82	38.00
tblVehicleTrips	WD_TR	9.52	14.78
tblWater	IndoorWaterUseRate	23,911,527.40	17,176,565.00
tblWater	IndoorWaterUseRate	31,078,470.22	22,324,854.00
tblWater	IndoorWaterUseRate	31,795,164.50	22,839,683.00
tblWater	IndoorWaterUseRate	13,657,548.01	9,810,739.00
tblWater	IndoorWaterUseRate	95,798,490.17	68,815,719.00
tblWater	IndoorWaterUseRate	15,639,385.44	11,234,369.00
tblWater	IndoorWaterUseRate	100,484,201.72	0.00
tblWater	IndoorWaterUseRate	52,905,068.80	38,003,734.00
tblWater	OutdoorWaterUseRate	61,587,091.38	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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
Year	tons/yr										MT/yr					
2021	2.1683	17.5429	15.3213	0.0724	4.2048	0.1580	4.3628	1.1390	0.1488	1.2878			6,708.513 1	0.3437	0.0000	6,717.106 4
2022	2.6477	21.7450	18.6486	0.0936	5.5494	0.1808	5.7302	1.5032	0.1703	1.6735			8,676.858 7	0.4286	0.0000	8,687.573 1
2023	2.3367	17.3160	16.9126	0.0909	5.5495	0.1325	5.6820	1.5032	0.1244	1.6276			8,428.005 3	0.3372	0.0000	8,436.436 1
2024	2.2120	17.0836	15.9351	0.0896	5.5921	0.1213	5.7134	1.5148	0.1138	1.6286			8,308.706 6	0.3289	0.0000	8,316.928 0
2025	2.0796	16.6642	14.8858	0.0874	5.5708	0.1089	5.6797	1.5090	0.1021	1.6111			8,113.5879	0.3180	0.0000	8,121.538 2
2026	1.9845	16.4511	14.1462	0.0858	5.5708	0.1081	5.6789	1.5090	0.1014	1.6104			7,967.404 9	0.3099	0.0000	7,975.152 8
2027	1.8930	16.2463	13.4077	0.0844	5.5708	0.1066	5.6775	1.5090	0.1000	1.6091			7,837.549 4	0.3019	0.0000	7,845.095 7
2028	1.7943	16.0211	12.7201	0.0828	5.5495	0.1045	5.6540	1.5032	0.0980	1.6013			7,695.1111	0.2932	0.0000	7,702.440 9
2029	1.7059	15.9239	12.1665	0.0820	5.5708	0.1032	5.6740	1.5090	0.0969	1.6059			7,624.733 6	0.2873	0.0000	7,631.915 8
2030	1.6045	15.1906	11.6372	0.0816	5.5708	0.0522	5.6230	1.5090	0.0500	1.5590			7,578.198 9	0.2236	0.0000	7,583.788 7
2031	1.5075	15.0618	11.1303	0.0808	5.5708	0.0507	5.6215	1.5090	0.0487	1.5577			7,502.962 8	0.2176	0.0000	7,508.401 8
2032	1.4290	15.0059	10.7400	0.0804	5.5922	0.0496	5.6417	1.5148	0.0476	1.5624			7,468.219 0	0.2132	0.0000	7,473.550 0
2033	1.3458	14.7918	10.2880	0.0792	5.5495	0.0480	5.5975	1.5033	0.0461	1.5494			7,357.570 2	0.2070	0.0000	7,362.746 0
2034	1.2850	14.7054	9.9464	0.0787	5.5495	0.0468	5.5963	1.5033	0.0451	1.5483			7,312.244 3	0.2031	0.0000	7,317.320 8
2035	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.001 9	0.1994	0.0000	7,306.985 7
2036	1.2295	14.6430	9.7243	0.0788	5.5922	0.0386	5.6308	1.5148	0.0369	1.5517			7,329.978 9	0.2001	0.0000	7,334.981 8
2037	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.001 9	0.1994	0.0000	7,306.985 7
2038	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.001 9	0.1994	0.0000	7,306.985 7

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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
Year	tons/yr										MT/yr					
2039	1.2201	14.5312	9.6500	0.0782	5.5495	0.0383	5.5878	1.5033	0.0366	1.5399			7,274.0249	0.1986	0.0000	7,278.9896
2040	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2308	0.1876	0.0000	7,202.9212
2041	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2308	0.1876	0.0000	7,202.9212
2042	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2308	0.1876	0.0000	7,202.9212
2043	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2308	0.1876	0.0000	7,202.9212
2044	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2308	0.1876	0.0000	7,202.9212
2045	0.9591	14.1455	8.4294	0.0766	5.5495	0.0311	5.5806	1.5033	0.0298	1.5331			7,125.3634	0.1810	0.0000	7,129.8888
2046	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7687	0.1817	0.0000	7,157.3114
2047	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7687	0.1817	0.0000	7,157.3114
2048	0.9665	14.2543	8.4942	0.0772	5.5922	0.0314	5.6236	1.5148	0.0301	1.5449			7,180.1739	0.1824	0.0000	7,184.7341
2049	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7687	0.1817	0.0000	7,157.3114
2050	0.8936	13.4211	7.9633	0.0730	5.2934	0.0292	5.3226	1.4339	0.0280	1.4619			6,788.8577	0.1681	0.0000	6,793.0613
Maximum	2.6477	21.7450	18.6486	0.0936	5.5922	0.1808	5.7302	1.5148	0.1703	1.6735			8,676.8587	0.4286	0.0000	8,687.5731

2.1 Overall Construction

Mitigated Construction

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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
Year	tons/yr										MT/yr					
2021	2.1683	17.5428	15.3213	0.0724	4.2048	0.1580	4.3628	1.1390	0.1488	1.2878			6,708.5128	0.3437	0.0000	6,717.1061
2022	2.6477	21.7450	18.6485	0.0936	5.5494	0.1808	5.7302	1.5032	0.1703	1.6735			8,676.8584	0.4286	0.0000	8,687.5728
2023	2.3367	17.3160	16.9126	0.0909	5.5495	0.1325	5.6820	1.5032	0.1244	1.6276			8,428.0049	0.3372	0.0000	8,436.4358
2024	2.2120	17.0836	15.9351	0.0896	5.5921	0.1213	5.7134	1.5148	0.1138	1.6286			8,308.7063	0.3289	0.0000	8,316.9276
2025	2.0796	16.6642	14.8858	0.0874	5.5708	0.1089	5.6797	1.5090	0.1021	1.6111			8,113.5875	0.3180	0.0000	8,121.5379
2026	1.9845	16.4511	14.1462	0.0858	5.5708	0.1081	5.6789	1.5090	0.1014	1.6104			7,967.4045	0.3099	0.0000	7,975.1525
2027	1.8930	16.2463	13.4077	0.0844	5.5708	0.1066	5.6775	1.5090	0.1000	1.6091			7,837.5490	0.3019	0.0000	7,845.0954
2028	1.7943	16.0211	12.7201	0.0828	5.5495	0.1045	5.6540	1.5032	0.0980	1.6013			7,695.1108	0.2932	0.0000	7,702.4406
2029	1.7059	15.9239	12.1665	0.0820	5.5708	0.1032	5.6740	1.5090	0.0969	1.6059			7,624.7332	0.2873	0.0000	7,631.9155
2030	1.6045	15.1906	11.6372	0.0816	5.5708	0.0522	5.6230	1.5090	0.0500	1.5590			7,578.1985	0.2236	0.0000	7,583.7882
2031	1.5075	15.0618	11.1303	0.0808	5.5708	0.0507	5.6215	1.5090	0.0487	1.5577			7,502.9624	0.2176	0.0000	7,508.4014
2032	1.4290	15.0059	10.7400	0.0804	5.5922	0.0496	5.6417	1.5148	0.0476	1.5624			7,468.2186	0.2132	0.0000	7,473.5496
2033	1.3458	14.7918	10.2880	0.0792	5.5495	0.0480	5.5975	1.5033	0.0461	1.5494			7,357.5698	0.2070	0.0000	7,362.7456
2034	1.2850	14.7054	9.9464	0.0787	5.5495	0.0468	5.5963	1.5033	0.0451	1.5483			7,312.2439	0.2031	0.0000	7,317.3204
2035	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.0015	0.1994	0.0000	7,306.9853
2036	1.2295	14.6430	9.7243	0.0788	5.5922	0.0386	5.6308	1.5148	0.0369	1.5517			7,329.9785	0.2001	0.0000	7,334.9814
2037	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.0015	0.1994	0.0000	7,306.9853
2038	1.2248	14.5871	9.6872	0.0785	5.5708	0.0384	5.6093	1.5090	0.0368	1.5458			7,302.0015	0.1994	0.0000	7,306.9853

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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
Year	tons/yr										MT/yr					
2039	1.2201	14.5312	9.6500	0.0782	5.5495	0.0383	5.5878	1.5033	0.0366	1.5399			7,274.0245	0.1986	0.0000	7,278.9892
2040	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2303	0.1876	0.0000	7,202.9208
2041	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2303	0.1876	0.0000	7,202.9208
2042	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2303	0.1876	0.0000	7,202.9208
2043	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2303	0.1876	0.0000	7,202.9208
2044	1.0346	14.3153	8.7915	0.0774	5.5709	0.0328	5.6036	1.5090	0.0314	1.5404			7,198.2303	0.1876	0.0000	7,202.9208
2045	0.9591	14.1455	8.4294	0.0766	5.5495	0.0311	5.5806	1.5033	0.0298	1.5331			7,125.3630	0.1810	0.0000	7,129.8883
2046	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7682	0.1817	0.0000	7,157.3110
2047	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7682	0.1817	0.0000	7,157.3110
2048	0.9665	14.2543	8.4942	0.0772	5.5922	0.0314	5.6236	1.5148	0.0301	1.5449			7,180.1735	0.1824	0.0000	7,184.7336
2049	0.9628	14.1999	8.4618	0.0769	5.5709	0.0312	5.6021	1.5090	0.0300	1.5390			7,152.7682	0.1817	0.0000	7,157.3110
2050	0.8936	13.4211	7.9633	0.0730	5.2934	0.0292	5.3226	1.4339	0.0280	1.4619			6,788.8573	0.1681	0.0000	6,793.0609
Maximum	2.6477	21.7450	18.6485	0.0936	5.5922	0.1808	5.7302	1.5148	0.1703	1.6735			8,676.8584	0.4286	0.0000	8,687.5728

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	6.4615	6.4615
2	7-1-2021	9-30-2021	6.5325	6.5325

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3	10-1-2021	12-31-2021	6.6423	6.6423
4	1-1-2022	3-31-2022	6.0892	6.0892
5	4-1-2022	6-30-2022	6.0630	6.0630
6	7-1-2022	9-30-2022	6.1296	6.1296
7	10-1-2022	12-31-2022	6.2245	6.2245
8	1-1-2023	3-31-2023	4.9132	4.9132
9	4-1-2023	6-30-2023	4.8994	4.8994
10	7-1-2023	9-30-2023	4.9533	4.9533
11	10-1-2023	12-31-2023	5.0224	5.0224
12	1-1-2024	3-31-2024	4.8368	4.8368
13	4-1-2024	6-30-2024	4.7736	4.7736
14	7-1-2024	9-30-2024	4.8261	4.8261
15	10-1-2024	12-31-2024	4.8900	4.8900
16	1-1-2025	3-31-2025	4.6618	4.6618
17	4-1-2025	6-30-2025	4.6549	4.6549
18	7-1-2025	9-30-2025	4.7061	4.7061
19	10-1-2025	12-31-2025	4.7654	4.7654
20	1-1-2026	3-31-2026	4.5825	4.5825
21	4-1-2026	6-30-2026	4.5784	4.5784
22	7-1-2026	9-30-2026	4.6288	4.6288
23	10-1-2026	12-31-2026	4.6843	4.6843
24	1-1-2027	3-31-2027	4.5062	4.5062
25	4-1-2027	6-30-2027	4.5050	4.5050
26	7-1-2027	9-30-2027	4.5545	4.5545
27	10-1-2027	12-31-2027	4.6063	4.6063
28	1-1-2028	3-31-2028	4.4893	4.4893
29	4-1-2028	6-30-2028	4.4413	4.4413

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30	7-1-2028	9-30-2028	4.4901	4.4901
31	10-1-2028	12-31-2028	4.5387	4.5387
32	1-1-2029	3-31-2029	4.3741	4.3741
33	4-1-2029	6-30-2029	4.3778	4.3778
34	7-1-2029	9-30-2029	4.4259	4.4259
35	10-1-2029	12-31-2029	4.4713	4.4713
36	1-1-2030	3-31-2030	4.1652	4.1652
37	4-1-2030	6-30-2030	4.1696	4.1696
38	7-1-2030	9-30-2030	4.2154	4.2154
39	10-1-2030	12-31-2030	4.2578	4.2578
40	1-1-2031	3-31-2031	4.1062	4.1062
41	4-1-2031	6-30-2031	4.1128	4.1128
42	7-1-2031	9-30-2031	4.1580	4.1580
43	10-1-2031	12-31-2031	4.1974	4.1974
44	1-1-2032	3-31-2032	4.0997	4.0997
45	4-1-2032	6-30-2032	4.0633	4.0633
46	7-1-2032	9-30-2032	4.1079	4.1079
47	10-1-2032	12-31-2032	4.1448	4.1448
48	1-1-2033	3-31-2033	4.0096	4.0096
49	4-1-2033	6-30-2033	4.0199	4.0199
50	7-1-2033	9-30-2033	4.0640	4.0640
51	10-1-2033	12-31-2033	4.0987	4.0987
52	1-1-2034	3-31-2034	3.9710	3.9710
53	4-1-2034	6-30-2034	3.9824	3.9824
54	7-1-2034	9-30-2034	4.0262	4.0262
55	10-1-2034	12-31-2034	4.0593	4.0593
56	1-1-2035	3-31-2035	3.9101	3.9101

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57	4-1-2035	6-30-2035	3.9220	3.9220
58	7-1-2035	9-30-2035	3.9651	3.9651
59	10-1-2035	12-31-2035	3.9970	3.9970
60	1-1-2036	3-31-2036	3.9536	3.9536
61	4-1-2036	6-30-2036	3.9220	3.9220
62	7-1-2036	9-30-2036	3.9651	3.9651
63	10-1-2036	12-31-2036	3.9970	3.9970
64	1-1-2037	3-31-2037	3.9101	3.9101
65	4-1-2037	6-30-2037	3.9220	3.9220
66	7-1-2037	9-30-2037	3.9651	3.9651
67	10-1-2037	12-31-2037	3.9970	3.9970
68	1-1-2038	3-31-2038	3.9101	3.9101
69	4-1-2038	6-30-2038	3.9220	3.9220
70	7-1-2038	9-30-2038	3.9651	3.9651
71	10-1-2038	12-31-2038	3.9970	3.9970
72	1-1-2039	3-31-2039	3.9101	3.9101
73	4-1-2039	6-30-2039	3.9220	3.9220
74	7-1-2039	9-30-2039	3.9651	3.9651
75	10-1-2039	12-31-2039	3.9970	3.9970
76	1-1-2040	3-31-2040	3.8322	3.8322
77	4-1-2040	6-30-2040	3.8042	3.8042
78	7-1-2040	9-30-2040	3.8460	3.8460
79	10-1-2040	12-31-2040	3.8743	3.8743
80	1-1-2041	3-31-2041	3.7901	3.7901
81	4-1-2041	6-30-2041	3.8042	3.8042
82	7-1-2041	9-30-2041	3.8460	3.8460
83	10-1-2041	12-31-2041	3.8743	3.8743

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84	1-1-2042	3-31-2042	3.7901	3.7901
85	4-1-2042	6-30-2042	3.8042	3.8042
86	7-1-2042	9-30-2042	3.8460	3.8460
87	10-1-2042	12-31-2042	3.8743	3.8743
88	1-1-2043	3-31-2043	3.7901	3.7901
89	4-1-2043	6-30-2043	3.8042	3.8042
90	7-1-2043	9-30-2043	3.8460	3.8460
91	10-1-2043	12-31-2043	3.8743	3.8743
92	1-1-2044	3-31-2044	3.8322	3.8322
93	4-1-2044	6-30-2044	3.8042	3.8042
94	7-1-2044	9-30-2044	3.8460	3.8460
95	10-1-2044	12-31-2044	3.8743	3.8743
96	1-1-2045	3-31-2045	3.7422	3.7422
97	4-1-2045	6-30-2045	3.7568	3.7568
98	7-1-2045	9-30-2045	3.7981	3.7981
99	10-1-2045	12-31-2045	3.8253	3.8253
100	1-1-2046	3-31-2046	3.7422	3.7422
101	4-1-2046	6-30-2046	3.7568	3.7568
102	7-1-2046	9-30-2046	3.7981	3.7981
103	10-1-2046	12-31-2046	3.8253	3.8253
104	1-1-2047	3-31-2047	3.7422	3.7422
105	4-1-2047	6-30-2047	3.7568	3.7568
106	7-1-2047	9-30-2047	3.7981	3.7981
107	10-1-2047	12-31-2047	3.8253	3.8253
108	1-1-2048	3-31-2048	3.7837	3.7837
109	4-1-2048	6-30-2048	3.7568	3.7568
110	7-1-2048	9-30-2048	3.7981	3.7981

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111	10-1-2048	12-31-2048	3.8253	3.8253
112	1-1-2049	3-31-2049	3.7422	3.7422
113	4-1-2049	6-30-2049	3.7568	3.7568
114	7-1-2049	9-30-2049	3.7981	3.7981
115	10-1-2049	12-31-2049	3.8253	3.8253
116	1-1-2050	3-31-2050	3.7178	3.7178
117	4-1-2050	6-30-2050	3.7322	3.7322
118	7-1-2050	9-30-2050	3.7732	3.7732
		Highest	6.6423	6.6423

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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.7141	5.5032	0.0208	2,472.4963
Energy	0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			3,925.8339	0.3256	0.0939	3,961.9454
Mobile	10.4348	103.4950	113.5027	0.7275	73.8127	0.2821	74.0948	19.7553	0.2631	20.0184			73,158.2949	2.3681	0.0000	73,217.4968
Waste						0.0000	0.0000		0.0000	0.0000			2,498.0494	147.6305	0.0000	6,188.8117
Water						0.0000	0.0000		0.0000	0.0000			250.8576	6.2244	0.1518	451.7165
Total	37.6172	107.1596	184.1850	0.9191	73.8127	9.2955	83.1082	19.7553	9.2765	29.0318			82,161.7499	162.0518	0.2665	86,292.4667

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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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.7141	5.5032	0.0208	2,472.4963
Energy	0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			3,925.8339	0.3256	0.0939	3,961.9454
Mobile	10.4348	103.4950	113.5027	0.7275	73.8127	0.2821	74.0948	19.7553	0.2631	20.0184			73,158.2949	2.3681	0.0000	73,217.4968
Waste						0.0000	0.0000		0.0000	0.0000			2,498.0494	147.6305	0.0000	6,188.8117
Water						0.0000	0.0000		0.0000	0.0000			250.8576	6.2244	0.1518	451.7165
Total	37.6172	107.1596	184.1850	0.9191	73.8127	9.2955	83.1082	19.7553	9.2765	29.0318			82,161.7499	162.0518	0.2665	86,292.4667

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/1/2021	12/14/2050	5	7750	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 40

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
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

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
Building Construction	9	4,198.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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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	10.4348	103.4950	113.5027	0.7275	73.8127	0.2821	74.0948	19.7553	0.2631	20.0184			73,158.29 49	2.3681	0.0000	73,217.49 68
Unmitigated	10.4348	103.4950	113.5027	0.7275	73.8127	0.2821	74.0948	19.7553	0.2631	20.0184			73,158.29 49	2.3681	0.0000	73,217.49 68

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,449.80	2,627.72	2227.69	9,150,647	9,150,647
Apartments Mid Rise	1,192.80	907.38	832.12	3,189,047	3,189,047
Apartments Mid Rise	2,814.00	2,140.65	1963.10	7,523,457	7,523,457
City Park	192.78	1,160.25	853.74	908,194	908,194
Condo/Townhouse	4,245.60	2,766.96	2361.92	10,911,058	10,911,058
Elementary School	8,901.90	0.00	0.00	14,020,105	14,020,105
General Office Building	7,222.60	1,325.94	565.95	12,974,613	12,974,613
High School	6,876.60	2,058.27	843.09	13,945,210	13,945,210
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	64,562.00	15,460.90	23106.40	93,301,425	93,301,425
Single Family Housing	12,001.36	8,046.92	6999.44	31,070,043	31,070,043
Total	111,459.44	36,494.99	39,753.45	196,993,800	196,993,800

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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

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			2,082.0594	0.2903	0.0601	2,107.2143
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			2,082.0594	0.2903	0.0601	2,107.2143
NaturalGas Mitigated	0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			1,843.7745	0.0353	0.0338	1,854.7311
NaturalGas Unmitigated	0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			1,843.7745	0.0353	0.0338	1,854.7311

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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 Low Rise	2.60955e+006	0.0141	0.1202	0.0512	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003			139.2557	2.6700e-003	2.5500e-003	140.0832
Apartments Mid Rise	2.01191e+006	0.0109	0.0927	0.0395	5.9000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003			107.3632	2.0600e-003	1.9700e-003	108.0012
Apartments Mid Rise	852809	4.6000e-003	0.0393	0.0167	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003			45.5092	8.7000e-004	8.3000e-004	45.7796
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
Condo/Townhouse	5.4085e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202			288.6184	5.5300e-003	5.2900e-003	290.3335
Elementary School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
General Office Building	6.28474e+006	0.0339	0.3081	0.2588	1.8500e-003		0.0234	0.0234		0.0234	0.0234			335.3777	6.4300e-003	6.1500e-003	337.3706
High School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
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
Recreational Swimming Pool	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
Single Family Housing	1.10156e+007	0.0594	0.5076	0.2160	3.2400e-003		0.0410	0.0410		0.0410	0.0410			587.8339	0.0113	0.0108	591.3271
Total		0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			1,843.7745	0.0354	0.0338	1,854.7311

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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 Low Rise	2.60955e+006	0.0141	0.1202	0.0512	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003			139.2557	2.6700e-003	2.5500e-003	140.0832
Apartments Mid Rise	852809	4.6000e-003	0.0393	0.0167	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003			45.5092	8.7000e-004	8.3000e-004	45.7796
Apartments Mid Rise	2.01191e+006	0.0109	0.0927	0.0395	5.9000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003			107.3632	2.0600e-003	1.9700e-003	108.0012
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
Condo/Townhouse	5.4085e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202			288.6184	5.5300e-003	5.2900e-003	290.3335
Elementary School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
General Office Building	6.28474e+006	0.0339	0.3081	0.2588	1.8500e-003		0.0234	0.0234		0.0234	0.0234			335.3777	6.4300e-003	6.1500e-003	337.3706
High School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
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
Recreational Swimming Pool	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
Single Family Housing	1.10156e+007	0.0594	0.5076	0.2160	3.2400e-003		0.0410	0.0410		0.0410	0.0410			587.8339	0.0113	0.0108	591.3271
Total		0.1863	1.6293	0.9504	0.0102		0.1287	0.1287		0.1287	0.1287			1,843.7745	0.0354	0.0338	1,854.7311

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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 Low Rise	1.54997e+006	146.2350	0.0204	4.2200e-003	148.0017
Apartments Mid Rise	1.34407e+006	126.8090	0.0177	3.6600e-003	128.3410
Apartments Mid Rise	569724	53.7519	7.4900e-003	1.5500e-003	54.4013
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.42802e+006	229.0773	0.0319	6.6100e-003	231.8450
Elementary School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
General Office Building	4.84561e+006	457.1698	0.0637	0.0132	462.6932
High School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.56414e+006	619.3086	0.0864	0.0179	626.7909
Total		2,082.0594	0.2903	0.0601	2,107.2143

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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 Low Rise	1.54997e+006	146.2350	0.0204	4.2200e-003	148.0017
Apartments Mid Rise	1.34407e+006	126.8090	0.0177	3.6600e-003	128.3410
Apartments Mid Rise	569724	53.7519	7.4900e-003	1.5500e-003	54.4013
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.42802e+006	229.0773	0.0319	6.6100e-003	231.8450
Elementary School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
General Office Building	4.84561e+006	457.1698	0.0637	0.0132	462.6932
High School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.56414e+006	619.3086	0.0864	0.0179	626.7909
Total		2,082.0594	0.2903	0.0601	2,107.2143

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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3
Unmitigated	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3

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	3.6890					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	16.8317					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	5.9987	1.8521	53.8526	0.1806		8.7963	8.7963		8.7963	8.7963			2,302.651 5	5.4783	0.0208	2,445.811 2
Landscaping	0.4768	0.1832	15.8794	8.4000e-004		0.0884	0.0884		0.0884	0.0884			26.0626	0.0249	0.0000	26.6851
Total	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	3.6890					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	16.8317					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	5.9987	1.8521	53.8526	0.1806		8.7963	8.7963		8.7963	8.7963			2,302.6515	5.4783	0.0208	2,445.8112
Landscaping	0.4768	0.1832	15.8794	8.4000e-004		0.0884	0.0884		0.0884	0.0884			26.0626	0.0249	0.0000	26.6851
Total	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.7141	5.5032	0.0208	2,472.4963

7.0 Water Detail

7.1 Mitigation Measures Water

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	250.8576	6.2244	0.1518	451.7165
Unmitigated	250.8576	6.2244	0.1518	451.7165

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	17.1766 / 15.0747	19.1961	0.5616	0.0136	37.2929
Apartments Mid Rise	22.3249 / 19.5929	24.9497	0.7300	0.0177	48.4706
City Park	0 / 60.7655	20.0657	2.8000e-003	5.8000e-004	20.3081
Condo/Townhouse	22.8397 / 20.0448	25.5250	0.7468	0.0181	49.5884
Elementary School	9.81074 / 35.1194	19.7180	0.3220	8.0300e-003	30.1601
General Office Building	68.8157 / 58.7152	76.3520	2.2500	0.0545	148.8479
High School	11.2344 / 40.2156	22.5792	0.3687	9.1900e-003	34.5366
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.0037 / 33.3532	42.4720	1.2426	0.0301	82.5118
Total		250.8576	6.2244	0.1518	451.7165

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	17.1766 / 15.0747	19.1961	0.5616	0.0136	37.2929
Apartments Mid Rise	22.3249 / 19.5929	24.9497	0.7300	0.0177	48.4706
City Park	0 / 60.7655	20.0657	2.8000e-003	5.8000e-004	20.3081
Condo/Townhouse	22.8397 / 20.0448	25.5250	0.7468	0.0181	49.5884
Elementary School	9.81074 / 35.1194	19.7180	0.3220	8.0300e-003	30.1601
General Office Building	68.8157 / 58.7152	76.3520	2.2500	0.0545	148.8479
High School	11.2344 / 40.2156	22.5792	0.3687	9.1900e-003	34.5366
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.0037 / 33.3532	42.4720	1.2426	0.0301	82.5118
Total		250.8576	6.2244	0.1518	451.7165

8.0 Waste Detail**8.1 Mitigation Measures Waste**

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,498.049 4	147.6305	0.0000	6,188.8117
Unmitigated	2,498.049 4	147.6305	0.0000	6,188.811 7

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	635.27	128.9541	7.6210	0.0000	319.4783
Apartments Mid Rise	825.67	167.6036	9.9051	0.0000	415.2307
City Park	16.52	3.3534	0.1982	0.0000	8.3079
Condo/Townhouse	844.71	171.4685	10.1335	0.0000	424.8059
Elementary School	2304.07	467.7054	27.6406	0.0000	1,158.7203
General Office Building	1886.27	382.8958	22.6285	0.0000	948.6081
High School	2304.07	467.7054	27.6406	0.0000	1,158.7203
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3489.63	708.3634	41.8631	0.0000	1,754.9402
Total		2,498.0494	147.6305	0.0000	6,188.8117

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	635.27	128.9541	7.6210	0.0000	319.4783
Apartments Mid Rise	825.67	167.6036	9.9051	0.0000	415.2307
City Park	16.52	3.3534	0.1982	0.0000	8.3079
Condo/Townhouse	844.71	171.4685	10.1335	0.0000	424.8059
Elementary School	2304.07	467.7054	27.6406	0.0000	1,158.7203
General Office Building	1886.27	382.8958	22.6285	0.0000	948.6081
High School	2304.07	467.7054	27.6406	0.0000	1,158.7203
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3489.63	708.3634	41.8631	0.0000	1,754.9402
Total		2,498.0494	147.6305	0.0000	6,188.8117

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

River Islands Phase 2 Operational Emissions (With Valley Link)
San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	539.00	1000sqft	12.37	539,000.00	0
Elementary School	471.00	1000sqft	10.81	471,000.00	0
High School	471.00	1000sqft	10.81	471,000.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	51.00	Acre	51.00	2,221,560.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	367.00	Dwelling Unit	34.44	367,000.00	1164
Apartments Mid Rise	142.00	Dwelling Unit	7.28	142,400.00	450
Apartments Mid Rise	335.00	Dwelling Unit	24.18	1,461,960.00	1063
Condo/Townhouse	488.00	Dwelling Unit	30.96	487,800.00	1548
Single Family Housing	812.00	Dwelling Unit	160.40	335,400.00	2576

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 980,000,000 (196,000,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - Recreational swimming pool is a surrogate land use for lakes. Indoor water use values adjusted to be consistent with public utilities chapter

Solid Waste - Recreational swimming pool is a surrogate land use for lakes and would not generate solid waste. Values adjusted to reflect Utilities chapter

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	381.61	179.35
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.20
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9,411.72	4,423.50
tblEnergyUse	T24NG	7,061.10	3,318.70
tblEnergyUse	T24NG	17,864.25	8,396.00

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.19
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	23,147.69	10,879.00
tblLandUse	LandUseSquareFeet	142,000.00	142,400.00
tblLandUse	LandUseSquareFeet	335,000.00	1,461,960.00
tblLandUse	LandUseSquareFeet	488,000.00	487,800.00
tblLandUse	LandUseSquareFeet	1,461,600.00	335,400.00
tblLandUse	LotAcreage	22.94	34.44
tblLandUse	LotAcreage	3.74	7.28
tblLandUse	LotAcreage	8.82	24.18
tblLandUse	LotAcreage	30.50	30.96
tblLandUse	LotAcreage	263.64	160.40
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblSolidWaste	SolidWasteGenerationRate	168.82	635.27
tblSolidWaste	SolidWasteGenerationRate	219.42	825.67
tblSolidWaste	SolidWasteGenerationRate	4.39	16.52
tblSolidWaste	SolidWasteGenerationRate	224.48	844.71
tblSolidWaste	SolidWasteGenerationRate	612.30	2,304.07
tblSolidWaste	SolidWasteGenerationRate	501.27	1,886.27
tblSolidWaste	SolidWasteGenerationRate	612.30	2,304.07
tblSolidWaste	SolidWasteGenerationRate	9,684.30	0.00
tblSolidWaste	SolidWasteGenerationRate	927.36	3,489.63
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.9990e-003	3.0410e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4260e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	3.4120e-003	3.4600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2430e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDA	8.8990e-003	9.0240e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.8480e-003	2.8880e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2010e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT1	4.3640e-003	4.4260e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4560e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45
tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.9590e-003	5.0290e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.1450e-003	4.2030e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.0460e-003	6.1310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59
tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.7190e-003	4.7860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	5.3620e-003	5.4380e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.8160e-003	7.9260e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.4830e-003	4.5460e-003

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6250e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.6280e-003	6.7210e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7740e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.3010e-003	6.3900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	WD_TR	6.59	9.40

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

tblVehicleTrips	WD_TR	6.65	8.40
tblVehicleTrips	WD_TR	1.89	3.78
tblVehicleTrips	WD_TR	5.81	8.70
tblVehicleTrips	WD_TR	15.43	18.90
tblVehicleTrips	WD_TR	11.03	13.40
tblVehicleTrips	WD_TR	12.89	14.60
tblVehicleTrips	WD_TR	33.82	38.00
tblVehicleTrips	WD_TR	9.52	14.78
tblWater	IndoorWaterUseRate	23,911,527.40	17,176,565.00
tblWater	IndoorWaterUseRate	31,078,470.22	22,324,854.00
tblWater	IndoorWaterUseRate	31,795,164.50	22,839,683.00
tblWater	IndoorWaterUseRate	13,657,548.01	9,810,739.00
tblWater	IndoorWaterUseRate	95,798,490.17	68,815,719.00
tblWater	IndoorWaterUseRate	15,639,385.44	11,234,369.00
tblWater	IndoorWaterUseRate	100,484,201.72	0.00
tblWater	IndoorWaterUseRate	52,905,068.80	38,003,734.00
tblWater	OutdoorWaterUseRate	61,587,091.38	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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
Year	lb/day										lb/day					
2021	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.47 52	3.7986	0.0000	78,462.44 05
2022	21.8168	164.7358	154.4053	0.7517	43.9709	1.3844	45.3553	11.8782	1.3039	13.1821			76,765.31 94	3.5830	0.0000	76,854.89 41
2023	19.3293	131.4229	140.6444	0.7297	43.9710	1.0183	44.9893	11.8782	0.9557	12.8339			74,539.25 36	2.8379	0.0000	74,610.20 17
2024	18.1333	128.7477	131.4972	0.7130	43.9710	0.9245	44.8955	11.8782	0.8672	12.7455			72,869.08 85	2.7401	0.0000	72,937.58 98
2025	17.0954	126.1336	123.2214	0.6982	43.9711	0.8333	44.8044	11.8783	0.7815	12.6598			71,382.18 64	2.6550	0.0000	71,448.56 01
2026	16.2852	124.5898	117.0916	0.6849	43.9712	0.8273	44.7985	11.8783	0.7759	12.6542			70,052.02 37	2.5837	0.0000	70,116.616 7
2027	15.5068	123.1078	110.8865	0.6731	43.9712	0.8163	44.7875	11.8783	0.7657	12.6440			68,873.05 87	2.5129	0.0000	68,935.881 1
2028	14.7319	121.9221	105.5119	0.6629	43.9712	0.8029	44.7741	11.8783	0.7533	12.6316			67,847.85 85	2.4473	0.0000	67,909.04 01
2029	13.9295	120.7717	100.4435	0.6538	43.9713	0.7901	44.7614	11.8783	0.7415	12.6198			66,940.47 24	2.3860	0.0000	67,000.12 21
2030	13.0797	115.2145	95.9799	0.6499	43.9713	0.3989	44.3702	11.8783	0.3825	12.2609			66,493.10 49	1.8463	0.0000	66,539.26 15
2031	12.2625	114.2861	91.7122	0.6431	43.9713	0.3879	44.3592	11.8783	0.3723	12.2506			65,810.83 58	1.7939	0.0000	65,855.68 32
2032	11.5538	113.4703	88.0670	0.6374	43.9713	0.3777	44.3490	11.8783	0.3629	12.2412			65,236.90 32	1.7493	0.0000	65,280.63 49
2033	10.9368	112.7511	84.9226	0.6324	43.9714	0.3684	44.3397	11.8784	0.3543	12.2326			64,748.35 92	1.7094	0.0000	64,791.09 51
2034	10.4083	112.1268	82.0128	0.6283	43.9714	0.3596	44.3310	11.8784	0.3462	12.2246			64,335.39 37	1.6747	0.0000	64,377.26 21
2035	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2036	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2037	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2038	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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
Year	lb/day										lb/day					
2039	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2040	8.2038	108.8491	71.8850	0.6152	43.9715	0.2507	44.2221	11.8784	0.2399	12.1183			63,037.95 11	1.5350	0.0000	63,076.32 59
2041	8.2038	108.8491	71.8850	0.6152	43.9715	0.2507	44.2221	11.8784	0.2399	12.1183			63,037.951 1	1.5350	0.0000	63,076.32 59
2042	8.2038	108.8491	71.8850	0.6152	43.9715	0.2507	44.2221	11.8784	0.2399	12.1183			63,037.951 1	1.5350	0.0000	63,076.32 59
2043	8.2038	108.8491	71.8850	0.6152	43.9715	0.2507	44.2221	11.8784	0.2399	12.1183			63,037.951 1	1.5350	0.0000	63,076.32 59
2044	8.2038	108.8491	71.8850	0.6152	43.9715	0.2507	44.2221	11.8784	0.2399	12.1183			63,037.951 1	1.5350	0.0000	63,076.32 59
2045	7.5918	108.0021	69.0805	0.6110	43.9716	0.2390	44.2106	11.8784	0.2292	12.1076			62,625.18 38	1.4856	0.0000	62,662.32 43
2046	7.5918	108.0021	69.0805	0.6110	43.9716	0.2390	44.2106	11.8784	0.2292	12.1076			62,625.18 38	1.4856	0.0000	62,662.32 43
2047	7.5918	108.0021	69.0805	0.6110	43.9716	0.2390	44.2106	11.8784	0.2292	12.1076			62,625.18 38	1.4856	0.0000	62,662.32 43
2048	7.5918	108.0021	69.0805	0.6110	43.9716	0.2390	44.2106	11.8784	0.2292	12.1076			62,625.18 38	1.4856	0.0000	62,662.32 43
2049	7.5918	108.0021	69.0805	0.6110	43.9716	0.2390	44.2106	11.8784	0.2292	12.1076			62,625.18 38	1.4856	0.0000	62,662.32 43
2050	7.4029	107.4327	68.3713	0.6103	43.9716	0.2350	44.2065	11.8784	0.2255	12.1039			62,548.63 05	1.4470	0.0000	62,584.80 50
Maximum	23.5886	175.2277	167.3423	0.7677	43.9716	1.5975	45.5683	11.8784	1.5045	13.3827			78,367.47 52	3.7986	0.0000	78,462.44 05

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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
Year	lb/day										lb/day					
2021	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.47 52	3.7986	0.0000	78,462.44 05
2022	21.8168	164.7358	154.4053	0.7517	43.9709	1.3844	45.3553	11.8782	1.3039	13.1821			76,765.31 94	3.5830	0.0000	76,854.89 41
2023	19.3293	131.4229	140.6444	0.7297	43.9710	1.0183	44.9893	11.8782	0.9557	12.8339			74,539.25 36	2.8379	0.0000	74,610.20 17
2024	18.1333	128.7477	131.4972	0.7130	43.9710	0.9245	44.8955	11.8782	0.8672	12.7455			72,869.08 85	2.7401	0.0000	72,937.58 98
2025	17.0954	126.1336	123.2214	0.6982	43.9711	0.8333	44.8044	11.8783	0.7815	12.6598			71,382.18 64	2.6550	0.0000	71,448.56 01
2026	16.2852	124.5898	117.0916	0.6849	43.9712	0.8273	44.7985	11.8783	0.7759	12.6542			70,052.02 37	2.5837	0.0000	70,116.616 7
2027	15.5068	123.1078	110.8865	0.6731	43.9712	0.8163	44.7875	11.8783	0.7657	12.6440			68,873.05 87	2.5129	0.0000	68,935.881 1
2028	14.7319	121.9221	105.5119	0.6629	43.9712	0.8029	44.7741	11.8783	0.7533	12.6316			67,847.85 85	2.4473	0.0000	67,909.04 01
2029	13.9295	120.7717	100.4435	0.6538	43.9713	0.7901	44.7614	11.8783	0.7415	12.6198			66,940.47 24	2.3860	0.0000	67,000.12 21
2030	13.0797	115.2145	95.9799	0.6499	43.9713	0.3989	44.3702	11.8783	0.3825	12.2609			66,493.10 49	1.8463	0.0000	66,539.26 15
2031	12.2625	114.2861	91.7122	0.6431	43.9713	0.3879	44.3592	11.8783	0.3723	12.2506			65,810.83 58	1.7939	0.0000	65,855.68 32
2032	11.5538	113.4703	88.0670	0.6374	43.9713	0.3777	44.3490	11.8783	0.3629	12.2412			65,236.90 32	1.7493	0.0000	65,280.63 49
2033	10.9368	112.7511	84.9226	0.6324	43.9714	0.3684	44.3397	11.8784	0.3543	12.2326			64,748.35 92	1.7094	0.0000	64,791.09 51
2034	10.4083	112.1268	82.0128	0.6283	43.9714	0.3596	44.3310	11.8784	0.3462	12.2246			64,335.39 37	1.6747	0.0000	64,377.26 21
2035	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2036	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2037	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70
2038	9.8554	110.8203	79.4894	0.6248	43.9714	0.2940	44.2654	11.8784	0.2812	12.1596			63,986.95 65	1.6360	0.0000	64,027.85 70

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Energy	1.0209	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907
Mobile	85.3352	700.8958	829.8359	5.2146	515.1430	1.9110	517.0540	137.5318	1.7821	139.3139			578,793.1976	17.3461		579,226.8495
Total	350.4060	757.0328	2,324.9595	9.6845	515.1430	218.1424	733.2854	137.5318	218.0134	355.5452			652,157.1860	165.1509	0.7638	656,513.5807

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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Energy	1.0209	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907
Mobile	85.3352	700.8958	829.8359	5.2146	515.1430	1.9110	517.0540	137.5318	1.7821	139.3139			578,793.1976	17.3461		579,226.8495
Total	350.4060	757.0328	2,324.9595	9.6845	515.1430	218.1424	733.2854	137.5318	218.0134	355.5452			652,157.1860	165.1509	0.7638	656,513.5807

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	Building Construction	Building Construction	4/1/2021	12/14/2050	5	7750	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 40

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
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

Trips and VMT

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	4,198.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	85.3352	700.8958	829.8359	5.2146	515.1430	1.9110	517.0540	137.5318	1.7821	139.3139			578,793.1976	17.3461		579,226.8495
Unmitigated	85.3352	700.8958	829.8359	5.2146	515.1430	1.9110	517.0540	137.5318	1.7821	139.3139			578,793.1976	17.3461		579,226.8495

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,449.80	2,627.72	2227.69	9,150,647	9,150,647
Apartments Mid Rise	1,192.80	907.38	832.12	3,189,047	3,189,047
Apartments Mid Rise	2,814.00	2,140.65	1963.10	7,523,457	7,523,457
City Park	192.78	1,160.25	853.74	908,194	908,194
Condo/Townhouse	4,245.60	2,766.96	2361.92	10,911,058	10,911,058
Elementary School	8,901.90	0.00	0.00	14,020,105	14,020,105
General Office Building	7,222.60	1,325.94	565.95	12,974,613	12,974,613
High School	6,876.60	2,058.27	843.09	13,945,210	13,945,210
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	64,562.00	15,460.90	23106.40	93,301,425	93,301,425
Single Family Housing	12,001.36	8,046.92	6999.44	31,070,043	31,070,043
Total	111,459.44	36,494.99	39,753.45	196,993,800	196,993,800

4.3 Trip Type Information

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin County, Summer

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	1.0209	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907
NaturalGas Unmitigated	1.0209	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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 Low Rise	7149.46	0.0771	0.6589	0.2804	4.2100e-003		0.0533	0.0533		0.0533	0.0533			841.1131	0.0161	0.0154	846.1115
Apartments Mid Rise	2336.46	0.0252	0.2153	0.0916	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.8781	5.2700e-003	5.0400e-003	276.5116
Apartments Mid Rise	5512.08	0.0594	0.5080	0.2162	3.2400e-003		0.0411	0.0411		0.0411	0.0411			648.4801	0.0124	0.0119	652.3337
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
Condo/Townhouse	14817.8	0.1598	1.3656	0.5811	8.7200e-003		0.1104	0.1104		0.1104	0.1104			1,743.2728	0.0334	0.0320	1,753.6322
Elementary School	8723.18	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
General Office Building	17218.5	0.1857	1.6881	1.4180	0.0101		0.1283	0.1283		0.1283	0.1283			2,025.7019	0.0388	0.0371	2,037.7396
High School	8723.18	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
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
Recreational Swimming Pool	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
Single Family Housing	30179.7	0.3255	2.7813	1.1835	0.0178		0.2249	0.2249		0.2249	0.2249			3,550.5534	0.0681	0.0651	3,571.6526
Total		1.0208	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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 Low Rise	7.14946	0.0771	0.6589	0.2804	4.2100e-003		0.0533	0.0533		0.0533	0.0533			841.1131	0.0161	0.0154	846.1115
Apartments Mid Rise	5.51208	0.0594	0.5080	0.2162	3.2400e-003		0.0411	0.0411		0.0411	0.0411			648.4801	0.0124	0.0119	652.3337
Apartments Mid Rise	2.33646	0.0252	0.2153	0.0916	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.8781	5.2700e-003	5.0400e-003	276.5116
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
Condo/Townhouse	14.8178	0.1598	1.3656	0.5811	8.7200e-003		0.1104	0.1104		0.1104	0.1104			1,743.2728	0.0334	0.0320	1,753.6322
Elementary School	8.72318	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
General Office Building	17.2185	0.1857	1.6881	1.4180	0.0101		0.1283	0.1283		0.1283	0.1283			2,025.7019	0.0388	0.0371	2,037.7396
High School	8.72318	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
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
Recreational Swimming Pool	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
Single Family Housing	30.1797	0.3255	2.7813	1.1835	0.0178		0.2249	0.2249		0.2249	0.2249			3,550.5534	0.0681	0.0651	3,571.6526
Total		1.0208	8.9275	5.2075	0.0557		0.7053	0.7053		0.7053	0.7053			11,136.5120	0.2135	0.2042	11,202.6907

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Unmitigated	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

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	20.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	92.2286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	146.3105	45.1738	1,313.4786	4.4049		214.5440	214.5440		214.5440	214.5440			61,908.2644	147.2864	0.5597	65,757.2035
Landscaping	5.2975	2.0357	176.4375	9.3700e-003		0.9821	0.9821		0.9821	0.9821			319.2120	0.3050		326.8370
Total	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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	20.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	92.2286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	146.3105	45.1738	1,313.4786	4.4049		214.5440	214.5440		214.5440	214.5440			61,908.2644	147.2864	0.5597	65,757.2035
Landscaping	5.2975	2.0357	176.4375	9.3700e-003		0.9821	0.9821		0.9821	0.9821			319.2120	0.3050		326.8370
Total	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

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

River Islands Phase 2 Operational Emissions (With Valley Link) - San Joaquin 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

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses)

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,089.00	1000sqft	25.00	1,089,000.00	0
Office Park	148.90	1000sqft	3.42	148,900.00	0
Elementary School	463.00	1000sqft	10.63	463,000.00	0
High School	463.00	1000sqft	10.63	463,000.00	0
Other Asphalt Surfaces	3,331.00	Acre	3,331.00	145,098,360.00	0
City Park	31.00	Acre	31.00	1,350,360.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	240.00	Dwelling Unit	14.08	613,325.00	761
Apartments Mid Rise	120.00	Dwelling Unit	6.98	304,049.00	381
Single Family Housing	983.00	Dwelling Unit	297.26	12,948,646.00	3118

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 881,650,000 (176,000,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - Pool serving as surrogate for lake, which would not be service by WWTP. CalEEMod indoor water use adjusted to account for SEIR wastewater information.

Solid Waste - Solid Waste Emissions estimated off-model.

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155,000.00	1.00
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.25
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.00	2.10
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.19

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	10.91	7.64
tblEnergyUse	T24NG	23,147.69	10,879.37
tblLandUse	LandUseSquareFeet	240,000.00	613,325.00
tblLandUse	LandUseSquareFeet	120,000.00	304,049.00
tblLandUse	LandUseSquareFeet	1,769,400.00	12,948,646.00
tblLandUse	LotAcreage	15.00	14.08
tblLandUse	LotAcreage	3.16	6.98
tblLandUse	LotAcreage	319.16	297.26
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.9990e-003	3.0410e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4260e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30

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tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	3.4120e-003	3.4600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2430e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.8990e-003	9.0240e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.8480e-003	2.8880e-003
tblVehicleEF	LDA	0.03	0.03

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tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2010e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.3640e-003	4.4260e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4560e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45
tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004

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tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.9590e-003	5.0290e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.1450e-003	4.2030e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.0460e-003	6.1310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59

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tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.7190e-003	4.7860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	5.3620e-003	5.4380e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	7.8160e-003	7.9260e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.4830e-003	4.5460e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6250e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003

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tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.6280e-003	6.7210e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7740e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50

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tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.3010e-003	6.3900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	ST_TR	22.75	7.00
tblVehicleTrips	ST_TR	4.37	1.79
tblVehicleTrips	WD_TR	6.59	6.70
tblVehicleTrips	WD_TR	6.65	6.70
tblVehicleTrips	WD_TR	1.89	5.40
tblVehicleTrips	WD_TR	15.43	16.00
tblVehicleTrips	WD_TR	11.03	13.90
tblVehicleTrips	WD_TR	12.89	14.90
tblVehicleTrips	WD_TR	11.42	14.20
tblVehicleTrips	WD_TR	33.82	33.90
tblVehicleTrips	WD_TR	9.52	10.20
tblWater	IndoorWaterUseRate	15,636,966.15	12,379,501.00
tblWater	IndoorWaterUseRate	7,818,483.07	6,189,777.00
tblWater	IndoorWaterUseRate	13,425,572.67	10,628,824.00

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tblWater	IndoorWaterUseRate	193,552,051.57	153,208,497.00
tblWater	IndoorWaterUseRate	15,373,748.32	12,171,162.00
tblWater	IndoorWaterUseRate	26,464,555.08	20,951,595.00
tblWater	IndoorWaterUseRate	64,046,407.19	50,704,268.57
tblWoodstoves	NumberCatalytic	14.08	34.44
tblWoodstoves	NumberCatalytic	6.98	31.46
tblWoodstoves	NumberCatalytic	297.26	160.40
tblWoodstoves	NumberNoncatalytic	14.08	34.44
tblWoodstoves	NumberNoncatalytic	6.98	31.46
tblWoodstoves	NumberNoncatalytic	297.26	160.40

2.0 Emissions Summary

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-14-2020	9-30-2020	1.2337	1.2337
		Highest	1.2337	1.2337

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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Energy	0.2022	1.7872	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			4,398.4584	0.3726	0.1058	4,439.3125
Mobile	9.4354	93.8136	101.9683	0.6526	66.0377	0.2531	66.2908	17.6744	0.2360	17.9104			65,622.3197	2.1410	0.0000	65,675.8457
Waste						0.0000	0.0000		0.0000	0.0000			2,705.8898	159.9135	0.0000	6,703.7275
Water						0.0000	0.0000		0.0000	0.0000			423.2900	11.9923	0.2910	809.8179
Total	104.1535	96.9017	155.2278	0.8040	66.0377	7.3214	73.3591	17.6744	7.3043	24.9787			74,663.0418	178.7232	0.4075	79,252.5614

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Energy	0.2022	1.7872	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			4,398.4584	0.3726	0.1058	4,439.3125
Mobile	9.4354	93.8136	101.9683	0.6526	66.0377	0.2531	66.2908	17.6744	0.2360	17.9104			65,622.3197	2.1410	0.0000	65,675.8457
Waste						0.0000	0.0000		0.0000	0.0000			2,705.8898	159.9135	0.0000	6,703.7275
Water						0.0000	0.0000		0.0000	0.0000			423.2900	11.9923	0.2910	809.8179
Total	104.1535	96.9017	155.2278	0.8040	66.0377	7.3214	73.3591	17.6744	7.3043	24.9787			74,663.0418	178.7232	0.4075	79,252.5614

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	8/14/2020	8/14/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 3331

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
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

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
Building Construction	9	63,620.00	24,780.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004			1.1581	2.8000e-004	0.0000	1.1651
Total	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004			1.1581	2.8000e-004	0.0000	1.1651

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0502	1.4653	0.3119	3.5000e-003	0.0819	8.0800e-003	0.0899	0.0237	7.7300e-003	0.0314			332.7953	0.0207	0.0000	333.3116
Worker	0.1269	0.0912	0.8990	2.4900e-003	0.2534	1.7200e-003	0.2551	0.0674	1.5900e-003	0.0690			224.7029	6.1900e-003	0.0000	224.8578
Total	0.1772	1.5565	1.2109	5.9900e-003	0.3352	9.8000e-003	0.3450	0.0910	9.3200e-003	0.1003			557.4982	0.0268	0.0000	558.1694

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3.2 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004			1.1581	2.8000e-004	0.0000	1.1651
Total	1.0600e-003	9.5900e-003	8.4200e-003	1.0000e-005		5.6000e-004	5.6000e-004		5.3000e-004	5.3000e-004			1.1581	2.8000e-004	0.0000	1.1651

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	0.0502	1.4653	0.3119	3.5000e-003	0.0819	8.0800e-003	0.0899	0.0237	7.7300e-003	0.0314			332.7953	0.0207	0.0000	333.3116
Worker	0.1269	0.0912	0.8990	2.4900e-003	0.2534	1.7200e-003	0.2551	0.0674	1.5900e-003	0.0690			224.7029	6.1900e-003	0.0000	224.8578
Total	0.1772	1.5565	1.2109	5.9900e-003	0.3352	9.8000e-003	0.3450	0.0910	9.3200e-003	0.1003			557.4982	0.0268	0.0000	558.1694

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	9.4354	93.8136	101.9683	0.6526	66.0377	0.2531	66.2908	17.6744	0.2360	17.9104			65,622.3197	2.1410	0.0000	65,675.8457
Unmitigated	9.4354	93.8136	101.9683	0.6526	66.0377	0.2531	66.2908	17.6744	0.2360	17.9104			65,622.3197	2.1410	0.0000	65,675.8457

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,608.00	1,718.40	1456.80	4,642,799	4,642,799
Apartments Mid Rise	804.00	766.80	703.20	2,272,716	2,272,716
City Park	167.40	217.00	518.94	479,714	479,714
Elementary School	7,408.00	0.00	0.00	11,667,278	11,667,278
General Office Building	15,137.10	2,678.94	1143.45	27,143,458	27,143,458
High School	6,898.70	828.77	828.77	13,521,322	13,521,322
Office Park	2,114.38	244.20	113.16	3,913,061	3,913,061
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	57,596.10	15,460.90	23106.40	84,309,045	84,309,045
Single Family Housing	10,026.60	9,741.53	8473.46	28,294,279	28,294,279
Total	101,760.28	31,656.54	36,344.18	176,243,672	176,243,672

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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Office Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			2,397.0860	0.3342	0.0692	2,426.0470
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			2,397.0860	0.3342	0.0692	2,426.0470
NaturalGas Mitigated	0.2022	1.7872	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			2,001.3724	0.0384	0.0367	2,013.2656
NaturalGas Unmitigated	0.2022	1.7872	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			2,001.3724	0.0384	0.0367	2,013.2656

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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 Low Rise	2.90369e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108			154.9521	2.9700e-003	2.8400e-003	155.8729
Apartments Mid Rise	1.16977e+006	6.3100e-003	0.0539	0.0229	3.4000e-004		4.3600e-003	4.3600e-003		4.3600e-003	4.3600e-003			62.4235	1.2000e-003	1.1400e-003	62.7944
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
Elementary School	3.12988e+006	0.0169	0.1534	0.1289	9.2000e-004		0.0117	0.0117		0.0117	0.0117			167.0223	3.2000e-003	3.0600e-003	168.0149
General Office Building	1.26977e+007	0.0685	0.6224	0.5229	3.7300e-003		0.0473	0.0473		0.0473	0.0473			677.5998	0.0130	0.0124	681.6264
High School	3.12988e+006	0.0169	0.1534	0.1289	9.2000e-004		0.0117	0.0117		0.0117	0.0117			167.0223	3.2000e-003	3.0600e-003	168.0149
Office Park	1.1376e+006	6.1300e-003	0.0558	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003			60.7065	1.1600e-003	1.1100e-003	61.0672
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
Recreational Swimming Pool	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
Single Family Housing	1.33357e+007	0.0719	0.6145	0.2615	3.9200e-003		0.0497	0.0497		0.0497	0.0497			711.6460	0.0136	0.0131	715.8749
Total		0.2022	1.7873	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			2,001.3724	0.0384	0.0367	2,013.2656

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	2.90369e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108			154.9521	2.9700e-003	2.8400e-003	155.8729
Apartments Mid Rise	1.16977e+006	6.3100e-003	0.0539	0.0229	3.4000e-004		4.3600e-003	4.3600e-003		4.3600e-003	4.3600e-003			62.4235	1.2000e-003	1.1400e-003	62.7944
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
Elementary School	3.12988e+006	0.0169	0.1534	0.1289	9.2000e-004		0.0117	0.0117		0.0117	0.0117			167.0223	3.2000e-003	3.0600e-003	168.0149
General Office Building	1.26977e+007	0.0685	0.6224	0.5229	3.7300e-003		0.0473	0.0473		0.0473	0.0473			677.5998	0.0130	0.0124	681.6264
High School	3.12988e+006	0.0169	0.1534	0.1289	9.2000e-004		0.0117	0.0117		0.0117	0.0117			167.0223	3.2000e-003	3.0600e-003	168.0149
Office Park	1.1376e+006	6.1300e-003	0.0558	0.0468	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003			60.7065	1.1600e-003	1.1100e-003	61.0672
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
Recreational Swimming Pool	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
Single Family Housing	1.33357e+007	0.0719	0.6145	0.2615	3.9200e-003		0.0497	0.0497		0.0497	0.0497			711.6460	0.0136	0.0131	715.8749
Total		0.2022	1.7873	1.1688	0.0110		0.1397	0.1397		0.1397	0.1397			2,001.3724	0.0384	0.0367	2,013.2656

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.0136e+006	95.6305	0.0133	2.7600e-003	96.7859
Apartments Mid Rise	481457	45.4241	6.3300e-003	1.3100e-003	45.9729
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.34278e+006	221.0348	0.0308	6.3800e-003	223.7053
General Office Building	9.84456e+006	928.8068	0.1295	0.0268	940.0284
High School	2.34278e+006	221.0348	0.0308	6.3800e-003	223.7053
Office Park	1.4354e+006	135.4256	0.0189	3.9100e-003	137.0618
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.94649e+006	749.7295	0.1045	0.0216	758.7875
Total		2,397.0860	0.3342	0.0692	2,426.0470

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.0136e+006	95.6305	0.0133	2.7600e-003	96.7859
Apartments Mid Rise	481457	45.4241	6.3300e-003	1.3100e-003	45.9729
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	2.34278e+006	221.0348	0.0308	6.3800e-003	223.7053
General Office Building	9.84456e+006	928.8068	0.1295	0.0268	940.0284
High School	2.34278e+006	221.0348	0.0308	6.3800e-003	223.7053
Office Park	1.4354e+006	135.4256	0.0189	3.9100e-003	137.0618
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.94649e+006	749.7295	0.1045	0.0216	758.7875
Total		2,397.0860	0.3342	0.0692	2,426.0470

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576
Unmitigated	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

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	17.5453					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	71.9969					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	4.6707	1.1856	42.0967	0.1399		6.8731	6.8731		6.8731	6.8731			1,496.6657	4.2880	0.0107	1,607.0436
Landscaping	0.3030	0.1152	9.9941	5.3000e-004		0.0555	0.0555		0.0555	0.0555			16.4181	0.0158	0.0000	16.8140
Total	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	17.5453					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	71.9969					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	4.6707	1.1856	42.0967	0.1399		6.8731	6.8731		6.8731	6.8731			1,496.6657	4.2880	0.0107	1,607.0436
Landscaping	0.3030	0.1152	9.9941	5.3000e-004		0.0555	0.0555		0.0555	0.0555			16.4181	0.0158	0.0000	16.8140
Total	94.5159	1.3008	52.0908	0.1404		6.9286	6.9286		6.9286	6.9286			1,513.0838	4.3038	0.0107	1,623.8576

7.0 Water Detail

7.1 Mitigation Measures Water

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	423.2900	11.9923	0.2910	809.8179
Unmitigated	423.2900	11.9923	0.2910	809.8179

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	12.3795 / 9.85809	13.5026	0.4047	9.8000e-003	26.5414
Apartments Mid Rise	6.18978 / 4.92904	6.7513	0.2024	4.9000e-003	13.2707
City Park	0 / 36.9359	12.1968	1.7000e-003	3.5000e-004	12.3442
Elementary School	10.6288 / 34.5229	20.1982	0.3487	8.6600e-003	31.4970
General Office Building	153.208 / 118.629	165.9939	5.0087	0.1213	327.3476
High School	12.1712 / 39.5325	23.1291	0.3993	9.9200e-003	36.0675
Office Park	20.9516 / 16.2202	22.6992	0.6850	0.0166	44.7647
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	50.7043 / 40.3771	55.3044	1.6577	0.0401	108.7088
Total		423.2900	11.9923	0.2910	809.8179

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	12.3795 / 9.85809	13.5026	0.4047	9.8000e-003	26.5414
Apartments Mid Rise	6.18978 / 4.92904	6.7513	0.2024	4.9000e-003	13.2707
City Park	0 / 36.9359	12.1968	1.7000e-003	3.5000e-004	12.3442
Elementary School	10.6288 / 34.5229	20.1982	0.3487	8.6600e-003	31.4970
General Office Building	153.208 / 118.629	165.9939	5.0087	0.1213	327.3476
High School	12.1712 / 39.5325	23.1291	0.3993	9.9200e-003	36.0675
Office Park	20.9516 / 16.2202	22.6992	0.6850	0.0166	44.7647
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	50.7043 / 40.3771	55.3044	1.6577	0.0401	108.7088
Total		423.2900	11.9923	0.2910	809.8179

8.0 Waste Detail**8.1 Mitigation Measures Waste**

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,705.889 8	159.9135	0.0000	6,703.727 5
Unmitigated	2,705.889 8	159.9135	0.0000	6,703.727 5

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	110.4	22.4102	1.3244	0.0000	55.5203
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	27.7602
City Park	2.67	0.5420	0.0320	0.0000	1.3428
Elementary School	601.9	122.1803	7.2207	0.0000	302.6964
General Office Building	1012.77	205.5832	12.1496	0.0000	509.3236
High School	601.9	122.1803	7.2207	0.0000	302.6964
Office Park	138.48	28.1102	1.6613	0.0000	69.6418
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	1122.48	227.8533	13.4657	0.0000	564.4969
Total		2,705.8898	159.9135	0.0000	6,703.7275

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	110.4	22.4102	1.3244	0.0000	55.5203
Apartments Mid Rise	55.2	11.2051	0.6622	0.0000	27.7602
City Park	2.67	0.5420	0.0320	0.0000	1.3428
Elementary School	601.9	122.1803	7.2207	0.0000	302.6964
General Office Building	1012.77	205.5832	12.1496	0.0000	509.3236
High School	601.9	122.1803	7.2207	0.0000	302.6964
Office Park	138.48	28.1102	1.6613	0.0000	69.6418
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	1122.48	227.8533	13.4657	0.0000	564.4969
Total		2,705.8898	159.9135	0.0000	6,703.7275

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses)

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,089.00	1000sqft	25.00	1,089,000.00	0
Office Park	148.90	1000sqft	3.42	148,900.00	0
Elementary School	463.00	1000sqft	10.63	463,000.00	0
High School	463.00	1000sqft	10.63	463,000.00	0
Other Asphalt Surfaces	3,331.00	Acre	3,331.00	145,098,360.00	0
City Park	31.00	Acre	31.00	1,350,360.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	240.00	Dwelling Unit	14.08	613,325.00	761
Apartments Mid Rise	120.00	Dwelling Unit	6.98	304,049.00	381
Single Family Housing	983.00	Dwelling Unit	297.26	12,948,646.00	3118

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 881,650,000 (176,000,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - Pool serving as surrogate for lake, which would not be service by WWTP. CalEEMod indoor water use adjusted to account for SEIR wastewater information.

Solid Waste - Solid Waste Emissions estimated off-model.

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155,000.00	1.00
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.25
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.00	2.10
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.19

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	10.91	7.64
tblEnergyUse	T24NG	23,147.69	10,879.37
tblLandUse	LandUseSquareFeet	240,000.00	613,325.00
tblLandUse	LandUseSquareFeet	120,000.00	304,049.00
tblLandUse	LandUseSquareFeet	1,769,400.00	12,948,646.00
tblLandUse	LotAcreage	15.00	14.08
tblLandUse	LotAcreage	3.16	6.98
tblLandUse	LotAcreage	319.16	297.26
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.9990e-003	3.0410e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4260e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	3.4120e-003	3.4600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2430e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.8990e-003	9.0240e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4300e-004
tblVehicleEF	LDA	1.0210e-003	1.0670e-003
tblVehicleEF	LDA	5.6600e-004	5.9100e-004
tblVehicleEF	LDA	9.3900e-004	9.8100e-004
tblVehicleEF	LDA	2.8480e-003	2.8880e-003
tblVehicleEF	LDA	0.03	0.03

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2010e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.3640e-003	4.4260e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4560e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45
tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.9590e-003	5.0290e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2000e-004
tblVehicleEF	LDT1	1.3210e-003	1.3800e-003
tblVehicleEF	LDT1	7.2100e-004	7.5300e-004
tblVehicleEF	LDT1	1.2140e-003	1.2690e-003
tblVehicleEF	LDT1	4.1450e-003	4.2030e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.0460e-003	6.1310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.7190e-003	4.7860e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	5.3620e-003	5.4380e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	LDT2	7.8160e-003	7.9260e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8400e-004
tblVehicleEF	LDT2	1.2290e-003	1.2840e-003
tblVehicleEF	LDT2	6.9000e-004	7.2100e-004
tblVehicleEF	LDT2	1.1300e-003	1.1810e-003
tblVehicleEF	LDT2	4.4830e-003	4.5460e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6250e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.6280e-003	6.7210e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7740e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3500e-004
tblVehicleEF	MDV	1.3350e-003	1.3950e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2820e-003
tblVehicleEF	MDV	6.3010e-003	6.3900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2900e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	ST_TR	22.75	7.00
tblVehicleTrips	ST_TR	4.37	1.79
tblVehicleTrips	WD_TR	6.59	6.70
tblVehicleTrips	WD_TR	6.65	6.70
tblVehicleTrips	WD_TR	1.89	5.40
tblVehicleTrips	WD_TR	15.43	16.00
tblVehicleTrips	WD_TR	11.03	13.90
tblVehicleTrips	WD_TR	12.89	14.90
tblVehicleTrips	WD_TR	11.42	14.20
tblVehicleTrips	WD_TR	33.82	33.90
tblVehicleTrips	WD_TR	9.52	10.20
tblWater	IndoorWaterUseRate	15,636,966.15	12,379,501.00
tblWater	IndoorWaterUseRate	7,818,483.07	6,189,777.00
tblWater	IndoorWaterUseRate	13,425,572.67	10,628,824.00

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

tblWater	IndoorWaterUseRate	193,552,051.57	153,208,497.00
tblWater	IndoorWaterUseRate	15,373,748.32	12,171,162.00
tblWater	IndoorWaterUseRate	26,464,555.08	20,951,595.00
tblWater	IndoorWaterUseRate	64,046,407.19	50,704,268.57
tblWoodstoves	NumberCatalytic	14.08	34.44
tblWoodstoves	NumberCatalytic	6.98	31.46
tblWoodstoves	NumberCatalytic	297.26	160.40
tblWoodstoves	NumberNoncatalytic	14.08	34.44
tblWoodstoves	NumberNoncatalytic	6.98	31.46
tblWoodstoves	NumberNoncatalytic	297.26	160.40

2.0 Emissions Summary

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355
Energy	1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488
Mobile	77.2093	635.0319	745.3829	4.6819	461.4395	1.7157	463.1552	123.1941	1.5999	124.7941			519,605.1047	15.6732		519,996.9339
Total	686.2453	675.0223	1,889.5813	8.1593	461.4395	170.7341	632.1736	123.1941	170.6183	293.8125			572,133.4236	131.3838	0.5084	575,569.5182

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	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355
Energy	1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488
Mobile	77.2093	635.0319	745.3829	4.6819	461.4395	1.7157	463.1552	123.1941	1.5999	124.7941			519,605.1047	15.6732		519,996.9339
Total	686.2453	675.0223	1,889.5813	8.1593	461.4395	170.7341	632.1736	123.1941	170.6183	293.8125			572,133.4236	131.3838	0.5084	575,569.5182

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	Building Construction	Building Construction	8/14/2020	8/14/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3331

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
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

Trips and VMT

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	63,620.00	24,780.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

3.2 Building Construction - 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
Vendor	98.7546	2,888.1501	580.3568	7.0979	167.8879	16.0267	183.9146	48.3380	15.3313	63.6693			743,183.1605	43.2935		744,265.4982
Worker	281.2922	164.9066	2,027.5935	5.4117	522.6232	3.4474	526.0706	138.6241	3.1756	141.7997			538,870.9771	14.9120		539,243.7772
Total	380.0468	3,053.0567	2,607.9502	12.5096	690.5112	19.4740	709.9852	186.9621	18.5069	205.4690			1,282,054.1376	58.2055		1,283,509.2754

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503			2,553.0631	0.6229		2,568.6345

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin County, Summer

3.2 Building Construction - 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
Vendor	98.7546	2,888.150 1	580.3568	7.0979	167.8879	16.0267	183.9146	48.3380	15.3313	63.6693			743,183.1 605	43.2935		744,265.4 982
Worker	281.2922	164.9066	2,027.593 5	5.4117	522.6232	3.4474	526.0706	138.6241	3.1756	141.7997			538,870.9 771	14.9120		539,243.7 772
Total	380.0468	3,053.056 7	2,607.950 2	12.5096	690.5112	19.4740	709.9852	186.9621	18.5069	205.4690			1,282,054. 1376	58.2055		1,283,509. 2754

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	77.2093	635.0319	745.3829	4.6819	461.4395	1.7157	463.1552	123.1941	1.5999	124.7941			519,605.1047	15.6732		519,996.9339
Unmitigated	77.2093	635.0319	745.3829	4.6819	461.4395	1.7157	463.1552	123.1941	1.5999	124.7941			519,605.1047	15.6732		519,996.9339

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,608.00	1,718.40	1456.80	4,642,799	4,642,799
Apartments Mid Rise	804.00	766.80	703.20	2,272,716	2,272,716
City Park	167.40	217.00	518.94	479,714	479,714
Elementary School	7,408.00	0.00	0.00	11,667,278	11,667,278
General Office Building	15,137.10	2,678.94	1143.45	27,143,458	27,143,458
High School	6,898.70	828.77	828.77	13,521,322	13,521,322
Office Park	2,114.38	244.20	113.16	3,913,061	3,913,061
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	57,596.10	15,460.90	23106.40	84,309,045	84,309,045
Single Family Housing	10,026.60	9,741.53	8473.46	28,294,279	28,294,279
Total	101,760.28	31,656.54	36,344.18	176,243,672	176,243,672

4.3 Trip Type Information

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Office Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488
NaturalGas Unmitigated	1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	7955.32	0.0858	0.7331	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593			935.9203	0.0179	0.0172	941.4820
Apartments Mid Rise	3204.85	0.0346	0.2954	0.1257	1.8900e-003		0.0239	0.0239		0.0239	0.0239			377.0417	7.2300e-003	6.9100e-003	379.2823
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
Elementary School	8575.01	0.0925	0.8407	0.7062	5.0400e-003		0.0639	0.0639		0.0639	0.0639			1,008.8251	0.0193	0.0185	1,014.8201
General Office Building	34788.3	0.3752	3.4106	2.8649	0.0205		0.2592	0.2592		0.2592	0.2592			4,092.7446	0.0784	0.0750	4,117.0657
High School	8575.01	0.0925	0.8407	0.7062	5.0400e-003		0.0639	0.0639		0.0639	0.0639			1,008.8251	0.0193	0.0185	1,014.8201
Office Park	3116.7	0.0336	0.3056	0.2567	1.8300e-003		0.0232	0.0232		0.0232	0.0232			366.6708	7.0300e-003	6.7200e-003	368.8497
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
Recreational Swimming Pool	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
Single Family Housing	36536.3	0.3940	3.3671	1.4328	0.0215		0.2722	0.2722		0.2722	0.2722			4,298.3857	0.0824	0.0788	4,323.9289
Total		1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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 Low Rise	7.95532	0.0858	0.7331	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593			935.9203	0.0179	0.0172	941.4820
Apartments Mid Rise	3.20485	0.0346	0.2954	0.1257	1.8900e-003		0.0239	0.0239		0.0239	0.0239			377.0417	7.2300e-003	6.9100e-003	379.2823
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
Elementary School	8.57501	0.0925	0.8407	0.7062	5.0400e-003		0.0639	0.0639		0.0639	0.0639			1,008.8251	0.0193	0.0185	1,014.8201
General Office Building	34.7883	0.3752	3.4106	2.8649	0.0205		0.2592	0.2592		0.2592	0.2592			4,092.7446	0.0784	0.0750	4,117.0657
High School	8.57501	0.0925	0.8407	0.7062	5.0400e-003		0.0639	0.0639		0.0639	0.0639			1,008.8251	0.0193	0.0185	1,014.8201
Office Park	3.1167	0.0336	0.3056	0.2567	1.8300e-003		0.0232	0.0232		0.0232	0.0232			366.6708	7.0300e-003	6.7200e-003	368.8497
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
Recreational Swimming Pool	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
Single Family Housing	36.5363	0.3940	3.3671	1.4328	0.0215		0.2722	0.2722		0.2722	0.2722			4,298.3857	0.0824	0.0788	4,323.9289
Total		1.1081	9.7931	6.4044	0.0604		0.7656	0.7656		0.7656	0.7656			12,088.4134	0.2317	0.2216	12,160.2488

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355
Unmitigated	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355

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	96.1384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	394.5037					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	113.9193	28.9174	1,026.7485	3.4111		167.6358	167.6358		167.6358	167.6358			40,238.8186	115.2849	0.2868	43,206.3993
Landscaping	3.3664	1.2799	111.0454	5.9100e-003		0.6170	0.6170		0.6170	0.6170			201.0869	0.1940		205.9362
Total	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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	96.1384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	394.5037					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	113.9193	28.9174	1,026.7485	3.4111		167.6358	167.6358		167.6358	167.6358			40,238.8186	115.2849	0.2868	43,206.3993
Landscaping	3.3664	1.2799	111.0454	5.9100e-003		0.6170	0.6170		0.6170	0.6170			201.0869	0.1940		205.9362
Total	607.9279	30.1973	1,137.7940	3.4170		168.2528	168.2528		168.2528	168.2528			40,439.9055	115.4789	0.2868	43,412.3355

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

River Islands Phase 2 Operational Emissions (2003 SEIR Land Uses) - San Joaquin 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

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

River Islands Phase 2 Operational Emissions (Without Valley Link)
San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	539.00	1000sqft	12.37	539,000.00	0
Elementary School	471.00	1000sqft	10.81	471,000.00	0
High School	471.00	1000sqft	10.81	471,000.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	51.00	Acre	51.00	2,221,560.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	367.00	Dwelling Unit	34.44	367,000.00	1164
Apartments Mid Rise	142.00	Dwelling Unit	7.28	142,400.00	450
Apartments Mid Rise	335.00	Dwelling Unit	24.18	1,461,960.00	1063
Condo/Townhouse	488.00	Dwelling Unit	30.96	487,800.00	1548
Single Family Housing	812.00	Dwelling Unit	160.40	335,400.00	2576

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 1,008,000,000 (201,400,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - CalEEMod defaults

Solid Waste - CalEEMod Defaults

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	7,750.00	1.00
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	381.61	179.30
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.25
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	3,318.70

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tblEnergyUse	T24NG	17,864.25	8,396.20
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.10
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	23,147.69	10,879.40
tblLandUse	LandUseSquareFeet	142,000.00	142,400.00
tblLandUse	LandUseSquareFeet	335,000.00	1,461,960.00
tblLandUse	LandUseSquareFeet	488,000.00	487,800.00
tblLandUse	LandUseSquareFeet	1,461,600.00	335,400.00
tblLandUse	LotAcreage	22.94	34.44
tblLandUse	LotAcreage	3.74	7.28
tblLandUse	LotAcreage	8.82	24.18
tblLandUse	LotAcreage	30.50	30.96
tblLandUse	LotAcreage	263.64	160.40
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.9990e-003	3.0413e-003
tblVehicleEF	LDA	0.02	0.02

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4255e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	3.4120e-003	3.4601e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2426e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.8990e-003	9.0245e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004

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tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.8480e-003	2.8882e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2014e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.3640e-003	4.4255e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4558e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45

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tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.9590e-003	5.0289e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.1450e-003	4.2034e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02

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tblVehicleEF	LDT1	6.0460e-003	6.1312e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59
tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
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tblVehicleEF	LDT2	4.7190e-003	4.7855e-003
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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003

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tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	5.3620e-003	5.4376e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.8160e-003	7.9262e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	4.4830e-003	4.5462e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6251e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51

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tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.6280e-003	6.7215e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7739e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01

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tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.3010e-003	6.3898e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2902e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	WD_TR	6.59	13.55
tblVehicleTrips	WD_TR	6.65	13.14
tblVehicleTrips	WD_TR	1.89	5.40
tblVehicleTrips	WD_TR	5.81	9.34
tblVehicleTrips	WD_TR	15.43	17.34
tblVehicleTrips	WD_TR	11.03	17.90
tblVehicleTrips	WD_TR	12.89	17.34
tblVehicleTrips	WD_TR	33.82	35.80
tblVehicleTrips	WD_TR	9.52	11.98

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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					
2021	0.0110	0.0891	0.0778	3.7000e-004	0.0213	8.0000e-004	0.0222	5.7800e-003	7.6000e-004	6.5400e-003			34.0534	1.7400e-003	0.0000	34.0970
Maximum	0.0110	0.0891	0.0778	3.7000e-004	0.0213	8.0000e-004	0.0222	5.7800e-003	7.6000e-004	6.5400e-003			34.0534	1.7400e-003	0.0000	34.0970

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					
2021	0.0110	0.0891	0.0778	3.7000e-004	0.0213	8.0000e-004	0.0222	5.7800e-003	7.6000e-004	6.5400e-003			34.0534	1.7400e-003	0.0000	34.0970
Maximum	0.0110	0.0891	0.0778	3.7000e-004	0.0213	8.0000e-004	0.0222	5.7800e-003	7.6000e-004	6.5400e-003			34.0534	1.7400e-003	0.0000	34.0970

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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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	0.0710	0.0710
		Highest	0.0710	0.0710

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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3
Energy	0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			3,925.808 3	0.3259	0.0939	3,961.935 2
Mobile	10.5854	104.7892	115.7143	0.7424	75.4876	0.2879	75.7755	20.2036	0.2686	20.4722			74,671.43 95	2.4025	0.0000	74,731.50 10
Waste						0.0000	0.0000		0.0000	0.0000			2,629.674 9	155.4093	0.0000	6,514.908 1
Water						0.0000	0.0000		0.0000	0.0000			416.1069	11.9442	0.2897	801.0420
Total	37.7676	108.4515	186.3946	0.9340	75.4876	9.3011	84.7887	20.2036	9.2818	29.4854			83,971.74 37	175.5851	0.4044	88,481.88 27

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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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.7141	5.5032	0.0208	2,472.4963
Energy	0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			3,925.8083	0.3259	0.0939	3,961.9352
Mobile	10.5854	104.7892	115.7143	0.7424	75.4876	0.2879	75.7755	20.2036	0.2686	20.4722			74,671.4395	2.4025	0.0000	74,731.5010
Waste						0.0000	0.0000		0.0000	0.0000			2,629.6749	155.4093	0.0000	6,514.9081
Water						0.0000	0.0000		0.0000	0.0000			416.1069	11.9442	0.2897	801.0420
Total	37.7676	108.4515	186.3946	0.9340	75.4876	9.3011	84.7887	20.2036	9.2818	29.4854			83,971.7437	175.5851	0.4044	88,481.8827

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/1/2021	4/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 40

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
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

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
Building Construction	9	4,198.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 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	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004			1.1582	2.8000e-004	0.0000	1.1652
Total	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004			1.1582	2.8000e-004	0.0000	1.1652

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	2.3200e-003	0.0750	0.0155	2.0000e-004	4.6200e-003	2.1000e-004	4.8400e-003	1.3400e-003	2.0000e-004	1.5400e-003			18.6271	1.1000e-003	0.0000	18.6547
Worker	7.7300e-003	5.3500e-003	0.0540	1.6000e-004	0.0167	1.1000e-004	0.0168	4.4500e-003	1.0000e-004	4.5500e-003			14.2680	3.6000e-004	0.0000	14.2772
Total	0.0101	0.0803	0.0695	3.6000e-004	0.0213	3.2000e-004	0.0217	5.7900e-003	3.0000e-004	6.0900e-003			32.8952	1.4600e-003	0.0000	32.9318

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3.2 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004			1.1582	2.8000e-004	0.0000	1.1652
Total	9.5000e-004	8.7200e-003	8.2900e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.5000e-004	4.5000e-004			1.1582	2.8000e-004	0.0000	1.1652

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	2.3200e-003	0.0750	0.0155	2.0000e-004	4.6200e-003	2.1000e-004	4.8400e-003	1.3400e-003	2.0000e-004	1.5400e-003			18.6271	1.1000e-003	0.0000	18.6547
Worker	7.7300e-003	5.3500e-003	0.0540	1.6000e-004	0.0167	1.1000e-004	0.0168	4.4500e-003	1.0000e-004	4.5500e-003			14.2680	3.6000e-004	0.0000	14.2772
Total	0.0101	0.0803	0.0695	3.6000e-004	0.0213	3.2000e-004	0.0217	5.7900e-003	3.0000e-004	6.0900e-003			32.8952	1.4600e-003	0.0000	32.9318

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	10.5854	104.7892	115.7143	0.7424	75.4876	0.2879	75.7755	20.2036	0.2686	20.4722			74,671.43 95	2.4025	0.0000	74,731.50 10
Unmitigated	10.5854	104.7892	115.7143	0.7424	75.4876	0.2879	75.7755	20.2036	0.2686	20.4722			74,671.43 95	2.4025	0.0000	74,731.50 10

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	4,972.85	2,627.72	2227.69	12,303,161	12,303,161
Apartments Mid Rise	1,865.88	907.38	832.12	4,582,235	4,582,235
Apartments Mid Rise	4,401.90	2,140.65	1963.10	10,810,202	10,810,202
City Park	275.40	1,160.25	853.74	1,034,181	1,034,181
Condo/Townhouse	4,557.92	2,766.96	2361.92	11,557,520	11,557,520
Elementary School	8,167.14	0.00	0.00	12,862,890	12,862,890
General Office Building	9,648.10	1,325.94	565.95	17,114,860	17,114,860
High School	8,167.14	2,058.27	843.09	16,358,669	16,358,669
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	60,824.20	15,460.90	23106.40	88,476,245	88,476,245
Single Family Housing	9,727.76	8,046.92	6999.44	26,363,989	26,363,989
Total	112,608.29	36,494.99	39,753.45	201,463,952	201,463,952

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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

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			2,084.5998	0.2906	0.0601	2,109.7853
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			2,084.5998	0.2906	0.0601	2,109.7853
NaturalGas Mitigated	0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			1,841.2085	0.0353	0.0338	1,852.1499
NaturalGas Unmitigated	0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			1,841.2085	0.0353	0.0338	1,852.1499

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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 Low Rise	2.60956e+006	0.0141	0.1202	0.0512	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003			139.2559	2.6700e-003	2.5500e-003	140.0834
Apartments Mid Rise	2.01191e+006	0.0109	0.0927	0.0395	5.9000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003			107.3632	2.0600e-003	1.9700e-003	108.0012
Apartments Mid Rise	852809	4.6000e-003	0.0393	0.0167	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003			45.5092	8.7000e-004	8.3000e-004	45.7796
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
Condo/Townhouse	5.4086e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202			288.6236	5.5300e-003	5.2900e-003	290.3387
Elementary School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
General Office Building	6.23623e+006	0.0336	0.3057	0.2568	1.8300e-003		0.0232	0.0232		0.0232	0.0232			332.7890	6.3800e-003	6.1000e-003	334.7666
High School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
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
Recreational Swimming Pool	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
Single Family Housing	1.10159e+007	0.0594	0.5076	0.2160	3.2400e-003		0.0410	0.0410		0.0410	0.0410			587.8513	0.0113	0.0108	591.3446
Total		0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			1,841.2085	0.0353	0.0337	1,852.1499

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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 Low Rise	2.60956e+006	0.0141	0.1202	0.0512	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003			139.2559	2.6700e-003	2.5500e-003	140.0834
Apartments Mid Rise	852809	4.6000e-003	0.0393	0.0167	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003			45.5092	8.7000e-004	8.3000e-004	45.7796
Apartments Mid Rise	2.01191e+006	0.0109	0.0927	0.0395	5.9000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003			107.3632	2.0600e-003	1.9700e-003	108.0012
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
Condo/Townhouse	5.4086e+006	0.0292	0.2492	0.1061	1.5900e-003		0.0202	0.0202		0.0202	0.0202			288.6236	5.5300e-003	5.2900e-003	290.3387
Elementary School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
General Office Building	6.23623e+006	0.0336	0.3057	0.2568	1.8300e-003		0.0232	0.0232		0.0232	0.0232			332.7890	6.3800e-003	6.1000e-003	334.7666
High School	3.18396e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119			169.9082	3.2600e-003	3.1100e-003	170.9179
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
Recreational Swimming Pool	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
Single Family Housing	1.10159e+007	0.0594	0.5076	0.2160	3.2400e-003		0.0410	0.0410		0.0410	0.0410			587.8513	0.0113	0.0108	591.3446
Total		0.1861	1.6269	0.9484	0.0102		0.1285	0.1285		0.1285	0.1285			1,841.2085	0.0353	0.0337	1,852.1499

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.54997e+006	146.2350	0.0204	4.2200e-003	148.0017
Apartments Mid Rise	1.34407e+006	126.8090	0.0177	3.6600e-003	128.3410
Apartments Mid Rise	569724	53.7519	7.4900e-003	1.5500e-003	54.4013
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.428e+006	229.0750	0.0319	6.6100e-003	231.8427
Elementary School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
General Office Building	4.87256e+006	459.7125	0.0641	0.0133	465.2666
High School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.56414e+006	619.3086	0.0864	0.0179	626.7909
Total		2,084.5998	0.2906	0.0601	2,109.7853

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.54997e+006	146.2350	0.0204	4.2200e-003	148.0017
Apartments Mid Rise	1.34407e+006	126.8090	0.0177	3.6600e-003	128.3410
Apartments Mid Rise	569724	53.7519	7.4900e-003	1.5500e-003	54.4013
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	2.428e+006	229.0750	0.0319	6.6100e-003	231.8427
Elementary School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
General Office Building	4.87256e+006	459.7125	0.0641	0.0133	465.2666
High School	2.38326e+006	224.8539	0.0314	6.4900e-003	227.5706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.56414e+006	619.3086	0.0864	0.0179	626.7909
Total		2,084.5998	0.2906	0.0601	2,109.7853

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	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3
Unmitigated	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3

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	3.6890					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	16.8317					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	5.9987	1.8521	53.8526	0.1806		8.7963	8.7963		8.7963	8.7963			2,302.651 5	5.4783	0.0208	2,445.8112
Landscaping	0.4768	0.1832	15.8794	8.4000e-004		0.0884	0.0884		0.0884	0.0884			26.0626	0.0249	0.0000	26.6851
Total	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.714 1	5.5032	0.0208	2,472.496 3

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	3.6890					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	16.8317					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	5.9987	1.8521	53.8526	0.1806		8.7963	8.7963		8.7963	8.7963			2,302.6515	5.4783	0.0208	2,445.8112
Landscaping	0.4768	0.1832	15.8794	8.4000e-004		0.0884	0.0884		0.0884	0.0884			26.0626	0.0249	0.0000	26.6851
Total	26.9962	2.0353	69.7320	0.1814		8.8847	8.8847		8.8847	8.8847			2,328.7141	5.5032	0.0208	2,472.4963

7.0 Water Detail

7.1 Mitigation Measures Water

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	416.1069	11.9442	0.2897	801.0420
Unmitigated	416.1069	11.9442	0.2897	801.0420

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	23.9115 / 15.0747	24.7711	0.7816	0.0189	49.9401
Apartments Mid Rise	31.0785 / 19.5929	32.1956	1.0158	0.0246	64.9085
City Park	0 / 60.7655	20.0657	2.8000e-003	5.8000e-004	20.3081
Condo/Townhouse	31.7952 / 20.0448	32.9381	1.0392	0.0251	66.4054
Elementary School	13.6575 / 35.1194	22.9022	0.4476	0.0110	37.3838
General Office Building	95.7985 / 58.7152	98.6875	3.1311	0.0757	199.5173
High School	15.6394 / 40.2156	26.2256	0.5126	0.0127	42.8085
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	52.9051 / 33.3532	54.8068	1.7292	0.0418	110.4942
Total		416.1069	11.9442	0.2897	801.0420

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	23.9115 / 15.0747	24.7711	0.7816	0.0189	49.9401
Apartments Mid Rise	31.0785 / 19.5929	32.1956	1.0158	0.0246	64.9085
City Park	0 / 60.7655	20.0657	2.8000e-003	5.8000e-004	20.3081
Condo/Townhouse	31.7952 / 20.0448	32.9381	1.0392	0.0251	66.4054
Elementary School	13.6575 / 35.1194	22.9022	0.4476	0.0110	37.3838
General Office Building	95.7985 / 58.7152	98.6875	3.1311	0.0757	199.5173
High School	15.6394 / 40.2156	26.2256	0.5126	0.0127	42.8085
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	100.484 / 61.5871	103.5145	3.2843	0.0794	209.2762
Single Family Housing	52.9051 / 33.3532	54.8068	1.7292	0.0418	110.4942
Total		416.1069	11.9442	0.2897	801.0420

8.0 Waste Detail

8.1 Mitigation Measures Waste

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,629.674 9	155.4093	0.0000	6,514.908 1
Unmitigated	2,629.674 9	155.4093	0.0000	6,514.908 1

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	168.82	34.2689	2.0252	0.0000	84.8998
Apartments Mid Rise	219.42	44.5403	2.6323	0.0000	110.3467
City Park	4.39	0.8911	0.0527	0.0000	2.2077
Condo/Townhouse	224.48	45.5674	2.6930	0.0000	112.8913
Elementary School	612.3	124.2914	7.3454	0.0000	307.9266
General Office Building	501.27	101.7533	6.0135	0.0000	252.0894
High School	612.3	124.2914	7.3454	0.0000	307.9266
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	927.36	188.2457	11.1250	0.0000	466.3708
Total		2,629.6749	155.4093	0.0000	6,514.9081

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	168.82	34.2689	2.0252	0.0000	84.8998
Apartments Mid Rise	219.42	44.5403	2.6323	0.0000	110.3467
City Park	4.39	0.8911	0.0527	0.0000	2.2077
Condo/Townhouse	224.48	45.5674	2.6930	0.0000	112.8913
Elementary School	612.3	124.2914	7.3454	0.0000	307.9266
General Office Building	501.27	101.7533	6.0135	0.0000	252.0894
High School	612.3	124.2914	7.3454	0.0000	307.9266
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9684.3	1,965.8254	116.1770	0.0000	4,870.2492
Single Family Housing	927.36	188.2457	11.1250	0.0000	466.3708
Total		2,629.6749	155.4093	0.0000	6,514.9081

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

River Islands Phase 2 Operational Emissions (Without Valley Link)
San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	539.00	1000sqft	12.37	539,000.00	0
Elementary School	471.00	1000sqft	10.81	471,000.00	0
High School	471.00	1000sqft	10.81	471,000.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	51.00	Acre	51.00	2,221,560.00	0
Recreational Swimming Pool	1,699.00	1000sqft	39.00	1,699,000.00	0
Apartments Low Rise	367.00	Dwelling Unit	34.44	367,000.00	1164
Apartments Mid Rise	142.00	Dwelling Unit	7.28	142,400.00	450
Apartments Mid Rise	335.00	Dwelling Unit	24.18	1,461,960.00	1063
Condo/Townhouse	488.00	Dwelling Unit	30.96	487,800.00	1548
Single Family Housing	812.00	Dwelling Unit	160.40	335,400.00	2576

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	51
Climate Zone	2			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	208	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

Project Characteristics - 95330 Zip Code; CO2 Intensity Factor amended for 2018 based on PG&E 10-k form. This model runs for operational emissions only.

Land Use - Land uses derived from Chapter 2. Project Description. Land uses adjusted by one fifth total.

Construction Phase - This model runs for operational emissions only.

Off-road Equipment - CalEEMod defaults used

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Total VMT 1,008,000,000 (201,400,000 scaled by 5)

Energy Use - Title 24 values adjusted to reflect 2019 California Energy Code

Water And Wastewater - CalEEMod defaults

Solid Waste - CalEEMod Defaults

Construction Off-road Equipment Mitigation - 2003 SEIR Mitigation Measure 4.5-a

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	7,750.00	1.00
tblEnergyUse	T24E	511.12	240.22
tblEnergyUse	T24E	460.92	216.60
tblEnergyUse	T24E	381.61	179.30
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	3.22	2.25
tblEnergyUse	T24E	1.88	1.30
tblEnergyUse	T24E	678.97	319.11
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	3,318.70

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblEnergyUse	T24NG	17,864.25	8,396.20
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	15.99	11.10
tblEnergyUse	T24NG	9.05	6.34
tblEnergyUse	T24NG	23,147.69	10,879.40
tblLandUse	LandUseSquareFeet	142,000.00	142,400.00
tblLandUse	LandUseSquareFeet	335,000.00	1,461,960.00
tblLandUse	LandUseSquareFeet	488,000.00	487,800.00
tblLandUse	LandUseSquareFeet	1,461,600.00	335,400.00
tblLandUse	LotAcreage	22.94	34.44
tblLandUse	LotAcreage	3.74	7.28
tblLandUse	LotAcreage	8.82	24.18
tblLandUse	LotAcreage	30.50	30.96
tblLandUse	LotAcreage	263.64	160.40
tblProjectCharacteristics	CO2IntensityFactor	641.35	208
tblVehicleEF	LDA	0.24	0.25
tblVehicleEF	LDA	0.36	0.37
tblVehicleEF	LDA	162.45	187.78
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.9990e-003	3.0413e-003
tblVehicleEF	LDA	0.02	0.02

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDA	9.8650e-003	0.01
tblVehicleEF	LDA	4.3640e-003	4.4255e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	0.29	0.30
tblVehicleEF	LDA	177.31	204.95
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004
tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	3.4120e-003	3.4601e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.1280e-003	8.2426e-003
tblVehicleEF	LDA	4.9670e-003	5.0370e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	8.8990e-003	9.0245e-003
tblVehicleEF	LDA	0.22	0.23
tblVehicleEF	LDA	0.43	0.45
tblVehicleEF	LDA	157.77	182.37
tblVehicleEF	LDA	35.69	41.25
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	6.1500e-004	6.4261e-004

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDA	1.0210e-003	1.0668e-003
tblVehicleEF	LDA	5.6600e-004	5.9141e-004
tblVehicleEF	LDA	9.3900e-004	9.8116e-004
tblVehicleEF	LDA	2.8480e-003	2.8882e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	4.1430e-003	4.2014e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDT1	0.32	0.33
tblVehicleEF	LDT1	0.54	0.56
tblVehicleEF	LDT1	207.81	240.20
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.3640e-003	4.4255e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	6.3660e-003	6.4558e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.39	0.40
tblVehicleEF	LDT1	0.44	0.45

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT1	226.41	261.70
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.9590e-003	5.0289e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	7.2340e-003	7.3360e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.65	0.67
tblVehicleEF	LDT1	201.95	233.43
tblVehicleEF	LDT1	46.54	53.80
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	7.8500e-004	8.2025e-004
tblVehicleEF	LDT1	1.3210e-003	1.3803e-003
tblVehicleEF	LDT1	7.2100e-004	7.5337e-004
tblVehicleEF	LDT1	1.2140e-003	1.2685e-003
tblVehicleEF	LDT1	4.1450e-003	4.2034e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT1	6.0460e-003	6.1312e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT2	0.37	0.39
tblVehicleEF	LDT2	0.57	0.59
tblVehicleEF	LDT2	238.75	275.97
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	4.7190e-003	4.7855e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.8780e-003	6.9750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.45	0.47
tblVehicleEF	LDT2	0.49	0.51
tblVehicleEF	LDT2	260.08	300.63
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	5.3620e-003	5.4376e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	7.8160e-003	7.9262e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.37
tblVehicleEF	LDT2	0.65	0.67
tblVehicleEF	LDT2	232.03	268.21
tblVehicleEF	LDT2	53.00	61.26
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	7.5000e-004	7.8368e-004
tblVehicleEF	LDT2	1.2290e-003	1.2842e-003
tblVehicleEF	LDT2	6.9000e-004	7.2098e-004
tblVehicleEF	LDT2	1.1300e-003	1.1807e-003
tblVehicleEF	LDT2	4.4830e-003	4.5462e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	6.5330e-003	6.6251e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	MDV	0.45	0.46
tblVehicleEF	MDV	0.91	0.95
tblVehicleEF	MDV	316.21	365.51

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.6280e-003	6.7215e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	9.6380e-003	9.7739e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.54	0.57
tblVehicleEF	MDV	0.77	0.80
tblVehicleEF	MDV	343.68	397.26
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	7.5150e-003	7.6210e-003
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.01	0.01

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.42	0.44
tblVehicleEF	MDV	1.06	1.10
tblVehicleEF	MDV	307.55	355.50
tblVehicleEF	MDV	70.16	81.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	7.9900e-004	8.3488e-004
tblVehicleEF	MDV	1.3350e-003	1.3949e-003
tblVehicleEF	MDV	7.3500e-004	7.6800e-004
tblVehicleEF	MDV	1.2270e-003	1.2821e-003
tblVehicleEF	MDV	6.3010e-003	6.3898e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	9.1610e-003	9.2902e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.06	0.06
tblVehicleTrips	WD_TR	6.59	13.55
tblVehicleTrips	WD_TR	6.65	13.14
tblVehicleTrips	WD_TR	1.89	5.40
tblVehicleTrips	WD_TR	5.81	9.34
tblVehicleTrips	WD_TR	15.43	17.34
tblVehicleTrips	WD_TR	11.03	17.90
tblVehicleTrips	WD_TR	12.89	17.34
tblVehicleTrips	WD_TR	33.82	35.80
tblVehicleTrips	WD_TR	9.52	11.98

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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					
2021	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.4752	3.7986	0.0000	78,462.4405
Maximum	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.4752	3.7986	0.0000	78,462.4405

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.4752	3.7986	0.0000	78,462.4405
Maximum	23.5886	175.2277	167.3423	0.7677	43.9708	1.5975	45.5683	11.8782	1.5045	13.3827			78,367.4752	3.7986	0.0000	78,462.4405

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Energy	1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1002
Mobile	86.5835	710.1364	848.2519	5.3327	528.0499	1.9539	530.0038	140.9776	1.8229	142.8006			591,965.5628	17.6243		592,406.1700
Total	351.6529	766.2605	2,343.3646	9.8025	528.0499	218.1843	746.2341	140.9776	218.0533	359.0310			665,314.0528	165.4289	0.7636	669,677.3107

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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Energy	1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1002
Mobile	86.5835	710.1364	848.2519	5.3327	528.0499	1.9539	530.0038	140.9776	1.8229	142.8006			591,965.5628	17.6243		592,406.1700
Total	351.6529	766.2605	2,343.3646	9.8025	528.0499	218.1843	746.2341	140.9776	218.0533	359.0310			665,314.0528	165.4289	0.7636	669,677.3107

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	Building Construction	Building Construction	4/1/2021	4/1/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 40

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
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

Trips and VMT

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	4,198.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

3.2 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
Vendor	4.5525	148.1076	28.6413	0.3973	9.4853	0.4195	9.9048	2.7310	0.4013	3.1322			41,598.2700	2.3048		41,655.8898
Worker	17.1352	9.6880	122.1259	0.3435	34.4856	0.2193	34.7049	9.1472	0.2020	9.3492			34,215.8413	0.8778		34,237.7865
Total	21.6877	157.7956	150.7671	0.7408	43.9708	0.6388	44.6097	11.8782	0.6033	12.4814			75,814.1113	3.1826		75,893.6763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013			2,553.3639	0.6160		2,568.7643

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

3.2 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
Vendor	4.5525	148.1076	28.6413	0.3973	9.4853	0.4195	9.9048	2.7310	0.4013	3.1322			41,598.27 00	2.3048		41,655.88 98
Worker	17.1352	9.6880	122.1259	0.3435	34.4856	0.2193	34.7049	9.1472	0.2020	9.3492			34,215.84 13	0.8778		34,237.78 65
Total	21.6877	157.7956	150.7671	0.7408	43.9708	0.6388	44.6097	11.8782	0.6033	12.4814			75,814.11 13	3.1826		75,893.67 63

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	86.5835	710.1364	848.2519	5.3327	528.0499	1.9539	530.0038	140.9776	1.8229	142.8006			591,965.5628	17.6243		592,406.1700
Unmitigated	86.5835	710.1364	848.2519	5.3327	528.0499	1.9539	530.0038	140.9776	1.8229	142.8006			591,965.5628	17.6243		592,406.1700

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	4,972.85	2,627.72	2227.69	12,303,161	12,303,161
Apartments Mid Rise	1,865.88	907.38	832.12	4,582,235	4,582,235
Apartments Mid Rise	4,401.90	2,140.65	1963.10	10,810,202	10,810,202
City Park	275.40	1,160.25	853.74	1,034,181	1,034,181
Condo/Townhouse	4,557.92	2,766.96	2361.92	11,557,520	11,557,520
Elementary School	8,167.14	0.00	0.00	12,862,890	12,862,890
General Office Building	9,648.10	1,325.94	565.95	17,114,860	17,114,860
High School	8,167.14	2,058.27	843.09	16,358,669	16,358,669
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	60,824.20	15,460.90	23106.40	88,476,245	88,476,245
Single Family Housing	9,727.76	8,046.92	6999.44	26,363,989	26,363,989
Total	112,608.29	36,494.99	39,753.45	201,463,952	201,463,952

4.3 Trip Type Information

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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 Low Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Single Family Housing	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Apartments Mid Rise	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
City Park	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Condo/Townhouse	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Elementary School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
General Office Building	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
High School	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Other Asphalt Surfaces	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Recreational Swimming Pool	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470
Single Family Housing	0.588508	0.031651	0.193340	0.096686	0.008696	0.003688	0.014919	0.054718	0.001159	0.001106	0.004523	0.000536	0.000470

5.0 Energy Detail

Historical Energy Use: N

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin County, Summer

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	1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1002
NaturalGas Unmitigated	1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1002

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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 Low Rise	7149.47	0.0771	0.6589	0.2804	4.2100e-003		0.0533	0.0533		0.0533	0.0533			841.1143	0.0161	0.0154	846.1126
Apartments Mid Rise	2336.46	0.0252	0.2153	0.0916	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.8781	5.2700e-003	5.0400e-003	276.5116
Apartments Mid Rise	5512.08	0.0594	0.5080	0.2162	3.2400e-003		0.0411	0.0411		0.0411	0.0411			648.4801	0.0124	0.0119	652.3337
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
Condo/Townhouse	14818.1	0.1598	1.3656	0.5811	8.7200e-003		0.1104	0.1104		0.1104	0.1104			1,743.3043	0.0334	0.0320	1,753.6639
Elementary School	8723.18	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
General Office Building	17085.6	0.1843	1.6751	1.4071	0.0101		0.1273	0.1273		0.1273	0.1273			2,010.0661	0.0385	0.0369	2,022.0109
High School	8723.18	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
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
Recreational Swimming Pool	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
Single Family Housing	30180.6	0.3255	2.7814	1.1836	0.0178		0.2249	0.2249		0.2249	0.2249			3,550.6581	0.0681	0.0651	3,571.7579
Total		1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1001

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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 Low Rise	7.14947	0.0771	0.6589	0.2804	4.2100e-003		0.0533	0.0533		0.0533	0.0533			841.1143	0.0161	0.0154	846.1126
Apartments Mid Rise	2.33646	0.0252	0.2153	0.0916	1.3700e-003		0.0174	0.0174		0.0174	0.0174			274.8781	5.2700e-003	5.0400e-003	276.5116
Apartments Mid Rise	5.51208	0.0594	0.5080	0.2162	3.2400e-003		0.0411	0.0411		0.0411	0.0411			648.4801	0.0124	0.0119	652.3337
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
Condo/Townhouse	14.8181	0.1598	1.3656	0.5811	8.7200e-003		0.1104	0.1104		0.1104	0.1104			1,743.3043	0.0334	0.0320	1,753.6639
Elementary School	8.72318	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
General Office Building	17.0856	0.1843	1.6751	1.4071	0.0101		0.1273	0.1273		0.1273	0.1273			2,010.0661	0.0385	0.0369	2,022.0109
High School	8.72318	0.0941	0.8552	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650			1,026.2562	0.0197	0.0188	1,032.3548
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
Recreational Swimming Pool	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
Single Family Housing	30.1806	0.3255	2.7814	1.1836	0.0178		0.2249	0.2249		0.2249	0.2249			3,550.6581	0.0681	0.0651	3,571.7579
Total		1.0194	8.9146	5.1966	0.0556		0.7043	0.7043		0.7043	0.7043			11,121.0135	0.2132	0.2039	11,187.1001

6.0 Area Detail

6.1 Mitigation Measures Area

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405
Unmitigated	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

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	20.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	92.2286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	146.3105	45.1738	1,313.4786	4.4049		214.5440	214.5440		214.5440	214.5440			61,908.2644	147.2864	0.5597	65,757.2035
Landscaping	5.2975	2.0357	176.4375	9.3700e-003		0.9821	0.9821		0.9821	0.9821			319.2120	0.3050		326.8370
Total	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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	20.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	92.2286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	146.3105	45.1738	1,313.4786	4.4049		214.5440	214.5440		214.5440	214.5440			61,908.2644	147.2864	0.5597	65,757.2035
Landscaping	5.2975	2.0357	176.4375	9.3700e-003		0.9821	0.9821		0.9821	0.9821			319.2120	0.3050		326.8370
Total	264.0500	47.2095	1,489.9161	4.4142		215.5261	215.5261		215.5261	215.5261			62,227.4764	147.5914	0.5597	66,084.0405

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

River Islands Phase 2 Operational Emissions (Without Valley Link) - San Joaquin 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
