

APPENDIX B

Revised Air Quality Modeling

Elk Grove SOIA FEIS - Sacramento County, Summer

Elk Grove SOIA FEIS
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	594.59	1000sqft	13.65	594,594.00	0
Regional Shopping Center	594.59	1000sqft	13.65	594,594.00	0
General Heavy Industry	1,226.21	1000sqft	28.15	1,226,210.00	0
General Light Industry	1,563.80	1000sqft	35.90	1,563,800.00	0
Single Family Housing	18.00	Dwelling Unit	5.84	32,400.00	48

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assume 25% of the entire SOIA could be developed in a single year.

Grading -

Elk Grove SOIA FEIS - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	155.00	261.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	60.00	261.00
tblConstructionPhase	PhaseEndDate	12/28/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	2/24/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	5/20/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	3/17/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	7/27/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	8/12/2021	12/31/2021
tblConstructionPhase	PhaseStartDate	7/28/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	3/18/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	8/13/2021	1/1/2021
tblConstructionPhase	PhaseStartDate	2/25/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	5/21/2021	1/1/2021
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00

2.0 Emissions Summary

Elk Grove SOIA FEIS - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Energy	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434
Mobile	91.9797	282.9553	812.6813	2.3937	194.9517	1.9796	196.9314	52.1155	1.8514	53.9669		242,397.4777	242,397.4777	11.4044		242,682.5882
Total	191.4692	313.3457	840.0365	2.5760	194.9517	4.2979	199.2497	52.1155	4.1697	56.2852	0.0000	278,853.4474	278,853.4474	12.1080	0.6683	279,355.2984

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	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Energy	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434
Mobile	91.9797	282.9553	812.6813	2.3937	194.9517	1.9796	196.9314	52.1155	1.8514	53.9669		242,397.4777	242,397.4777	11.4044		242,682.5882
Total	191.4692	313.3457	840.0365	2.5760	194.9517	4.2979	199.2497	52.1155	4.1697	56.2852	0.0000	278,853.4474	278,853.4474	12.1080	0.6683	279,355.2984

Elk Grove SOIA FEIS - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	12/31/2021	5	261	
2	Site Preparation	Site Preparation	1/1/2021	12/31/2021	5	261	
3	Grading	Grading	1/1/2021	12/31/2021	5	261	
4	Building Construction	Building Construction	1/1/2021	12/31/2021	5	261	
5	Paving	Paving	1/1/2021	12/31/2021	5	261	
6	Architectural Coating	Architectural Coating	1/1/2021	12/31/2021	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 652.5

Acres of Paving: 0

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 5,968,797; Non-Residential Outdoor: 1,989,599; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Elk Grove SOIA FEIS - Sacramento County, Summer

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

Elk Grove SOIA FEIS - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,559.00	654.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	312.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174

Elk Grove SOIA FEIS - Sacramento County, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
Total	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Elk Grove SOIA FEIS - Sacramento County, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
Total	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Elk Grove SOIA FEIS - Sacramento County, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580
Total	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Elk Grove SOIA FEIS - Sacramento County, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580
Total	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580

3.4 Grading - 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					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Elk Grove SOIA FEIS - Sacramento County, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
Total	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Elk Grove SOIA FEIS - Sacramento County, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
Total	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	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	2,553.3639	0.6160		2,568.7643

Elk Grove SOIA FEIS - Sacramento County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.0210	65.6880	16.7735	0.1614	3.9353	0.1802	4.1155	1.1324	0.1723	1.3047		17,100.65 51	17,100.65 51	0.9346		17,124.02 05
Worker	6.2484	3.1985	46.6381	0.1200	11.8593	0.0800	11.9393	3.1458	0.0738	3.2196		11,949.40 82	11,949.40 82	0.3180		11,957.35 74
Total	8.2694	68.8865	63.4116	0.2814	15.7946	0.2602	16.0548	4.2782	0.2461	4.5243		29,050.06 32	29,050.06 32	1.2526		29,081.37 79

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Elk Grove SOIA FEIS - Sacramento County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.0210	65.6880	16.7735	0.1614	3.9353	0.1802	4.1155	1.1324	0.1723	1.3047		17,100.6551	17,100.6551	0.9346		17,124.0205
Worker	6.2484	3.1985	46.6381	0.1200	11.8593	0.0800	11.9393	3.1458	0.0738	3.2196		11,949.4082	11,949.4082	0.3180		11,957.3574
Total	8.2694	68.8865	63.4116	0.2814	15.7946	0.2602	16.0548	4.2782	0.2461	4.5243		29,050.0632	29,050.0632	1.2526		29,081.3779

3.6 Paving - 2021

Unmitigated Construction On-Site

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

Elk Grove SOIA FEIS - Sacramento County, Summer

3.6 Paving - 2021

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Elk Grove SOIA FEIS - Sacramento County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

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

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.8837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	143.1026	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Elk Grove SOIA FEIS - Sacramento County, Summer

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2505	0.6401	9.3336	0.0240	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,391.4146	2,391.4146	0.0636		2,393.0055
Total	1.2505	0.6401	9.3336	0.0240	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,391.4146	2,391.4146	0.0636		2,393.0055

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.8837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	143.1026	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Elk Grove SOIA FEIS - Sacramento County, Summer

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2505	0.6401	9.3336	0.0240	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,391.4146	2,391.4146	0.0636		2,393.0055
Total	1.2505	0.6401	9.3336	0.0240	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,391.4146	2,391.4146	0.0636		2,393.0055

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Elk Grove SOIA FEIS - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	91.9797	282.9553	812.6813	2.3937	194.9517	1.9796	196.9314	52.1155	1.8514	53.9669		242,397.4 777	242,397.4 777	11.4044		242,682.5 882
Unmitigated	91.9797	282.9553	812.6813	2.3937	194.9517	1.9796	196.9314	52.1155	1.8514	53.9669		242,397.4 777	242,397.4 777	11.4044		242,682.5 882

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	1,839.32	1,839.32	1839.32	5,087,084	5,087,084
General Light Industry	10,899.69	2,064.22	1063.38	22,768,451	22,768,451
Office Park	6,790.22	975.13	451.89	10,945,549	10,945,549
Regional Shopping Center	25,388.99	29,711.66	15007.45	34,266,725	34,266,725
Single Family Housing	171.36	178.38	155.16	436,363	436,363
Total	45,089.57	34,768.70	18,517.20	73,504,172	73,504,172

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

Elk Grove SOIA FEIS - Sacramento County, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
General Light Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Office Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Regional Shopping Center	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434
NaturalGas Unmitigated	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434

Elk Grove SOIA FEIS - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	120303	1.2974	11.7944	9.9073	0.0708		0.8964	0.8964		0.8964	0.8964		14,153.2893	14,153.2893	0.2713	0.2595	14,237.3952
General Light Industry	153424	1.6546	15.0416	12.6349	0.0903		1.1432	1.1432		1.1432	1.1432		18,049.8559	18,049.8559	0.3460	0.3309	18,157.1172
Office Park	26015.5	0.2806	2.5505	2.1425	0.0153		0.1938	0.1938		0.1938	0.1938		3,060.6499	3,060.6499	0.0587	0.0561	3,078.8378
Regional Shopping Center	8829.31	0.0952	0.8656	0.7271	5.1900e-003		0.0658	0.0658		0.0658	0.0658		1,038.7428	1,038.7428	0.0199	0.0190	1,044.9155
Single Family Housing	1274.04	0.0137	0.1174	0.0500	7.5000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003		149.8870	149.8870	2.8700e-003	2.7500e-003	150.7777
Total		3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434

Elk Grove SOIA FEIS - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	120.303	1.2974	11.7944	9.9073	0.0708		0.8964	0.8964		0.8964	0.8964		14,153.2893	14,153.2893	0.2713	0.2595	14,237.3952
General Light Industry	153.424	1.6546	15.0416	12.6349	0.0903		1.1432	1.1432		1.1432	1.1432		18,049.8559	18,049.8559	0.3460	0.3309	18,157.1172
Office Park	26.0155	0.2806	2.5505	2.1425	0.0153		0.1938	0.1938		0.1938	0.1938		3,060.6499	3,060.6499	0.0587	0.0561	3,078.8378
Regional Shopping Center	8.82931	0.0952	0.8656	0.7271	5.1900e-003		0.0658	0.0658		0.0658	0.0658		1,038.7428	1,038.7428	0.0199	0.0190	1,044.9155
Single Family Housing	1.27404	0.0137	0.1174	0.0500	7.5000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003		149.8870	149.8870	2.8700e-003	2.7500e-003	150.7777
Total		3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434

6.0 Area Detail

6.1 Mitigation Measures Area

Elk Grove SOIA FEIS - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Unmitigated	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

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	10.2172					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.8482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0828	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003		3.5448	3.5448	4.8800e-003		3.6667
Total	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

Elk Grove SOIA FEIS - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	10.2172					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.8482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0828	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003		3.5448	3.5448	4.8800e-003		3.6667
Total	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Elk Grove SOIA FEIS - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Elk Grove SOIA FEIS - Sacramento County, Winter

Elk Grove SOIA FEIS
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	594.59	1000sqft	13.65	594,594.00	0
Regional Shopping Center	594.59	1000sqft	13.65	594,594.00	0
General Heavy Industry	1,226.21	1000sqft	28.15	1,226,210.00	0
General Light Industry	1,563.80	1000sqft	35.90	1,563,800.00	0
Single Family Housing	18.00	Dwelling Unit	5.84	32,400.00	48

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assume 25% of the entire SOIA could be developed in a single year.

Grading -

Elk Grove SOIA FEIS - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	155.00	261.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	60.00	261.00
tblConstructionPhase	PhaseEndDate	12/28/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	2/24/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	5/20/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	3/17/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	7/27/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	8/12/2021	12/31/2021
tblConstructionPhase	PhaseStartDate	7/28/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	3/18/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	8/13/2021	1/1/2021
tblConstructionPhase	PhaseStartDate	2/25/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	5/21/2021	1/1/2021
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00

2.0 Emissions Summary

Elk Grove SOIA FEIS - Sacramento County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Energy	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434
Mobile	67.3018	299.6646	775.7828	2.1617	194.9517	2.0155	196.9672	52.1155	1.8857	54.0012		219,119.6049	219,119.6049	11.4840		219,406.7047
Total	166.7913	330.0550	803.1381	2.3441	194.9517	4.3338	199.2855	52.1155	4.2040	56.3195	0.0000	255,575.5746	255,575.5746	12.1875	0.6683	256,079.4149

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	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Energy	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434
Mobile	67.3018	299.6646	775.7828	2.1617	194.9517	2.0155	196.9672	52.1155	1.8857	54.0012		219,119.6049	219,119.6049	11.4840		219,406.7047
Total	166.7913	330.0550	803.1381	2.3441	194.9517	4.3338	199.2855	52.1155	4.2040	56.3195	0.0000	255,575.5746	255,575.5746	12.1875	0.6683	256,079.4149

Elk Grove SOIA FEIS - Sacramento County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	12/31/2021	5	261	
2	Site Preparation	Site Preparation	1/1/2021	12/31/2021	5	261	
3	Grading	Grading	1/1/2021	12/31/2021	5	261	
4	Building Construction	Building Construction	1/1/2021	12/31/2021	5	261	
5	Paving	Paving	1/1/2021	12/31/2021	5	261	
6	Architectural Coating	Architectural Coating	1/1/2021	12/31/2021	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 652.5

Acres of Paving: 0

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 5,968,797; Non-Residential Outdoor: 1,989,599; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Elk Grove SOIA FEIS - Sacramento County, Winter

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

Elk Grove SOIA FEIS - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,559.00	654.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	312.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174

Elk Grove SOIA FEIS - Sacramento County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Elk Grove SOIA FEIS - Sacramento County, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Elk Grove SOIA FEIS - Sacramento County, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503
Total	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Elk Grove SOIA FEIS - Sacramento County, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503
Total	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503

3.4 Grading - 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					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Elk Grove SOIA FEIS - Sacramento County, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
Total	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Elk Grove SOIA FEIS - Sacramento County, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
Total	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	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	2,553.3639	0.6160		2,568.7643

Elk Grove SOIA FEIS - Sacramento County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1410	66.7684	19.4536	0.1573	3.9353	0.1914	4.1267	1.1324	0.1830	1.3154		16,660.7851	16,660.7851	1.0122		16,686.0889
Worker	5.7540	3.9504	39.7798	0.1054	11.8593	0.0800	11.9393	3.1458	0.0738	3.2196		10,494.6306	10,494.6306	0.2797		10,501.6224
Total	7.8950	70.7188	59.2334	0.2627	15.7946	0.2714	16.0660	4.2782	0.2568	4.5350		27,155.4158	27,155.4158	1.2918		27,187.7113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	2,553.3639	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	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Elk Grove SOIA FEIS - Sacramento County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.1410	66.7684	19.4536	0.1573	3.9353	0.1914	4.1267	1.1324	0.1830	1.3154		16,660.7851	16,660.7851	1.0122		16,686.0889
Worker	5.7540	3.9504	39.7798	0.1054	11.8593	0.0800	11.9393	3.1458	0.0738	3.2196		10,494.6306	10,494.6306	0.2797		10,501.6224
Total	7.8950	70.7188	59.2334	0.2627	15.7946	0.2714	16.0660	4.2782	0.2568	4.5350		27,155.4158	27,155.4158	1.2918		27,187.7113

3.6 Paving - 2021

Unmitigated Construction On-Site

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

Elk Grove SOIA FEIS - Sacramento County, Winter

3.6 Paving - 2021

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Elk Grove SOIA FEIS - Sacramento County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

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

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.8837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	143.1026	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Elk Grove SOIA FEIS - Sacramento County, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.1515	0.7906	7.9611	0.0211	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,100.2725	2,100.2725	0.0560		2,101.6717
Total	1.1515	0.7906	7.9611	0.0211	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,100.2725	2,100.2725	0.0560		2,101.6717

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.8837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	143.1026	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Elk Grove SOIA FEIS - Sacramento County, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.1515	0.7906	7.9611	0.0211	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,100.2725	2,100.2725	0.0560		2,101.6717
Total	1.1515	0.7906	7.9611	0.0211	2.3734	0.0160	2.3894	0.6296	0.0148	0.6443		2,100.2725	2,100.2725	0.0560		2,101.6717

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Elk Grove SOIA FEIS - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.3018	299.6646	775.7828	2.1617	194.9517	2.0155	196.9672	52.1155	1.8857	54.0012		219,119.6049	219,119.6049	11.4840		219,406.7047
Unmitigated	67.3018	299.6646	775.7828	2.1617	194.9517	2.0155	196.9672	52.1155	1.8857	54.0012		219,119.6049	219,119.6049	11.4840		219,406.7047

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	1,839.32	1,839.32	1839.32	5,087,084	5,087,084
General Light Industry	10,899.69	2,064.22	1063.38	22,768,451	22,768,451
Office Park	6,790.22	975.13	451.89	10,945,549	10,945,549
Regional Shopping Center	25,388.99	29,711.66	15007.45	34,266,725	34,266,725
Single Family Housing	171.36	178.38	155.16	436,363	436,363
Total	45,089.57	34,768.70	18,517.20	73,504,172	73,504,172

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

Elk Grove SOIA FEIS - Sacramento County, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
General Light Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Office Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Regional Shopping Center	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.42 49	36,452.42 49	0.6987	0.6683	36,669.04 34
NaturalGas Unmitigated	3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.42 49	36,452.42 49	0.6987	0.6683	36,669.04 34

Elk Grove SOIA FEIS - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	120303	1.2974	11.7944	9.9073	0.0708		0.8964	0.8964		0.8964	0.8964		14,153.2893	14,153.2893	0.2713	0.2595	14,237.3952
General Light Industry	153424	1.6546	15.0416	12.6349	0.0903		1.1432	1.1432		1.1432	1.1432		18,049.8559	18,049.8559	0.3460	0.3309	18,157.1172
Office Park	26015.5	0.2806	2.5505	2.1425	0.0153		0.1938	0.1938		0.1938	0.1938		3,060.6499	3,060.6499	0.0587	0.0561	3,078.8378
Regional Shopping Center	8829.31	0.0952	0.8656	0.7271	5.1900e-003		0.0658	0.0658		0.0658	0.0658		1,038.7428	1,038.7428	0.0199	0.0190	1,044.9155
Single Family Housing	1274.04	0.0137	0.1174	0.0500	7.5000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003		149.8870	149.8870	2.8700e-003	2.7500e-003	150.7777
Total		3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434

Elk Grove SOIA FEIS - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	120.303	1.2974	11.7944	9.9073	0.0708		0.8964	0.8964		0.8964	0.8964		14,153.2893	14,153.2893	0.2713	0.2595	14,237.3952
General Light Industry	153.424	1.6546	15.0416	12.6349	0.0903		1.1432	1.1432		1.1432	1.1432		18,049.8559	18,049.8559	0.3460	0.3309	18,157.1172
Office Park	26.0155	0.2806	2.5505	2.1425	0.0153		0.1938	0.1938		0.1938	0.1938		3,060.6499	3,060.6499	0.0587	0.0561	3,078.8378
Regional Shopping Center	8.82931	0.0952	0.8656	0.7271	5.1900e-003		0.0658	0.0658		0.0658	0.0658		1,038.7428	1,038.7428	0.0199	0.0190	1,044.9155
Single Family Housing	1.27404	0.0137	0.1174	0.0500	7.5000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003		149.8870	149.8870	2.8700e-003	2.7500e-003	150.7777
Total		3.3415	30.3695	25.4617	0.1823		2.3087	2.3087		2.3087	2.3087		36,452.4249	36,452.4249	0.6987	0.6683	36,669.0434

6.0 Area Detail

6.1 Mitigation Measures Area

Elk Grove SOIA FEIS - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667
Unmitigated	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

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	10.2172					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.8482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0828	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003		3.5448	3.5448	4.8800e-003		3.6667
Total	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

Elk Grove SOIA FEIS - Sacramento County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	10.2172					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	85.8482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0828	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003		3.5448	3.5448	4.8800e-003		3.6667
Total	96.1481	0.0209	1.8935	1.1000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003	0.0000	3.5448	3.5448	4.8800e-003	0.0000	3.6667

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Elk Grove SOIA FEIS - Sacramento County, Winter

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Elk Grove SOIA FEIS - Sacramento County, Annual

Elk Grove SOIA FEIS
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	594.59	1000sqft	13.65	594,594.00	0
Regional Shopping Center	594.59	1000sqft	13.65	594,594.00	0
General Heavy Industry	1,226.21	1000sqft	28.15	1,226,210.00	0
General Light Industry	1,563.80	1000sqft	35.90	1,563,800.00	0
Single Family Housing	18.00	Dwelling Unit	5.84	32,400.00	48

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assume 25% of the entire SOIA could be developed in a single year.

Grading -

Elk Grove SOIA FEIS - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	155.00	261.00
tblConstructionPhase	NumDays	110.00	261.00
tblConstructionPhase	NumDays	60.00	261.00
tblConstructionPhase	PhaseEndDate	12/28/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	2/24/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	5/20/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	3/17/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	7/27/2028	12/31/2021
tblConstructionPhase	PhaseEndDate	8/12/2021	12/31/2021
tblConstructionPhase	PhaseStartDate	7/28/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	3/18/2022	1/1/2021
tblConstructionPhase	PhaseStartDate	8/13/2021	1/1/2021
tblConstructionPhase	PhaseStartDate	2/25/2028	1/1/2021
tblConstructionPhase	PhaseStartDate	5/21/2021	1/1/2021
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00
tblLandUse	LandUseSquareFeet	594,590.00	594,594.00

2.0 Emissions Summary

Elk Grove SOIA FEIS - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	12.4939	12.4939
2	4-1-2021	6-30-2021	12.5833	12.5833
3	7-1-2021	9-30-2021	12.7216	12.7216
		Highest	12.7216	12.7216

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	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158
Energy	0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	21,843.6645	21,843.6645	0.8923	0.2713	21,946.8265
Mobile	10.4797	42.7688	107.5935	0.3222	27.4098	0.2904	27.7002	7.3485	0.2716	7.6200	0.0000	29,640.1951	29,640.1951	1.4814	0.0000	29,677.2302
Waste						0.0000	0.0000		0.0000	0.0000	944.7565	0.0000	944.7565	55.8335	0.0000	2,340.5942
Water						0.0000	0.0000		0.0000	0.0000	281.6558	1,148.7801	1,430.4358	1.0259	0.6242	1,642.0898
Total	28.6318	48.3139	112.4770	0.3555	27.4098	0.7129	28.1227	7.3485	0.6941	8.0426	1,226.4123	52,633.0416	53,859.4539	59.2336	0.8955	55,607.1565

Elk Grove SOIA FEIS - Sacramento County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158
Energy	0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	21,843.6645	21,843.6645	0.8923	0.2713	21,946.8265
Mobile	10.4797	42.7688	107.5935	0.3222	27.4098	0.2904	27.7002	7.3485	0.2716	7.6200	0.0000	29,640.1951	29,640.1951	1.4814	0.0000	29,677.2302
Waste						0.0000	0.0000		0.0000	0.0000	944.7565	0.0000	944.7565	55.8335	0.0000	2,340.5942
Water						0.0000	0.0000		0.0000	0.0000	281.6558	1,148.7801	1,430.4358	1.0259	0.6242	1,642.0898
Total	28.6318	48.3139	112.4770	0.3555	27.4098	0.7129	28.1227	7.3485	0.6941	8.0426	1,226.4123	52,633.0416	53,859.4539	59.2336	0.8955	55,607.1565

	ROG	NOx	CO	SO2	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

Elk Grove SOIA FEIS - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	12/31/2021	5	261	
2	Site Preparation	Site Preparation	1/1/2021	12/31/2021	5	261	
3	Grading	Grading	1/1/2021	12/31/2021	5	261	
4	Building Construction	Building Construction	1/1/2021	12/31/2021	5	261	
5	Paving	Paving	1/1/2021	12/31/2021	5	261	
6	Architectural Coating	Architectural Coating	1/1/2021	12/31/2021	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 652.5

Acres of Paving: 0

Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 5,968,797; Non-Residential Outdoor: 1,989,599; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Elk Grove SOIA FEIS - Sacramento 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

Elk Grove SOIA FEIS - Sacramento 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
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,559.00	654.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	312.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7102	443.7102	0.1249	0.0000	446.8324
Total	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7102	443.7102	0.1249	0.0000	446.8324

Elk Grove SOIA FEIS - Sacramento 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125
Total	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7097	443.7097	0.1249	0.0000	446.8319
Total	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7097	443.7097	0.1249	0.0000	446.8319

Elk Grove SOIA FEIS - Sacramento 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125
Total	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125

3.3 Site Preparation - 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5074	5.2849	2.7606	4.9600e-003		0.2668	0.2668		0.2455	0.2455	0.0000	436.3361	436.3361	0.1411	0.0000	439.8641
Total	0.5074	5.2849	2.7606	4.9600e-003	2.3577	0.2668	2.6245	1.2960	0.2455	1.5414	0.0000	436.3361	436.3361	0.1411	0.0000	439.8641

Elk Grove SOIA FEIS - Sacramento County, Annual

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1300e-003	5.3200e-003	0.0595	1.6000e-004	0.0173	1.2000e-004	0.0174	4.5900e-003	1.1000e-004	4.7000e-003	0.0000	14.7653	14.7653	3.9000e-004	0.0000	14.7750
Total	8.1300e-003	5.3200e-003	0.0595	1.6000e-004	0.0173	1.2000e-004	0.0174	4.5900e-003	1.1000e-004	4.7000e-003	0.0000	14.7653	14.7653	3.9000e-004	0.0000	14.7750

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3577	0.0000	2.3577	1.2960	0.0000	1.2960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5074	5.2849	2.7606	4.9600e-003		0.2668	0.2668		0.2455	0.2455	0.0000	436.3356	436.3356	0.1411	0.0000	439.8636
Total	0.5074	5.2849	2.7606	4.9600e-003	2.3577	0.2668	2.6245	1.2960	0.2455	1.5414	0.0000	436.3356	436.3356	0.1411	0.0000	439.8636

Elk Grove SOIA FEIS - Sacramento County, Annual

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1300e-003	5.3200e-003	0.0595	1.6000e-004	0.0173	1.2000e-004	0.0174	4.5900e-003	1.1000e-004	4.7000e-003	0.0000	14.7653	14.7653	3.9000e-004	0.0000	14.7750
Total	8.1300e-003	5.3200e-003	0.0595	1.6000e-004	0.0173	1.2000e-004	0.0174	4.5900e-003	1.1000e-004	4.7000e-003	0.0000	14.7653	14.7653	3.9000e-004	0.0000	14.7750

3.4 Grading - 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					1.1319	0.0000	1.1319	0.4693	0.0000	0.4693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5470	6.0552	4.0296	8.0900e-003		0.2591	0.2591		0.2384	0.2384	0.0000	711.1595	711.1595	0.2300	0.0000	716.9096
Total	0.5470	6.0552	4.0296	8.0900e-003	1.1319	0.2591	1.3910	0.4693	0.2384	0.7077	0.0000	711.1595	711.1595	0.2300	0.0000	716.9096

Elk Grove SOIA FEIS - Sacramento County, Annual

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0400e-003	5.9100e-003	0.0661	1.8000e-004	0.0192	1.3000e-004	0.0193	5.1000e-003	1.2000e-004	5.2200e-003	0.0000	16.4059	16.4059	4.3000e-004	0.0000	16.4167
Total	9.0400e-003	5.9100e-003	0.0661	1.8000e-004	0.0192	1.3000e-004	0.0193	5.1000e-003	1.2000e-004	5.2200e-003	0.0000	16.4059	16.4059	4.3000e-004	0.0000	16.4167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.1319	0.0000	1.1319	0.4693	0.0000	0.4693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5470	6.0552	4.0296	8.0900e-003		0.2591	0.2591		0.2384	0.2384	0.0000	711.1587	711.1587	0.2300	0.0000	716.9087
Total	0.5470	6.0552	4.0296	8.0900e-003	1.1319	0.2591	1.3910	0.4693	0.2384	0.7077	0.0000	711.1587	711.1587	0.2300	0.0000	716.9087

Elk Grove SOIA FEIS - Sacramento County, Annual

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0400e-003	5.9100e-003	0.0661	1.8000e-004	0.0192	1.3000e-004	0.0193	5.1000e-003	1.2000e-004	5.2200e-003	0.0000	16.4059	16.4059	4.3000e-004	0.0000	16.4167
Total	9.0400e-003	5.9100e-003	0.0661	1.8000e-004	0.0192	1.3000e-004	0.0193	5.1000e-003	1.2000e-004	5.2200e-003	0.0000	16.4059	16.4059	4.3000e-004	0.0000	16.4167

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

Elk Grove SOIA FEIS - Sacramento County, Annual

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2684	8.7307	2.3335	0.0208	0.4990	0.0241	0.5231	0.1442	0.0231	0.1673	0.0000	2,002.6212	2,002.6212	0.1145	0.0000	2,005.4838
Worker	0.7045	0.4604	5.1493	0.0142	1.4942	0.0105	1.5047	0.3974	9.6300e-003	0.4070	0.0000	1,278.8408	1,278.8408	0.0336	0.0000	1,279.6801
Total	0.9729	9.1911	7.4828	0.0350	1.9932	0.0346	2.0278	0.5416	0.0327	0.5743	0.0000	3,281.4620	3,281.4620	0.1481	0.0000	3,285.1638

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

Elk Grove SOIA FEIS - Sacramento County, Annual

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2684	8.7307	2.3335	0.0208	0.4990	0.0241	0.5231	0.1442	0.0231	0.1673	0.0000	2,002.6212	2,002.6212	0.1145	0.0000	2,005.4838
Worker	0.7045	0.4604	5.1493	0.0142	1.4942	0.0105	1.5047	0.3974	9.6300e-003	0.4070	0.0000	1,278.8408	1,278.8408	0.0336	0.0000	1,279.6801
Total	0.9729	9.1911	7.4828	0.0350	1.9932	0.0346	2.0278	0.5416	0.0327	0.5743	0.0000	3,281.4620	3,281.4620	0.1481	0.0000	3,285.1638

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1639	1.6859	1.9123	2.9700e-003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3064	261.3064	0.0845	0.0000	263.4192
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1639	1.6859	1.9123	2.9700e-003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3064	261.3064	0.0845	0.0000	263.4192

Elk Grove SOIA FEIS - Sacramento County, Annual

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125
Total	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1639	1.6859	1.9122	2.9700e-003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3061	261.3061	0.0845	0.0000	263.4189
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1639	1.6859	1.9122	2.9700e-003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3061	261.3061	0.0845	0.0000	263.4189

Elk Grove SOIA FEIS - Sacramento County, Annual

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125
Total	6.7800e-003	4.4300e-003	0.0495	1.4000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	12.3044	12.3044	3.2000e-004	0.0000	12.3125

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	18.6463					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0286	0.1993	0.2372	3.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3200	33.3200	2.2900e-003	0.0000	33.3771
Total	18.6749	0.1993	0.2372	3.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3200	33.3200	2.2900e-003	0.0000	33.3771

Elk Grove SOIA FEIS - Sacramento County, Annual

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1410	0.0921	1.0305	2.8300e-003	0.2990	2.0900e-003	0.3011	0.0795	1.9300e-003	0.0815	0.0000	255.9322	255.9322	6.7200e-003	0.0000	256.1002
Total	0.1410	0.0921	1.0305	2.8300e-003	0.2990	2.0900e-003	0.3011	0.0795	1.9300e-003	0.0815	0.0000	255.9322	255.9322	6.7200e-003	0.0000	256.1002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.6463					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0286	0.1993	0.2372	3.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3199	33.3199	2.2900e-003	0.0000	33.3771
Total	18.6749	0.1993	0.2372	3.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3199	33.3199	2.2900e-003	0.0000	33.3771

Elk Grove SOIA FEIS - Sacramento County, Annual

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1410	0.0921	1.0305	2.8300e-003	0.2990	2.0900e-003	0.3011	0.0795	1.9300e-003	0.0815	0.0000	255.9322	255.9322	6.7200e-003	0.0000	256.1002
Total	0.1410	0.0921	1.0305	2.8300e-003	0.2990	2.0900e-003	0.3011	0.0795	1.9300e-003	0.0815	0.0000	255.9322	255.9322	6.7200e-003	0.0000	256.1002

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Elk Grove SOIA FEIS - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	10.4797	42.7688	107.5935	0.3222	27.4098	0.2904	27.7002	7.3485	0.2716	7.6200	0.0000	29,640.1951	29,640.1951	1.4814	0.0000	29,677.2302
Unmitigated	10.4797	42.7688	107.5935	0.3222	27.4098	0.2904	27.7002	7.3485	0.2716	7.6200	0.0000	29,640.1951	29,640.1951	1.4814	0.0000	29,677.2302

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	1,839.32	1,839.32	1839.32	5,087,084	5,087,084
General Light Industry	10,899.69	2,064.22	1063.38	22,768,451	22,768,451
Office Park	6,790.22	975.13	451.89	10,945,549	10,945,549
Regional Shopping Center	25,388.99	29,711.66	15007.45	34,266,725	34,266,725
Single Family Housing	171.36	178.38	155.16	436,363	436,363
Total	45,089.57	34,768.70	18,517.20	73,504,172	73,504,172

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

Elk Grove SOIA FEIS - Sacramento County, Annual

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
General Light Industry	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Office Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Regional Shopping Center	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,808.5567	15,808.5567	0.7766	0.1607	15,875.8551
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15,808.5567	15,808.5567	0.7766	0.1607	15,875.8551
NaturalGas Mitigated	0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,035.1078	6,035.1078	0.1157	0.1106	6,070.9714
NaturalGas Unmitigated	0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,035.1078	6,035.1078	0.1157	0.1106	6,070.9714

Elk Grove SOIA FEIS - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	4.39106e+007	0.2368	2.1525	1.8081	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.2358	2,343.2358	0.0449	0.0430	2,357.1605
General Light Industry	5.59997e+007	0.3020	2.7451	2.3059	0.0165		0.2086	0.2086		0.2086	0.2086	0.0000	2,988.3561	2,988.3561	0.0573	0.0548	3,006.1144
Office Park	9.49567e+006	0.0512	0.4655	0.3910	2.7900e-003		0.0354	0.0354		0.0354	0.0354	0.0000	506.7249	506.7249	9.7100e-003	9.2900e-003	509.7361
Regional Shopping Center	3.2227e+006	0.0174	0.1580	0.1327	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.9755	171.9755	3.3000e-003	3.1500e-003	172.9975
Single Family Housing	465024	2.5100e-003	0.0214	9.1200e-003	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.8155	24.8155	4.8000e-004	4.5000e-004	24.9629
Total		0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,035.1078	6,035.1078	0.1157	0.1106	6,070.9714

Elk Grove SOIA FEIS - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	4.39106e+007	0.2368	2.1525	1.8081	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.2358	2,343.2358	0.0449	0.0430	2,357.1605
General Light Industry	5.59997e+007	0.3020	2.7451	2.3059	0.0165		0.2086	0.2086		0.2086	0.2086	0.0000	2,988.3561	2,988.3561	0.0573	0.0548	3,006.1144
Office Park	9.49567e+006	0.0512	0.4655	0.3910	2.7900e-003		0.0354	0.0354		0.0354	0.0354	0.0000	506.7249	506.7249	9.7100e-003	9.2900e-003	509.7361
Regional Shopping Center	3.2227e+006	0.0174	0.1580	0.1327	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.9755	171.9755	3.3000e-003	3.1500e-003	172.9975
Single Family Housing	465024	2.5100e-003	0.0214	9.1200e-003	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.8155	24.8155	4.8000e-004	4.5000e-004	24.9629
Total		0.6098	5.5424	4.6468	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,035.1078	6,035.1078	0.1157	0.1106	6,070.9714

Elk Grove SOIA FEIS - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.86139e+007	4,984.0513	0.2449	0.0507	5,005.2689
General Light Industry	2.37385e+007	6,356.2191	0.3123	0.0646	6,383.2781
Office Park	9.65621e+006	2,585.5470	0.1270	0.0263	2,596.5538
Regional Shopping Center	6.87945e+006	1,842.0430	0.0905	0.0187	1,849.8847
Single Family Housing	151988	40.6963	2.0000e-003	4.1000e-004	40.8696
Total		15,808.5567	0.7766	0.1607	15,875.8551

Elk Grove SOIA FEIS - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.86139e+007	4,984.0513	0.2449	0.0507	5,005.2689
General Light Industry	2.37385e+007	6,356.2191	0.3123	0.0646	6,383.2781
Office Park	9.65621e+006	2,585.5470	0.1270	0.0263	2,596.5538
Regional Shopping Center	6.87945e+006	1,842.0430	0.0905	0.0187	1,849.8847
Single Family Housing	151988	40.6963	2.0000e-003	4.1000e-004	40.8696
Total		15,808.5567	0.7766	0.1607	15,875.8551

6.0 Area Detail

6.1 Mitigation Measures Area

Elk Grove SOIA FEIS - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158
Unmitigated	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.6673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0103	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158
Total	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158

Elk Grove SOIA FEIS - Sacramento County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.6673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0103	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158
Total	17.5423	2.6100e-003	0.2367	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4020	0.4020	5.5000e-004	0.0000	0.4158

7.0 Water Detail

7.1 Mitigation Measures Water

EIk Grove SOIA FEIS - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,430.4358	1.0259	0.6242	1,642.0898
Unmitigated	1,430.4358	1.0259	0.6242	1,642.0898

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	283.561 / 0	478.6349	0.3639	0.2220	553.8935
General Light Industry	361.629 / 0	610.4088	0.4641	0.2831	706.3869
Office Park	105.679 / 64.7708	239.0803	0.1386	0.0834	267.3864
Regional Shopping Center	44.0428 / 26.994	99.6394	0.0578	0.0347	111.4363
Single Family Housing	1.17277 / 0.739357	2.6725	1.5400e-003	9.3000e-004	2.9867
Total		1,430.4358	1.0259	0.6242	1,642.0898

Elk Grove SOIA FEIS - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	283.561 / 0	478.6349	0.3639	0.2220	553.8935
General Light Industry	361.629 / 0	610.4088	0.4641	0.2831	706.3869
Office Park	105.679 / 64.7708	239.0803	0.1386	0.0834	267.3864
Regional Shopping Center	44.0428 / 26.994	99.6394	0.0578	0.0347	111.4363
Single Family Housing	1.17277 / 0.739357	2.6725	1.5400e-003	9.3000e-004	2.9867
Total		1,430.4358	1.0259	0.6242	1,642.0898

8.0 Waste Detail

8.1 Mitigation Measures Waste

Elk Grove SOIA FEIS - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	944.7565	55.8335	0.0000	2,340,594 2
Unmitigated	944.7565	55.8335	0.0000	2,340,594 2

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	1520.5	308.6478	18.2406	0.0000	764.6618
General Light Industry	1939.11	393.6218	23.2624	0.0000	975.1814
Office Park	552.97	112.2479	6.6337	0.0000	278.0895
Regional Shopping Center	624.32	126.7313	7.4896	0.0000	313.9715
Single Family Housing	17.28	3.5077	0.2073	0.0000	8.6901
Total		944.7565	55.8335	0.0000	2,340,594 2

Elk Grove SOIA FEIS - Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	1520.5	308.6478	18.2406	0.0000	764.6618
General Light Industry	1939.11	393.6218	23.2624	0.0000	975.1814
Office Park	552.97	112.2479	6.6337	0.0000	278.0895
Regional Shopping Center	624.32	126.7313	7.4896	0.0000	313.9715
Single Family Housing	17.28	3.5077	0.2073	0.0000	8.6901
Total		944.7565	55.8335	0.0000	2,340.5942

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

Elk Grove SOIA FEIS - Sacramento County, Annual

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation
