

Appendix E

**Air Quality, Energy, and
Greenhouse Gas Modeling Data**

Construction Emissions - Individual License

License Type	Land Use in CalEEMod	Individual License Building			PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e	Gasoline Consumption (gal)	Diesel Consumption (gal)
		Area (sq ft)	ROG (tons/year)	NOX (tons/year)							
Outdoor	Unrefrigerated Warehouse	44,500	0.4	0.7	0.8	5.9	0.8	3.0	113	724	5,578
Mixed-Light	Manufacturing	113,791	0.9	0.9	1.0	7.7	0.9	3.5	161	1,814	7,620
Indoor	Manufacturing	44,000	0.4	0.7	0.8	5.9	0.8	3.7	112	686	5,716
Nursery	Manufacturing	140,000	1.1	1.1	2.2	18.3	2.0	10.0	201	2,510	9,891
Processing	Unrefrigerated Warehouse	6,500	0.1	0.4	0.5	0.9	0.4	0.4	48	140	2,837
Manufacturing	Manufacturing	2,700	0.1	0.3	0.5	0.9	0.4	0.4	46	107	2,640
Testing	Research & Development	2,800	0.1	0.5	0.5	0.9	0.5	0.4	58	74	2,733
Distribution	Research & Development	1,000	0.0	0.3	0.5	0.9	0.4	0.4	43	41	2,640
Retail	Pharmacy w/o Drive Thru	2,400	0.1	0.3	0.5	0.9	0.4	0.4	46	107	2,733
Microbusiness	Manufacturing	1,500	0.0	0.3	0.5	0.9	0.4	0.4	45	74	2,720

Operational Emissions - Individual License

License Type	Land Use in CalEEMod	Individual License Building		Forklift Hours/Day	Back up generator (hrs/yr) per license	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e/year	Electricity	Natural Gas	Diesel
		Area (sq ft)	Water Consumption (gal)								Consumption (MWh/year)	Consumption (MMBTU/year)	Consumption (gal/year)
Outdoor	Unrefrigerated Warehouse	44,500	452,933	4		0.2	0.1	0.04	-	0.04	-	-	555
Mixed-Light	Manufacturing	113,791	241,130	4	200	0.5	0.1	0.04	-	0.04	-	-	2,864
Indoor	Manufacturing	44,000	1,943	-	200	0.2	0.03	0.00	-	0.00	-	-	2,309
Nursery	Manufacturing	140,000		6		0.7	0.1	0.04	-	0.04	-	-	833
Processing	Unrefrigerated Warehouse	6,500		6		0.0	0.1	0.04	-	0.04	-	27.8	833
Manufacturing	Manufacturing	2,700		6		0.0	0.1	0.04	-	0.04	-	35.3	833
Testing	Research & Development	2,800		6		0.0	0.1	0.04	-	0.04	-	36.6	833
Distribution	Research & Development	1,000		6		0.0	0.1	0.04	-	0.04	-	13.1	833
Retail	Pharmacy w/o Drive Thru	2,400		6		0.0	0.1	0.04	-	0.04	-	19.9	833
Microbusiness	Manufacturing	1,500		6		0.0	0.1	0.04	-	0.04	-	19.6	833

Note: Diesel generator hours based on SCAQMD guidance: <http://www.aqmd.gov/home/permits/emergency-generators>

CO2 injection to

increase foliage

82 kg CO2/kg yield

0.04 kg yield/sq ft

0.001 MTCO2/kg CO2

source: <https://www.adaptiveplastics.com/wp-content/uploads/Cannabis-production-carbon-footprint.pdf>

source: https://lcb.wa.gov/publications/Marijuana/BOTEC%20reports/5a_Cannabis_Yields-Final.pdf

Construction Offroad Equipment - Outdoor Cultivation

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	2	0.6	17
Site Preparation	Graders	1	8	187	0.41	2	0.6	37
Site Preparation	Rubber Tired Dozers	1	7	247	0.4	2	0.6	41
Grading	Rubber Tired Dozers	1	6	247	0.4	2	0.6	36
Grading	Tractors/Loaders/Backhoes	1	7	97	0.37	2	0.6	15
Grading	Graders	1	6	187	0.41	2	0.6	28
Building Construction	Generator Sets	1	8	84	0.74	114	0.6	1,701
Building Construction	Forklifts	1	6	89	0.2	114	0.6	365
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37	114	0.6	736
Building Construction	Welders	3	8.00	46	0.40	114	0.6	1,510
Paving	Cement and Mortar Mixers	1	6.00	9	0.56	6	0.6	5
Paving	Pavers	1	6.00	130	0.42	6	0.6	59
Paving	Rollers	1	7.00	80	0.38	6	0.6	38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37	6	0.6	52
Paving	Paving Equipment	1	8.00	132	0.36	6	0.6	68
Architectural Coating	Air Compressors	1	6.00	78	0.48	6	0.6	40
TOTAL								4,750

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Outdoor Cultivation

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	8	0	2	16	0	15.00	9.00	240	0	0.6	5	0
Grading	8	0	2	16	0	15.00	9.00	240.00	0.00	0.6	5	0
Building Construction	19	7	114	2166	798	15.00	9.00	32,490.00	7,182.00	0.6	713	828
Paving	13	0	6	78	0	15.00	9.00	1,170.00	0.00	0.6	26	0
Architectural Coating	4	0	6	24	0	15.00	9.00	360.00	0.00	0.6	8	0
Total								34,500.00	Worker VMT		724	828

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Mixed Light Cultivation

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Scrapers	1	8	367	0.48	2	0.6	85
Site Preparation	Graders	1	8	187	0.41	2	0.6	37
Site Preparation	Tractors/Loaders/Backhoes	1	7	97	0.37	2	0.6	15
Grading	Rubber Tired Dozers	1	6	247	0.4	2	0.6	36
Grading	Tractors/Loaders/Backhoes	2	7	97	0.37	2	0.6	30
Grading	Graders	1	8	187	0.41	2	0.6	37
Building Construction	Generator Sets	1	8	84	0.74	114	0.6	1,701
Building Construction	Forklifts	2	7	89	0.2	114	0.6	852
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37	114	0.6	736
Building Construction	Welders	3	8.00	46	0.40	114	0.6	1,510
Paving	Cement and Mortar Mixers	1	8.00	9	0.56	6	0.6	7
Paving	Pavers	1	8.00	130	0.42	6	0.6	79
Paving	Rollers	2	8.00	80	0.38	6	0.6	88
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37	6	0.6	52
Paving	Paving Equipment	1	8.00	132	0.36	6	0.6	68
Architectural Coating	Air Compressors	1	6.00	78	0.48	6	0.6	40
TOTAL								5,373

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Mixed Light Cultivation

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	8	0	2	16	0	15.00	9.00	240	0	0.6	5	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	48	19	114	5472	2,166	15.00	9.00	82,080.00	19,494.00	0.6	1,802	2,247
Paving	15	0	6	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	10	0	6	60	0	15.00	9.00	900.00	0.00	0.6	20	0
Total							TOTAL	84,870.00	Worker VMT		1,814	2,247

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Indoor Cultivation

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Scrapers	1	8	367	0.48	2	0.6	85
Site Preparation	Graders	1	8	187	0.41	2	0.6	37
Site Preparation	Tractors/Loaders/Backhoes	1	7	97	0.37	2	0.6	15
Grading	Rubber Tired Dozers	1	6	247	0.4	2	0.6	36
Grading	Tractors/Loaders/Backhoes	1	7	97	0.37	2	0.6	15
Grading	Graders	1	8	187	0.41	2	0.6	37
Building Construction	Generator Sets	1	8	84	0.74	114	0.6	1,701
Building Construction	Forklifts	1	7	89	0.2	114	0.6	426
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37	114	0.6	736
Building Construction	Welders	3	8.00	46	0.40	114	0.6	1,510
Paving	Cement and Mortar Mixers	1	8.00	9	0.56	6	0.6	7
Paving	Pavers	1	8.00	130	0.42	6	0.6	79
Paving	Rollers	1	8.00	80	0.38	6	0.6	44
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37	6	0.6	52
Paving	Paving Equipment	1	8.00	132	0.36	6	0.6	68
Architectural Coating	Air Compressors	1	6.00	78	0.48	6	0.6	40
TOTAL								4,888

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Indoor Cultivation

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	8	0	2	16	0	15.00	9.00	240	0	0.6	5	0
Grading	8	0	2	16	0	15.00	9.00	240.00	0.00	0.6	5	0
Building Construction	18	7	114	2052	798	15.00	9.00	30,780.00	7,182.00	0.6	676	828
Paving	13	0	6	78	0	15.00	9.00	1,170.00	0.00	0.6	26	0
Architectural Coating	4	0	6	24	0	15.00	9.00	360.00	0.00	0.6	8	0
Total							TOTAL	32,790.00	Worker VMT		686	828

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Nursery

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	2	0.6	142
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	2	0.6	69
Grading	Excavators	1	8	158	0.38	4	0.6	58
Grading	Rubber Tired Dozers	1	8	247	0.4	4	0.6	95
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37	4	0.6	103
Grading	Graders	1	8	187	0.41	4	0.6	74
Building Construction	Generator Sets	1	8	84	0.74	106	0.6	1,581
Building Construction	Forklifts	3	8	89	0.2	106	0.6	1,358
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	106	0.6	2,397
Building Construction	Welders	1	8.00	46	0.40	106	0.6	468
Paving	Cement and Mortar Mixers	2	6.00	9	0.56	8	0.6	15
Paving	Pavers	1	8.00	130	0.42	8	0.6	105
Paving	Rollers	2	6.00	80	0.38	8	0.6	88
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37	8	0.6	69
Paving	Paving Equipment	2	6.00	132	0.36	8	0.6	137
Architectural Coating	Air Compressors	1	6.00	78	0.48	8	0.6	54
TOTAL								6,812

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Nurseries

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	18	0	2	36	0	15.00	9.00	540	0	0.6	12	0
Grading	15	0	4	60	0	15.00	9.00	900.00	0.00	0.6	20	0
Building Construction	71	28	106	7526	2,968	15.00	9.00	112,890.00	26,712.00	0.6	2,479	3,079
Paving	20	0	8	160	0	15.00	9.00	2,400.00	0.00	0.6	53	0
Architectural Coating	14	0	8	112	0	15.00	9.00	1,680.00	0.00	0.6	37	0
Total							TOTAL	118,410.00	Worker VMT		2,510	3,079

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Processing

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	0.6	26
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
TOTAL								2,629

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Processing

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	4	2	100	400	200	15.00	9.00	6,000.00	1,800.00	0.6	132	207
Paving	18	0	5	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	1	0	5	5	0	15.00	9.00	75.00	0.00	0.6	2	0
Total							TOTAL	7,800.00	Worker VMT		140	207

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Manufacturing

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	0.6	26
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
TOTAL								2,629

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Manufacturing

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	3	0	100	300	10	15.00	9.00	4,500.00	93.06	0.6	99	11
Paving	18	1	5	90	5	15.00	9.00	1,350.00	45.00	0.6	30	5
Architectural Coating	1	0	5	5	0	15.00	9.00	75.00	0.00	0.6	2	0
Total								TOTAL	6,300.00	Worker VMT	107	11

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Testing

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	0.6	26
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
TOTAL								2,629

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Testing

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	2	1	100	200	100	15.00	9.00	3,000.00	900.00	0.6	66	104
Paving	18	0	5	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	-	0	5	0	0	15.00	9.00	0.00	0.00	0.6	-	0
Total								TOTAL	4,725.00	Worker VMT	74	104

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Distribution

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	0.6	26
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
TOTAL								2,629

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Distribution

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	1	0	100	100	10	15.00	9.00	1,500.00	93.42	0.6	33	11
Paving	18	0	5	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	-	0	5	0	0	15.00	9.00	0.00	0.00	0.6	-	0
Total							TOTAL	3,225.00	Worker VMT		41	11

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Retail

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	0.6	26
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
							TOTAL	2,629

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Retail

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	3	1	100	300	100	15.00	9.00	4,500.00	900.00	0.6	99	104
Paving	18	0	5	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	1	0	5	5	0	15.00	9.00	75.00	0.00	0.6	2	0
Total							TOTAL	6,300.00	Worker VMT		107	104

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Construction Offroad Equipment - Microbusiness

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Site Preparation	Graders	1	8	187	0.41	1	0.6	18
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	1	0.6	9
Grading	Rubber Tired Dozers	1	1	247	0.4	2	0.6	6
Grading	Tractors/Loaders/Backhoes	1	6	97	0.37	2	0.6	13
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	0.6	28
Building Construction	Forklifts	2	6	89	0.2	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Paving	Cement and Mortar Mixers	4	6.00	9	0.56	5	0.6	18
Paving	Pavers	1	7.00	130	0.42	5	0.6	57
Paving	Rollers	1	7.00	80	0.38	5	0.6	32
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37	5	0.6	38
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
							TOTAL	2,617

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT - Microbusiness

Phase Name	Daily Worker Trip	Daily Vendor Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Average Daily Factor (worker and vendor)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	5	0	1	5	0	15.00	9.00	75	0	0.6	2	0
Grading	10	0	2	20	0	15.00	9.00	300.00	0.00	0.6	7	0
Building Construction	2	1	100	200	100	15.00	9.00	3,000.00	900.00	0.6	66	104
Paving	18	0	5	90	0	15.00	9.00	1,350.00	0.00	0.6	30	0
Architectural Coating	0	0	5	0.392	0	15.00	9.00	5.88	0.00	0.6	0	0
Total							TOTAL	4,730.88	Worker VMT		74	104

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Operational Energy - Offroad Equipment

License Type	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Outdoor	Forklifts	1	4	89	0.2	260	0.6	555
Mixed-Light	Generator Sets	1	20	20	0.74	260	0.6	2,309
Mixed-Light	Forklifts	1	4	89	0.2	260	0.6	555
Indoor	Generator Sets	1	20	20	0.74	260	0.6	2,309
Noncultivation	Forklifts	1	6	89	0.20	260	0.6	833

Alternative 1

Modeling Assumptions

License Type	Land Use in CalEEMod	Total Sites	Acres/Number of Sites	Relocated Sites to be Constructed	Building Area (sq ft)	Full Time Employees	Harvest Employees	Harvests per Year	Water Consumption (gal)	Back up generator (hrs/yr) per license	Utility Vehicle Number	Utility Vehicle Hours/day
Existing		78										
Cultivation												
Outdoor	Unrefrigerated Warehouse		63	8	2,803,500	284	1,197		3	452,933	63	4
Mixed-Light	Manufacturing		13	10	1,479,283	364	-		4	241,130	13	4
Indoor	Manufacturing		2	-	88,000	35	-		4	1942.6	200	

Note: Diesel generator hours based on SCAQMD guidance:
<http://www.aqmd.gov/home/permits/emergency-generators>

Cumulative Construction Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e	Gasoline Consumption (gal)	Diesel Consumption (gal)
Cultivation									
Outdoor	3.4	5.8	6.6	47.1	6.0	23.8	903	5,791	44,621
Mixed-Light	9.2	9.1	9.9	77.2	9.1	35.1	1,608	18,141	76,198
Indoor	-	-	-	-	-	-	-	-	-
Total	12.6	15.0	16.5	124.3	15.2	58.9	2,511	23,932	120,819
YSAQMD Thresholds									

Cumulative Operational Emissions 2020

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e/year	Electricity Consumption (MWh/year)	Natural Gas Consumption (MMBTU/year)	Diesel Consumption (gal/year)
Cultivation										
Outdoor	13.4	4.9	2.7	-	2.4	-	2,729	12,476	-	34,988
Mixed-Light	7.0	1.3	0.5	-	0.5	-	6,706	11,768	-	37,234
Indoor	0.4	0.1	0.0	-	0.0	-	396	700	-	4,618
Total	20.88	6.25	3.20	-	2.94	-	9,831	24,943	-	76,839
YSAQMD Thresholds	10	10	80							

Alternative 2

Modeling Assumptions

License Type Existing	Land Use in CalEEMod	Total Sites	Cultivation	Relocated Sites to be Constructed	Acres Disturbed	Total Building Area (sq ft)	Individual License Building Area (sq ft)	Full Time Employees	Harvest Employees	Harvests per Year	Water Consumption (gal)	Forklift Number	Forklift Hours/Day	Back up generator (hrs/yr) per license	Notes
			Acres/Number of Sites												
Cultivation		132													132 total sites permitted - 78 already exist (no construction), construction of 62 sites
Outdoor	Unrefrigerated Warehouse		63	29	126	2,803,500		284	1,197	3	452,933	63	4		
Mixed-Light	Manufacturing		13	10	26	1,479,283		364	-	4	241,130	13	4	200	
Indoor	Manufacturing		2	-	4	88,000		35	-	4	1,943			200	
New															
Cultivation															
Outdoor	Unrefrigerated Warehouse		1		2	44,500	44,500	4	19	3	452,933	1	4		
Mixed-Light	Manufacturing		1		2	113,791	113,791	28	-	4	241,130	1	4	200	
Non-Cultivation															
Nurseries	Manufacturing	5				700,000	140,000	360	-			5	6		
Processing	Unrefrigerated Warehouse	5				32,500	6,500	13	4			5	6		
Manufacturing	Manufacturing	20				54,000	2,700	200	-			20	6		
Testing	Research & Development	5				14,000	2,800	30	-			5	6		
Distribution	Research & Development	10				10,000	1,000	20	-			10	6		
Retail	Pharmacy w/o Drive Thru	2				4,800	2,400	32	-			2	6		
Microbusiness	Manufacturing	5				7,500	1,500	45				5	6		

Note: Diesel generator hours
based on SCAQMD guidance:
<http://www.aqmd.gov/home/permits/emergency-generators>

Cumulative Construction Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e	Gasoline Consumption (gal)	Diesel Consumption (gal)
Cultivation									
Outdoor	12.6	21.9	24.6	176.6	22.7	89.3	3,387	21,718	167,329
Mixed-Light	10.1	10.1	10.9	84.9	10.0	38.6	1,769	19,955	83,818
Non-Cultivation									
Nurseries	5.6	5.6	11.0	91.3	10.1	49.9	1,005	12,552	49,456
Processing	0.4	1.8	2.3	4.3	2.2	2.2	239	700	14,185
Manufacturing	1.1	7.0	9.4	17.2	8.9	8.9	915	2,141	52,804
Testing	0.3	2.4	2.6	4.3	2.4	2.2	290	371	13,666
Distribution	0.4	3.4	4.7	8.6	4.5	4.4	432	412	26,402
Retail	0.1	0.7	0.9	1.7	0.9	0.9	91	214	5,466
Microbusiness	0.2	1.7	2.3	4.3	2.2	2.2	226	371	13,601
Total	30.9	54.6	69	393	64	199	8,355	58,432	426,728
YSAQMD Thresholds	10	10	80						

Cumulative Operational Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust(lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e/year	Electricity Consumption (MWh/year)	Natural Gas Consumption (MMBTU/year)	Diesel Consumption (gal/year)
Cultivation										
Outdoor	13.6	4.9	2.7	-	2.5	-	2,772	12,674	-	35,543
Mixed-Light	7.6	1.4	0.6	-	0.5	-	7,222	12,673	-	40,098
Indoor	0.4	0.1	0.0	-	0.0	-	396	700	-	4,618
Non-Cultivation										
Nurseries	3.3	0.5	0.2	-	0.2	-	1,209	5,619	-	4,165
Processing	0.2	0.4	0.2	-	0.2	-	92	150	139	4,165
Manufacturing	0.4	1.6	0.9	-	0.8	-	304	458	706	16,661
Testing	0.1	0.4	0.2	-	0.2	-	76	116	183	4,165
Distribution	0.1	0.8	0.4	-	0.4	-	111	82	131	8,330
Retail	0.0	0.2	0.1	-	0.1	-	31	55	40	1,666
Microbusiness	0.1	0.4	0.2	-	0.2	-	62	66	98	4,165
Total	25.9	10.6	5.5	-	5.0	-	12,277	32,592	1,296	123,577
YSAQMD Thresholds	10	10	80							

Cumulative Operational Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e/year	Electricity Consumption (MWh/year)	Natural Gas Consumption (MMBTU/year)	Diesel Consumption (gal/year)
Cultivation										
Outdoor	27.3	9.9	5.4	-	5.0	-	5,545	25,347	-	71,086
Mixed-Light	14.6	2.8	1.1	-	1.0	-	13,928	24,440	-	77,332
Indoor	1.1	0.1	0.0	-	0.0	-	991	1,750	-	11,544
Non-Cultivation										
Nurseries	6.6	1.0	0.4	-	0.4	-	2,418	11,238	-	8,330
Processing	0.4	0.8	0.4	-	0.4	-	185	299	278	8,330
Manufacturing	0.9	3.1	1.7	-	1.6	-	608	915	1,411	33,322
Testing	0.2	0.8	0.4	-	0.4	-	153	231	366	8,330
Distribution	0.3	1.5	0.8	-	0.8	-	222	165	261	16,661
Retail	0.1	0.3	0.2	-	0.2	-	63	111	80	3,332
Microbusiness	0.2	0.8	0.4	-	0.4	-	124	132	196	8,330
Total	51.5	21.2	10.9	-	10.1	-	24,236	64,628	2,592	246,599
YSAQMD Thresholds	10	10	80							

Alternative 4

Modeling Assumptions

License Type	Land Use in CalEEMod	Total Sites	Cultivation Acres/Number of Sites	Acres Disturbed	Total Building Area (sq ft)	Individual License Building Area (sq ft)	Full Time Employees	New Full Time Employees	Harvest Employees	Harvests per Year	Water Consumption (gal)	Forklift Number	Forklift Hours/Day	Back up generator (hrs/yr) per license
Existing		80												
Cultivation														
Outdoor	Unrefrigerated Warehouse		-		-		-		-	-				
Mixed-Light	Manufacturing		68	136	7,737,788		1,904	1,540	-	4	16,396,822	68	4	200
Indoor	Manufacturing		12	24	528,000		211	176	-	4	530			200
New														
Non-Cultivation														
Nurseries	Manufacturing	5			700,000	140,000	360	360	-			5	6	
Processing	Unrefrigerated Warehouse	5			32,500	6,500	13	13	4			5	6	
Manufacturing	Manufacturing	20			54,000	2,700	200	200	-			20	6	
Testing	Research & Development	5			14,000	2,800	30	30	-			5	6	
Distribution	Research & Development	10			10,000	1,000	20	20	-			10	6	
Retail	Pharmacy w/o Drive Thru	2			4,800	2,400	32	32	-			2	6	
Microbusiness	Manufacturing	5			7,500	1,500	45	45	-			5	6	

Note: Diesel generator hours based on SCAQMD guidance: <http://www.aqmd.gov/home/permits/emergency-generators>

Cumulative Construction Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e	Consumption (gal)	Diesel Consumption (gal)
Cultivation									
Mixed Light - 65 converted from outdoor	59.9	59.4	64.4	501.9	59.3	228.2	10,453	117,917	495,289
Indoor - 12 converted from outdoor	5.0	8.8	9.9	70.6	9.1	44.8	1,348	8,237	68,587
Non-Cultivation									
Nurseries	5.6	5.6	11.0	91.3	10.1	49.9	1,005	12,552	49,456
Processing	0.4	1.8	2.3	4.3	2.2	2.2	239	700	14,185
Manufacturing	1.1	7.0	9.4	17.2	8.9	8.9	915	2,141	52,804
Testing	0.3	2.4	2.6	4.3	2.4	2.2	290	371	13,666
Distribution	0.4	3.4	4.7	8.6	4.5	4.4	432	412	26,402
Retail	0.1	0.7	0.9	1.7	0.9	0.9	91	214	5,466
Microbusiness	0.2	1.7	2.3	4.3	2.2	2.2	226	371	13,601
Total	73.1	90.9	108	704	100	344	15,000	142,913	739,456
YSAQMD Thresholds	10	10	80						

Cumulative Operational Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	Total MTCO2e/year	Electricity Consumption (MWh/year)	Natural Gas Consumption (MMBTU/year)	Diesel Consumption (gal/year)
Cultivation										
Mixed-Light	36.7	7.0	2.8	-	2.6	-	35,077	61,554	-	194,763
Indoor	2.5	0.3	0.0	-	0.0	-	2,379	4,200	-	27,706
Non-Cultivation										
Nurseries	3.3	0.5	0.2	-	0.2	-	1,209	5,619	-	4,165
Processing	0.2	0.4	0.2	-	0.2	-	92	150	139	4,165
Manufacturing	0.4	1.6	0.9	-	0.8	-	304	458	706	16,661
Testing	0.1	0.4	0.2	-	0.2	-	76	116	183	4,165
Distribution	0.1	0.8	0.4	-	0.4	-	111	82	131	8,330
Retail	0.0	0.2	0.1	-	0.1	-	31	55	40	1,666
Microbusiness	0.1	0.4	0.2	-	0.2	-	62	66	98	4,165
Total	43.6	11.5	5.1	-	4.6	-	39,280	72,233	1,198	261,621
YSAQMD Thresholds	10	10	80							

Alternative 5

Modeling Assumptions

License Type	Land Use in CalEEMod	Total Sites	Cultivation Acres/Number of Sites	Relocated Sites to be Constructed	Acres Disturbed	Total Building Area (sq ft)	Individual License Building Area (sq ft)	Full Time Employees	Harvest Employees	Harvests per Year	Water Consumption (gal)	Forklift Number	Forklift Hours/Day	Back up generator (hrs/yr) per license
Existing		80												
Cultivation														
Outdoor	Unrefrigerated Warehouse		63	29	126	2,803,500		284	1,197	3	28,534,772	63	4	
Mixed-Light	Manufacturing		13	10	26	1,479,283		364	-	4	3,134,687	13	4	200
Indoor	Manufacturing		2	-	4	88,000		35	-	4	883			200
New														
Cultivation														
Outdoor	Unrefrigerated Warehouse		1		2	44,500	44,500	4	19	3	452,933	1	4	
Mixed-Light	Manufacturing		1		2	113,791	113,791	28	-	4	241,130	1	4	200
Non-Cultivation														
Nurseries	Manufacturing	5				700,000	140,000	360	-			5	6	
Processing	Unrefrigerated Warehouse	5				32,500	6,500	13	4			5	6	
Manufacturing	Manufacturing	20				54,000	2,700	200	-			20	6	
Testing	Research & Development	5				14,000	2,800	30	-			5	6	
Distribution	Research & Development	10				10,000	1,000	20	-			10	6	
Microbusiness	Manufacturing	5				7,500	1,500	45	-			5	6	

Note: Diesel generator hours based on SCAQMD guidance:
<http://www.aqmd.gov/home/permits/emergency-generators>

Cumulative Construction Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e	Gasoline Consumption (gal)	Consumption (gal)
2021									
Cultivation									
Outdoor	12.6	21.9	24.6	176.6	22.7	89.3	3,387	21,718	167,329
Mixed-Light	10.1	10.1	10.9	84.9	10.0	38.6	1,769	19,955	83,818
Non-Cultivation									
Nurseries	5.6	5.6	11.0	91.3	10.1	49.9	1,005	12,552	49,456
Processing	0.4	1.8	2.3	4.3	2.2	2.2	239	700	14,185
Manufacturing	1.1	7.0	9.4	17.2	8.9	8.9	915	2,141	52,804
Testing	0.3	2.4	2.6	4.3	2.4	2.2	290	371	13,666
Distribution	0.4	3.4	4.7	8.6	4.5	4.4	432	412	26,402
Microbusiness	0.2	1.7	2.3	4.3	2.2	2.2	226	371	13,601
Total	30.8	53.9	68	392	63	198	8,263	58,218	421,261
YSAQMD Thresholds	10	10	80						

Cumulative Operational Emissions

License Type	ROG (tons/year)	NOX (tons/year)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	MTCO2e/year	Electricity Consumption (MWh/year)	Natural Gas Consumption (MMBTU/year)	Diesel Consumption (gal/year)
Cultivation										
Outdoor	13.6	4.9	2.7	-	2.5	-	2,772	12,674	-	35,543
Mixed-Light	7.6	1.4	0.6	-	0.5	-	7,222	12,673	-	40,098
Indoor	0.4	0.1	0.0	-	0.0	-	396	700	-	4,618
Non-Cultivation										
Nurseries	3.3	0.5	0.2	-	0.2	-	1,209	5,619	-	4,165
Processing	0.2	0.4	0.2	-	0.2	-	92	150	139	4,165
Manufacturing	0.4	1.6	0.9	-	0.8	-	304	458	706	16,661
Testing	0.1	0.4	0.2	-	0.2	-	76	116	183	4,165
Distribution	0.1	0.8	0.4	-	0.4	-	111	82	131	8,330
Microbusiness	0.1	0.4	0.2	-	0.2	-	62	66	98	4,165
Total	25.9	10.5	5.4	-	5.0	-	12,245	32,536	1,256	121,911
YSAQMD Thresholds	10	10	80							

Construction Schedule Adjustment

Assumed all cultivation and non-cultivation sites are constructed in 6 months; no demolition.

Outdoor Cultivation			
Phase	Default CalEEMod Days	Adjusted CalEEMod Days	
Site Prep	3	2	
Grading	4	2	
Building	200	114	
Paving	10	6	
Arch Coating	10	6	
Total	227	129	

Mixed Light Cultivation			
Phase	Default CalEEMod Days	Adjusted CalEEMod Days	
Site Prep	3	2	
Grading	6	3	
Building	220	114	
Paving	10	5	
Arch Coating	10	5	
Total	249	129	

Indoor Cultivation			
Phase	Default CalEEMod Days		
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		

Nursery			
Phase	Default CalEEMod Days	Adjusted CalEEMod Days	Parking Spaces Required
Site Prep	5	2	
Grading	8	4	
Building	230	106	
Paving	18	8	
Arch Coating	18	8	
Total	279	129	72

Processing			
Phase	Default CalEEMod Days		Parking Spaces Required
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		7

Distribution			
Phase	Default CalEEMod Days		Parking Spaces Required
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		2

Retail			
Phase	Default CalEEMod Days		Parking Spaces Required
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		16

Microbusiness			
Phase	Default CalEEMod Days		Parking Spaces Required
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		9

Manufacturing			
Phase	Default CalEEMod Days		Parking Spaces
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		10

Testing			
Phase	Default CalEEMod Days		Parking Spaces
Site Prep	1		
Grading	2		
Building	100		
Paving	5		
Arch Coating	5		
Total	113		6

Start Date

1/1/2021

End Date

6/30/2021

Total Work Days - includes 5 holidays

129

Parking spaces based on number of employees

EMFAC Output and Construction MPG Calculation

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: YOLO

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_TOTA	CO_TOTEX	NOx_TOTE	CO2_TOTE	CH4_TOTE	PM10_TOT	PM2_5_TCN	NO2_TOTE	
YOLO	2020	LDT2	Aggregate	Aggregate	GAS	32235.99686	1171137.93	149586.74	0.023551437		0	0.068935	0.092486	0.015334	0.230052	1.782351	0.191146	472.8309	0.019915	0.060027	0.024989	0.016478
YOLO	2020	LDT2	Aggregate	Aggregate	DSL	165.2498139	7283.540884	813.75617	0.00010746		0	0	0.000107	0	0.000107	0.000865	0.000365	2.340449	4.99E-06	0.000403	0.000185	0.000368
YOLO	2020	LDT2	Aggregate	Aggregate	ELEC	138.7147342	4614.625062	702.97933	0		0	0	0	0	3.62E-06	8.51E-06	0	0	0	0.000228	9.03E-05	0

Region	CalYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per	Diesel miles per
Yolo	2020	LDA	Aggregate	Aggregate	GAS	82,653	3,560,241	387,486	118.1898687	0.00	30.12	27.33	5.20
Yolo	2020	LDT1	Aggregate	Aggregate	GAS	10,539	360,016	47,598	14.1	0.00	25.59		
Yolo	2020	LDT2	Aggregate	Aggregate	GAS	32,236	1,171,138	149,587	49.9	0.00	23.47		
Yolo	2020	T7 tractor	Aggregate	Aggregate	DSL	89	6,224	400	0.00	1.20	5.20		

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC Output and Operational Mobile-Source Emission Factors

calendar_		vehicle_cl			g/mi	g/mi	g/mi	g/mi	g/mi	g/mi	g/mi	
year	sub_area	ass	fuel	VMT	ROG	NOx	PM10	PM2.5	CO2	CH4	N2O	fuel
2022	YOLO	LDA	Gas	3727942	0.253388	0.233802	0.003268	0.003004	319.0892	0.057183	0.03145	116.9643
2022	YOLO	LDA	Dsl	44817.29	0.013348	0.096443	0.007278	0.006963	205.5443	0.00062	0.032309	0.904993
2022	YOLO	LDT1	Gas	368733.1	0.447026	0.389903	0.004518	0.004154	376.983	0.087544	0.038421	13.70588
2022	YOLO	LDT1	Dsl	250.376	0.121056	1.089478	0.096758	0.092573	458.4463	0.005623	0.072061	0.011277
2022	YOLO	LDT2	Gas	1200982	0.369921	0.391931	0.003292	0.003027	405.9957	0.078762	0.040838	47.96519
2022	YOLO	LDT2	Dsl	8717.763	0.012187	0.037286	0.004605	0.004406	276.5342	0.000566	0.043467	0.236836
CO2e												
		LDA			0.250537	0.232171	0.003315	0.003051	317.7404	0.056511	0.03146	328.5282
		LDT1			0.446805	0.390377	0.004581	0.004214	377.0383	0.087489	0.038444	390.6817
		LDT2			0.367343	0.389375	0.003301	0.003037	405.0627	0.078198	0.040857	419.193
Default Fleet Mix in CalEEMod												
		LDA		0.492305								
		LDT1		0.039568								
		LDT2		0.208718								
Weighted Average Fleet Mix												
		LDA		66%								
		LDT1		5%								
		LDT2		28%								
Weighted Emission Factors												
					0.293942	0.284928	0.003379	0.003109	345.5183	0.064278	0.034481	357.4007

Existing Agricultural GHG Emissions Factor

	MT CO ₂ e/yr	Total Acres	Source
Land Use Agricultural Emissions	232,569	544,909	2016 GHG Inventory
Off-Road Equipment	71,638		2016 GHG Inventory
Building Energy	16,560		2016 GHG Inventory
Water	28,590		EIR Hydro Section
MTCO ₂ e/Acre	0.64		

Source: 2016 Yolo County GHG Emissions Inventory;
<https://www.yolocounty.org/Home/ShowDocument?id=10862>

Water-Related Emissions	From Hydrology section
Off-Road Ag Equipment Emissions	From 2016 GHG Inventory
Building Energy	From 2016 GHG Inventory

Average AF/Acre 2015	2.71
kWh/AF	145
Total MWh/acre	0.39295
MTCO ₂ e/acre	0.05

Assumptions

lb/g	0.002205
ton/lb	0.0005
MT/lb	0.000454

Outdoor Cultivation - Yolo County, Summer

Outdoor Cultivation
Yolo County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	44.50	1000sqft	1.02	44,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Outdoor Cultivation - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per outdoor license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	200.00	114.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	PhaseEndDate	12/9/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	11/11/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	2/5/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	11/25/2020	6/22/2020
tblConstructionPhase	PhaseEndDate	1/30/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	11/26/2020	6/23/2020
tblConstructionPhase	PhaseStartDate	2/6/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	1/31/2020	1/3/2020

Outdoor Cultivation - Yolo County, Summer

tblConstructionPhase	PhaseStartDate	11/12/2020	6/13/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	1/1/2020
tblEnergyUse	T24E	0.50	0.35
tblEnergyUse	T24NG	6.11	0.00
tblGrading	AcresOfGrading	0.75	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	10,290,625.00	452,933.00

2.0 Emissions Summary

Outdoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	103.3921	18.3708	12.5195	0.0223	30.9898	0.8215	31.6246	4.0341	0.7558	4.7899	0.0000	2,050.5927	2,050.5927	0.5416	0.0000	2,056.8723
Maximum	103.3921	18.3708	12.5195	0.0223	30.9898	0.8215	31.6246	4.0341	0.7558	4.7899	0.0000	2,050.5927	2,050.5927	0.5416	0.0000	2,056.8723

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	103.3921	18.3708	12.5195	0.0223	5.8861	0.8215	6.7076	2.9767	0.7558	3.7325	0.0000	2,050.5927	2,050.5927	0.5416	0.0000	2,056.8723
Maximum	103.3921	18.3708	12.5195	0.0223	5.8861	0.8215	6.7076	2.9767	0.7558	3.7325	0.0000	2,050.5927	2,050.5927	0.5416	0.0000	2,056.8723

	ROG	NOx	CO	SO2	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	81.01	0.00	78.79	26.21	0.00	22.07	0.00	0.00	0.00	0.00	0.00	0.00

Outdoor Cultivation - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Total	1.1872	0.5926	0.5914	7.7000e-004	0.0000	0.0421	0.0421	0.0000	0.0387	0.0387		74.3952	74.3952	0.0241	0.0000	74.9973

Outdoor Cultivation - Yolo County, Summer

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	lb/day										lb/day					
Area	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Total	1.1872	0.5926	0.5914	7.7000e-004	0.0000	0.0421	0.0421	0.0000	0.0387	0.0387		74.3952	74.3952	0.0241	0.0000	74.9973

	ROG	NOx	CO	SO2	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**

Outdoor Cultivation - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 66,750; Non-Residential Outdoor: 22,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Outdoor Cultivation - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	19.00	7.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

Outdoor Cultivation - Yolo County, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090		1,667.4119	1,667.4119	0.5393		1,680.8937

Outdoor Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937

Outdoor Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.718 3	1,365.718 3	0.4417		1,376.760 9
Total	1.3498	15.0854	6.4543	0.0141	5.3119	0.6844	5.9963	2.5686	0.6296	3.1982		1,365.718 3	1,365.718 3	0.4417		1,376.760 9

Outdoor Cultivation - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.718 3	1,365.718 3	0.4417		1,376.760 9
Total	1.3498	15.0854	6.4543	0.0141	5.3119	0.6844	5.9963	2.5686	0.6296	3.1982	0.0000	1,365.718 3	1,365.718 3	0.4417		1,376.760 9

Outdoor Cultivation - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155		1,582.0673	1,582.0673	0.2360		1,587.9659
Total	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155		1,582.0673	1,582.0673	0.2360		1,587.9659

Outdoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0262	0.8703	0.1543	2.3600e-003	5.6187	4.2500e-003	5.6229	0.5712	4.0700e-003	0.5753		247.1439	247.1439	9.7600e-003		247.3880
Worker	0.1005	0.0579	0.7636	2.2200e-003	25.3711	1.3300e-003	25.3724	2.5659	1.2200e-003	2.5671		221.3815	221.3815	5.4700e-003		221.5184
Total	0.1268	0.9282	0.9179	4.5800e-003	30.9898	5.5800e-003	30.9954	3.1372	5.2900e-003	3.1425		468.5254	468.5254	0.0152		468.9064

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155	0.0000	1,582.0673	1,582.0673	0.2360		1,587.9659
Total	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155	0.0000	1,582.0673	1,582.0673	0.2360		1,587.9659

Outdoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0262	0.8703	0.1543	2.3600e-003	0.0557	4.2500e-003	0.0600	0.0161	4.0700e-003	0.0202		247.1439	247.1439	9.7600e-003		247.3880
Worker	0.1005	0.0579	0.7636	2.2200e-003	0.2054	1.3300e-003	0.2067	0.0547	1.2200e-003	0.0559		221.3815	221.3815	5.4700e-003		221.5184
Total	0.1268	0.9282	0.9179	4.5800e-003	0.2611	5.5800e-003	0.2667	0.0708	5.2900e-003	0.0761		468.5254	468.5254	0.0152		468.9064

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246

Outdoor Cultivation - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0396	0.5224	1.5200e-003	17.3592	9.1000e-004	17.3601	1.7556	8.4000e-004	1.7565		151.4716	151.4716	3.7500e-003		151.5652
Total	0.0688	0.0396	0.5224	1.5200e-003	17.3592	9.1000e-004	17.3601	1.7556	8.4000e-004	1.7565		151.4716	151.4716	3.7500e-003		151.5652

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.946 1	1,296.946 1	0.4111		1,307.224 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.946 1	1,296.946 1	0.4111		1,307.224 6

Outdoor Cultivation - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0396	0.5224	1.5200e-003	0.1405	9.1000e-004	0.1415	0.0374	8.4000e-004	0.0383		151.4716	151.4716	3.7500e-003		151.5652
Total	0.0688	0.0396	0.5224	1.5200e-003	0.1405	9.1000e-004	0.1415	0.0374	8.4000e-004	0.0383		151.4716	151.4716	3.7500e-003		151.5652

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	103.1288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	103.3709	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Outdoor Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0212	0.0122	0.1608	4.7000e-004	5.3413	2.8000e-004	5.3416	0.5402	2.6000e-004	0.5405		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0212	0.0122	0.1608	4.7000e-004	5.3413	2.8000e-004	5.3416	0.5402	2.6000e-004	0.5405		46.6066	46.6066	1.1500e-003		46.6354

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	103.1288					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	103.3709	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Outdoor Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0212	0.0122	0.1608	4.7000e-004	0.0432	2.8000e-004	0.0435	0.0115	2.6000e-004	0.0118		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0212	0.0122	0.1608	4.7000e-004	0.0432	2.8000e-004	0.0435	0.0115	2.6000e-004	0.0118		46.6066	46.6066	1.1500e-003		46.6354

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Outdoor Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Unrefrigerated Warehouse-No Rail	15.00	8.00	9.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Outdoor Cultivation - Yolo County, Summer

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Outdoor Cultivation - Yolo 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					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Outdoor Cultivation - Yolo County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104
Unmitigated	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3000e-004	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104
Total	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104

Outdoor Cultivation - Yolo County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3000e-004	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104
Total	1.1223	4.0000e-005	4.5600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.7400e-003	9.7400e-003	3.0000e-005		0.0104

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
Forklifts	1	4.00	260	89	0.20	Diesel

Outdoor Cultivation - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Total	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Outdoor Cultivation - Yolo County, Annual

Outdoor Cultivation
Yolo County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	44.50	1000sqft	1.02	44,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Outdoor Cultivation - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per outdoor license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	200.00	114.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	PhaseEndDate	12/9/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	11/11/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	2/5/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	11/25/2020	6/22/2020
tblConstructionPhase	PhaseEndDate	1/30/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	11/26/2020	6/23/2020
tblConstructionPhase	PhaseStartDate	2/6/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	1/31/2020	1/3/2020

Outdoor Cultivation - Yolo County, Annual

tblConstructionPhase	PhaseStartDate	11/12/2020	6/13/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	1/1/2020
tblEnergyUse	T24E	0.50	0.35
tblEnergyUse	T24NG	6.11	0.00
tblGrading	AcresOfGrading	0.75	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	10,290,625.00	452,933.00

2.0 Emissions Summary

Outdoor Cultivation - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4190	0.7309	0.7559	1.3500e-003	1.5943	0.0394	1.6337	0.1661	0.0384	0.2045	0.0000	112.5369	112.5369	0.0151	0.0000	112.9136
Maximum	0.4190	0.7309	0.7559	1.3500e-003	1.5943	0.0394	1.6337	0.1661	0.0384	0.2045	0.0000	112.5369	112.5369	0.0151	0.0000	112.9136

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4190	0.7309	0.7559	1.3500e-003	0.0262	0.0394	0.0657	9.6300e-003	0.0384	0.0480	0.0000	112.5368	112.5368	0.0151	0.0000	112.9135
Maximum	0.4190	0.7309	0.7559	1.3500e-003	0.0262	0.0394	0.0657	9.6300e-003	0.0384	0.0480	0.0000	112.5368	112.5368	0.0151	0.0000	112.9135

	ROG	NOx	CO	SO2	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	98.35	0.00	95.98	94.20	0.00	76.51	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.4484	0.4484
2	4-1-2020	6-30-2020	0.6855	0.6855
		Highest	0.6855	0.6855

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	26.0486	26.0486	2.6000e-003	5.4000e-004	26.2743
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Waste						0.0000	0.0000		0.0000	0.0000	8.4911	0.0000	8.4911	0.5018	0.0000	21.0364
Water						0.0000	0.0000		0.0000	0.0000	0.1437	0.3224	0.4661	0.0148	3.6000e-004	0.9417
Total	0.2132	0.0770	0.0767	1.0000e-004	0.0000	5.4700e-003	5.4700e-003	0.0000	5.0300e-003	5.0300e-003	8.6348	35.1443	43.7791	0.5220	9.0000e-004	57.0967

Outdoor Cultivation - Yolo 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	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	13.0243	13.0243	1.3000e-003	2.7000e-004	13.1371
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Waste						0.0000	0.0000		0.0000	0.0000	8.4911	0.0000	8.4911	0.5018	0.0000	21.0364
Water						0.0000	0.0000		0.0000	0.0000	0.1437	0.3224	0.4661	0.0148	3.6000e-004	0.9417
Total	0.2132	0.0770	0.0767	1.0000e-004	0.0000	5.4700e-003	5.4700e-003	0.0000	5.0300e-003	5.0300e-003	8.6348	22.1201	30.7549	0.5207	6.3000e-004	43.9596

	ROG	NOx	CO	SO2	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	37.06	29.75	0.25	30.00	23.01

3.0 Construction Detail**Construction Phase**

Outdoor Cultivation - Yolo County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 66,750; Non-Residential Outdoor: 22,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	19.00	7.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	1.6300e-003	0.0184	7.7100e-003	2.0000e-005	5.8000e-003	8.2000e-004	6.6200e-003	2.9500e-003	7.6000e-004	3.7100e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

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3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	1.6300e-003	0.0184	7.7100e-003	2.0000e-005	5.8000e-003	8.2000e-004	6.6200e-003	2.9500e-003	7.6000e-004	3.7100e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

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3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0151	6.4500e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.3000e-004	6.3000e-004	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490
Total	1.3500e-003	0.0151	6.4500e-003	1.0000e-005	5.3100e-003	6.8000e-004	5.9900e-003	2.5700e-003	6.3000e-004	3.2000e-003	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490

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3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0151	6.4500e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.3000e-004	6.3000e-004	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490
Total	1.3500e-003	0.0151	6.4500e-003	1.0000e-005	5.3100e-003	6.8000e-004	5.9900e-003	2.5700e-003	6.3000e-004	3.2000e-003	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490

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3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8080	81.8080	0.0122	0.0000	82.1130
Total	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8080	81.8080	0.0122	0.0000	82.1130

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0507	9.3800e-003	1.3000e-004	0.2733	2.4000e-004	0.2735	0.0279	2.3000e-004	0.0281	0.0000	12.6548	12.6548	5.3000e-004	0.0000	12.6680
Worker	5.1400e-003	3.6600e-003	0.0367	1.1000e-004	1.2336	8.0000e-005	1.2336	0.1250	7.0000e-005	0.1251	0.0000	10.3845	10.3845	2.5000e-004	0.0000	10.3908
Total	6.6600e-003	0.0544	0.0461	2.4000e-004	1.5068	3.2000e-004	1.5072	0.1529	3.0000e-004	0.1532	0.0000	23.0393	23.0393	7.8000e-004	0.0000	23.0588

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8079	81.8079	0.0122	0.0000	82.1129
Total	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8079	81.8079	0.0122	0.0000	82.1129

Outdoor Cultivation - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0507	9.3800e-003	1.3000e-004	3.0900e-003	2.4000e-004	3.3400e-003	9.0000e-004	2.3000e-004	1.1300e-003	0.0000	12.6548	12.6548	5.3000e-004	0.0000	12.6680
Worker	5.1400e-003	3.6600e-003	0.0367	1.1000e-004	0.0113	8.0000e-005	0.0114	3.0300e-003	7.0000e-005	3.1000e-003	0.0000	10.3845	10.3845	2.5000e-004	0.0000	10.3908
Total	6.6600e-003	0.0544	0.0461	2.4000e-004	0.0144	3.2000e-004	0.0148	3.9300e-003	3.0000e-004	4.2300e-003	0.0000	23.0393	23.0393	7.8000e-004	0.0000	23.0588

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577

Outdoor Cultivation - Yolo County, Annual

3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	0.0444	0.0000	0.0444	4.5000e-003	0.0000	4.5000e-003	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742
Total	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	0.0444	0.0000	0.0444	4.5000e-003	0.0000	4.5000e-003	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577

Outdoor Cultivation - Yolo County, Annual

3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742
Total	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3094					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.3101	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

Outdoor Cultivation - Yolo County, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	0.0137	0.0000	0.0137	1.3800e-003	0.0000	1.3900e-003	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151
Total	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	0.0137	0.0000	0.0137	1.3800e-003	0.0000	1.3900e-003	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3094					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.3101	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

Outdoor Cultivation - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151
Total	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Outdoor Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Unrefrigerated Warehouse-No Rail	15.00	8.00	9.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Outdoor Cultivation - Yolo County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

[illegible]

Outdoor Cultivation - Yolo County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Outdoor Cultivation - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	198025	26.0486	2.6000e-003	5.4000e-004	26.2743
Total		26.0486	2.6000e-003	5.4000e-004	26.2743

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	99012.5	13.0243	1.3000e-003	2.7000e-004	13.1371
Total		13.0243	1.3000e-003	2.7000e-004	13.1371

6.0 Area Detail**6.1 Mitigation Measures Area**

Outdoor Cultivation - Yolo 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	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Unmitigated	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Total	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004

Outdoor Cultivation - Yolo County, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004
Total	0.2048	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	0.0000	0.0000	8.5000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Outdoor Cultivation - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.4661	0.0148	3.6000e-004	0.9417
Unmitigated	0.4661	0.0148	3.6000e-004	0.9417

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.452933 / 0	0.4661	0.0148	3.6000e-004	0.9417
Total		0.4661	0.0148	3.6000e-004	0.9417

Outdoor Cultivation - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	0.452933 / 0	0.4661	0.0148	3.6000e-004	0.9417
Total		0.4661	0.0148	3.6000e-004	0.9417

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.4911	0.5018	0.0000	21.0364
Unmitigated	8.4911	0.5018	0.0000	21.0364

Outdoor Cultivation - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	41.83	8.4911	0.5018	0.0000	21.0364
Total		8.4911	0.5018	0.0000	21.0364

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	41.83	8.4911	0.5018	0.0000	21.0364
Total		8.4911	0.5018	0.0000	21.0364

9.0 Operational Offroad

Outdoor Cultivation - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Total	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435

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
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User Defined Equipment

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

11.0 Vegetation

Mixed-Light Cultivation - Yolo County, Summer

Mixed-Light Cultivation
Yolo County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	113.79	1000sqft	2.61	113,790.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mixed-Light Cultivation - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per outdoor license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	220.00	114.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	3.00	2.00
tblConstructionPhase	PhaseEndDate	12/14/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	11/16/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	1/13/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	11/30/2020	6/22/2020
tblConstructionPhase	PhaseEndDate	1/3/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	12/1/2020	6/23/2020

Mixed-Light Cultivation - Yolo County, Summer

tblConstructionPhase	PhaseStartDate	1/14/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	1/4/2020	1/3/2020
tblConstructionPhase	PhaseStartDate	11/17/2020	6/13/2020
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	1.00	3.00
tblGrading	AcresOfGrading	3.00	4.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblWater	IndoorWaterUseRate	26,313,937.50	241,130.00

2.0 Emissions Summary

Mixed-Light Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	264.0034	21.3723	15.1297	0.0313	79.3461	0.9909	80.0869	8.0328	0.9116	8.7514	0.0000	2,960.196 9	2,960.196 9	0.7698	0.0000	2,968.300 8
Maximum	264.0034	21.3723	15.1297	0.0313	79.3461	0.9909	80.0869	8.0328	0.9116	8.7514	0.0000	2,960.196 9	2,960.196 9	0.7698	0.0000	2,968.300 8

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	264.0034	21.3723	15.1297	0.0313	7.7210	0.9909	8.7118	3.5108	0.9116	4.4224	0.0000	2,960.196 9	2,960.196 9	0.7698	0.0000	2,968.300 8
Maximum	264.0034	21.3723	15.1297	0.0313	7.7210	0.9909	8.7118	3.5108	0.9116	4.4224	0.0000	2,960.196 9	2,960.196 9	0.7698	0.0000	2,968.300 8

	ROG	NOx	CO	SO2	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	90.27	0.00	89.12	56.29	0.00	49.47	0.00	0.00	0.00	0.00	0.00	0.00

Mixed-Light Cultivation - Yolo 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	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.9344	0.5897	0.5956	7.6000e-004	0.0000	0.0419	0.0419	0.0000	0.0385	0.0385		74.0403	74.0403	0.0240	0.0000	74.6404

Mixed-Light Cultivation - Yolo County, Summer

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	lb/day										lb/day					
Area	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.9344	0.5897	0.5956	7.6000e-004	0.0000	0.0419	0.0419	0.0000	0.0385	0.0385		74.0403	74.0403	0.0240	0.0000	74.6404

	ROG	NOx	CO	SO2	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**

Mixed-Light Cultivation - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,685; Non-Residential Outdoor: 56,895; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mixed-Light Cultivation - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	48.00	19.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

Mixed-Light Cultivation - Yolo County, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3861	0.0000	2.3861	0.2577	0.0000	0.2577			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.906 2	2,372.906 2	0.7675		2,392.092 4
Total	1.6521	19.9196	11.2678	0.0245	2.3861	0.7771	3.1632	0.2577	0.7149	0.9726		2,372.906 2	2,372.906 2	0.7675		2,392.092 4

Mixed-Light Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3861	0.0000	2.3861	0.2577	0.0000	0.2577			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.906 2	2,372.906 2	0.7675		2,392.092 4
Total	1.6521	19.9196	11.2678	0.0245	2.3861	0.7771	3.1632	0.2577	0.7149	0.9726	0.0000	2,372.906 2	2,372.906 2	0.7675		2,392.092 4

Mixed-Light Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
Total	1.9219	21.3418	9.9355	0.0206	7.6128	0.9902	8.6030	3.4820	0.9110	4.3929		1,996.4061	1,996.4061	0.6457		2,012.5480

Mixed-Light Cultivation - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6128	0.0000	7.6128	3.4820	0.0000	3.4820			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.406 1	1,996.406 1	0.6457		2,012.548 0
Total	1.9219	21.3418	9.9355	0.0206	7.6128	0.9902	8.6030	3.4820	0.9110	4.3929	0.0000	1,996.406 1	1,996.406 1	0.6457		2,012.548 0

Mixed-Light Cultivation - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8345	12.0421	12.7818	0.0193		0.7259	0.7259		0.7044	0.7044		1,730.0981	1,730.0981	0.2838		1,737.1937
Total	1.8345	12.0421	12.7818	0.0193		0.7259	0.7259		0.7044	0.7044		1,730.0981	1,730.0981	0.2838		1,737.1937

Mixed-Light Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0711	2.3621	0.4189	6.4100e-003	15.2507	0.0115	15.2622	1.5505	0.0110	1.5616		670.8193	670.8193	0.0265		671.4818
Worker	0.2540	0.1464	1.9290	5.6100e-003	64.0954	3.3500e-003	64.0988	6.4823	3.0900e-003	6.4854		559.2796	559.2796	0.0138		559.6253
Total	0.3251	2.5085	2.3479	0.0120	79.3461	0.0149	79.3610	8.0328	0.0141	8.0470		1,230.0988	1,230.0988	0.0403		1,231.1071

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8345	12.0421	12.7818	0.0193		0.7259	0.7259		0.7044	0.7044	0.0000	1,730.0981	1,730.0981	0.2838		1,737.1937
Total	1.8345	12.0421	12.7818	0.0193		0.7259	0.7259		0.7044	0.7044	0.0000	1,730.0981	1,730.0981	0.2838		1,737.1937

Mixed-Light Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0711	2.3621	0.4189	6.4100e-003	0.1513	0.0115	0.1628	0.0438	0.0110	0.0548		670.8193	670.8193	0.0265		671.4818
Worker	0.2540	0.1464	1.9290	5.6100e-003	0.5189	3.3500e-003	0.5223	0.1382	3.0900e-003	0.1413		559.2796	559.2796	0.0138		559.6253
Total	0.3251	2.5085	2.3479	0.0120	0.6702	0.0149	0.6851	0.1820	0.0141	0.1961		1,230.0988	1,230.0988	0.0403		1,231.1071

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605

Mixed-Light Cultivation - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0457	0.6028	1.7500e-003	20.0298	1.0500e-003	20.0309	2.0257	9.7000e-004	2.0267		174.7749	174.7749	4.3200e-003		174.8829
Total	0.0794	0.0457	0.6028	1.7500e-003	20.0298	1.0500e-003	20.0309	2.0257	9.7000e-004	2.0267		174.7749	174.7749	4.3200e-003		174.8829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605

Mixed-Light Cultivation - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0457	0.6028	1.7500e-003	0.1622	1.0500e-003	0.1632	0.0432	9.7000e-004	0.0442		174.7749	174.7749	4.3200e-003		174.8829
Total	0.0794	0.0457	0.6028	1.7500e-003	0.1622	1.0500e-003	0.1632	0.0432	9.7000e-004	0.0442		174.7749	174.7749	4.3200e-003		174.8829

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	263.7083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	263.9505	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Mixed-Light Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	263.7083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	263.9505	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mixed-Light Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Mixed-Light Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

Mixed-Light Cultivation - Yolo County, Summer

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mixed-Light Cultivation - Yolo 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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266
Unmitigated	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266

Mixed-Light Cultivation - Yolo County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4335					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266
Total	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4335					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266
Total	2.8697	1.1000e-004	0.0117	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0249	0.0249	7.0000e-005		0.0266

7.0 Water Detail

Mixed-Light Cultivation - Yolo County, Summer

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
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Mixed-Light Cultivation - Yolo County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Mixed-Light Cultivation - Yolo County, Annual

Mixed-Light Cultivation
Yolo County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	113.79	1000sqft	2.61	113,790.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Mixed-Light Cultivation - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per outdoor license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	220.00	114.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	3.00	2.00
tblConstructionPhase	PhaseEndDate	12/14/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	11/16/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	1/13/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	11/30/2020	6/22/2020
tblConstructionPhase	PhaseEndDate	1/3/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	12/1/2020	6/23/2020

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tblConstructionPhase	PhaseStartDate	1/14/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	1/4/2020	1/3/2020
tblConstructionPhase	PhaseStartDate	11/17/2020	6/13/2020
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	1.00	3.00
tblGrading	AcresOfGrading	3.00	4.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblWater	IndoorWaterUseRate	26,313,937.50	241,130.00

2.0 Emissions Summary

Mixed-Light Cultivation - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.9210	0.9146	0.9120	1.8700e-003	3.9740	0.0463	4.0203	0.4059	0.0447	0.4506	0.0000	160.3189	160.3189	0.0196	0.0000	160.8087
Maximum	0.9210	0.9146	0.9120	1.8700e-003	3.9740	0.0463	4.0203	0.4059	0.0447	0.4506	0.0000	160.3189	160.3189	0.0196	0.0000	160.8087

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.9210	0.9146	0.9120	1.8700e-003	0.0480	0.0463	0.0943	0.0141	0.0447	0.0588	0.0000	160.3188	160.3188	0.0196	0.0000	160.8086
Maximum	0.9210	0.9146	0.9120	1.8700e-003	0.0480	0.0463	0.0943	0.0141	0.0447	0.0588	0.0000	160.3188	160.3188	0.0196	0.0000	160.8086

	ROG	NOx	CO	SO2	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	98.79	0.00	97.65	96.53	0.00	86.94	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.5587	0.5587
2	4-1-2020	6-30-2020	1.2408	1.2408
		Highest	1.2408	1.2408

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	119.0716	119.0716	0.0119	2.4600e-003	120.1034
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	28.6420	0.0000	28.6420	1.6927	0.0000	70.9594
Water						0.0000	0.0000		0.0000	0.0000	0.0765	0.1716	0.2481	7.8700e-003	1.9000e-004	0.5013
Total	0.5402	0.1034	0.1067	1.4000e-004	0.0000	6.6500e-003	6.6500e-003	0.0000	6.2200e-003	6.2200e-003	28.7185	131.7821	160.5006	1.7158	2.6500e-003	204.1871

Mixed-Light Cultivation - Yolo 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	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	59.5358	59.5358	5.9500e-003	1.2300e-003	60.0517
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	28.6420	0.0000	28.6420	1.6927	0.0000	70.9594
Water						0.0000	0.0000		0.0000	0.0000	0.0765	0.1716	0.2481	7.8700e-003	1.9000e-004	0.5013
Total	0.5402	0.1034	0.1067	1.4000e-004	0.0000	6.6500e-003	6.6500e-003	0.0000	6.2200e-003	6.2200e-003	28.7185	72.2464	100.9649	1.7099	1.4200e-003	144.1354

	ROG	NOx	CO	SO2	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	45.18	37.09	0.35	46.42	29.41

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,685; Non-Residential Outdoor: 56,895; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	48.00	19.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0199	0.0113	2.0000e-005		7.8000e-004	7.8000e-004		7.1000e-004	7.1000e-004	0.0000	2.1527	2.1527	7.0000e-004	0.0000	2.1701
Total	1.6500e-003	0.0199	0.0113	2.0000e-005	2.3900e-003	7.8000e-004	3.1700e-003	2.6000e-004	7.1000e-004	9.7000e-004	0.0000	2.1527	2.1527	7.0000e-004	0.0000	2.1701

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3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0199	0.0113	2.0000e-005		7.8000e-004	7.8000e-004		7.1000e-004	7.1000e-004	0.0000	2.1527	2.1527	7.0000e-004	0.0000	2.1701
Total	1.6500e-003	0.0199	0.0113	2.0000e-005	2.3900e-003	7.8000e-004	3.1700e-003	2.6000e-004	7.1000e-004	9.7000e-004	0.0000	2.1527	2.1527	7.0000e-004	0.0000	2.1701

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3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6100e-003	0.0000	7.6100e-003	3.4800e-003	0.0000	3.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0213	9.9400e-003	2.0000e-005		9.9000e-004	9.9000e-004		9.1000e-004	9.1000e-004	0.0000	1.8111	1.8111	5.9000e-004	0.0000	1.8258
Total	1.9200e-003	0.0213	9.9400e-003	2.0000e-005	7.6100e-003	9.9000e-004	8.6000e-003	3.4800e-003	9.1000e-004	4.3900e-003	0.0000	1.8111	1.8111	5.9000e-004	0.0000	1.8258

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3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6100e-003	0.0000	7.6100e-003	3.4800e-003	0.0000	3.4800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0213	9.9400e-003	2.0000e-005		9.9000e-004	9.9000e-004		9.1000e-004	9.1000e-004	0.0000	1.8111	1.8111	5.9000e-004	0.0000	1.8258
Total	1.9200e-003	0.0213	9.9400e-003	2.0000e-005	7.6100e-003	9.9000e-004	8.6000e-003	3.4800e-003	9.1000e-004	4.3900e-003	0.0000	1.8111	1.8111	5.9000e-004	0.0000	1.8258

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3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	0.6864	0.7286	1.1000e-003		0.0414	0.0414		0.0402	0.0402	0.0000	89.4626	89.4626	0.0147	0.0000	89.8295
Total	0.1046	0.6864	0.7286	1.1000e-003		0.0414	0.0414		0.0402	0.0402	0.0000	89.4626	89.4626	0.0147	0.0000	89.8295

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1376	0.0255	3.6000e-004	0.7417	6.6000e-004	0.7424	0.0756	6.4000e-004	0.0763	0.0000	34.3487	34.3487	1.4400e-003	0.0000	34.3847
Worker	0.0130	9.2400e-003	0.0927	2.9000e-004	3.1164	1.9000e-004	3.1166	0.3158	1.8000e-004	0.3159	0.0000	26.2345	26.2345	6.4000e-004	0.0000	26.2504
Total	0.0171	0.1468	0.1182	6.5000e-004	3.8581	8.5000e-004	3.8590	0.3914	8.2000e-004	0.3922	0.0000	60.5832	60.5832	2.0800e-003	0.0000	60.6351

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1046	0.6864	0.7286	1.1000e-003		0.0414	0.0414		0.0402	0.0402	0.0000	89.4625	89.4625	0.0147	0.0000	89.8294
Total	0.1046	0.6864	0.7286	1.1000e-003		0.0414	0.0414		0.0402	0.0402	0.0000	89.4625	89.4625	0.0147	0.0000	89.8294

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1376	0.0255	3.6000e-004	8.4000e-003	6.6000e-004	9.0600e-003	2.4400e-003	6.4000e-004	3.0800e-003	0.0000	34.3487	34.3487	1.4400e-003	0.0000	34.3847
Worker	0.0130	9.2400e-003	0.0927	2.9000e-004	0.0286	1.9000e-004	0.0288	7.6400e-003	1.8000e-004	7.8200e-003	0.0000	26.2345	26.2345	6.4000e-004	0.0000	26.2504
Total	0.0171	0.1468	0.1182	6.5000e-004	0.0370	8.5000e-004	0.0379	0.0101	8.2000e-004	0.0109	0.0000	60.5832	60.5832	2.0800e-003	0.0000	60.6351

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4600e-003	0.0348	0.0354	5.0000e-005		1.9700e-003	1.9700e-003		1.8200e-003	1.8200e-003	0.0000	4.6517	4.6517	1.4700e-003	0.0000	4.6886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4600e-003	0.0348	0.0354	5.0000e-005		1.9700e-003	1.9700e-003		1.8200e-003	1.8200e-003	0.0000	4.6517	4.6517	1.4700e-003	0.0000	4.6886

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3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4600e-003	0.0348	0.0354	5.0000e-005		1.9700e-003	1.9700e-003		1.8200e-003	1.8200e-003	0.0000	4.6517	4.6517	1.4700e-003	0.0000	4.6886
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4600e-003	0.0348	0.0354	5.0000e-005		1.9700e-003	1.9700e-003		1.8200e-003	1.8200e-003	0.0000	4.6517	4.6517	1.4700e-003	0.0000	4.6886

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3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.7919	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

Mixed-Light Cultivation - Yolo County, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	0.0342	0.0000	0.0342	3.4600e-003	0.0000	3.4600e-003	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878
Total	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	0.0342	0.0000	0.0342	3.4600e-003	0.0000	3.4600e-003	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.7919	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

Mixed-Light Cultivation - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878
Total	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Mixed-Light Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

Mixed-Light Cultivation - Yolo County, Annual

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

[illegible]

Mixed-Light Cultivation - Yolo County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Mixed-Light Cultivation - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	905199	119.0716	0.0119	2.4600e-003	120.1034
Total		119.0716	0.0119	2.4600e-003	120.1034

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	452600	59.5358	5.9500e-003	1.2300e-003	60.0517
Total		59.5358	5.9500e-003	1.2300e-003	60.0517

6.0 Area Detail**6.1 Mitigation Measures Area**

Mixed-Light Cultivation - Yolo 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	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003
Unmitigated	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003
Total	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003

Mixed-Light Cultivation - Yolo County, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003
Total	0.5236	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.1700e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Mixed-Light Cultivation - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2481	7.8700e-003	1.9000e-004	0.5013
Unmitigated	0.2481	7.8700e-003	1.9000e-004	0.5013

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.24113 / 0	0.2481	7.8700e-003	1.9000e-004	0.5013
Total		0.2481	7.8700e-003	1.9000e-004	0.5013

Mixed-Light Cultivation - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.24113 / 0	0.2481	7.8700e-003	1.9000e-004	0.5013
Total		0.2481	7.8700e-003	1.9000e-004	0.5013

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.6420	1.6927	0.0000	70.9594
Unmitigated	28.6420	1.6927	0.0000	70.9594

Mixed-Light Cultivation - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	141.1	28.6420	1.6927	0.0000	70.9594
Total		28.6420	1.6927	0.0000	70.9594

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	141.1	28.6420	1.6927	0.0000	70.9594
Total		28.6420	1.6927	0.0000	70.9594

9.0 Operational Offroad

Mixed-Light Cultivation - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Mixed-Light Cultivation - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Total	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213

11.0 Vegetation

Indoor Cultivation - Yolo County, Summer

Indoor Cultivation
Yolo County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	44.00	1000sqft	1.01	44,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Indoor Cultivation - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - No on-site off-road equipment assumed

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	200.00	114.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	PhaseEndDate	11/11/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	10/14/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	1/8/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	10/28/2020	6/22/2020
tblConstructionPhase	PhaseStartDate	10/29/2020	6/23/2020
tblConstructionPhase	PhaseStartDate	1/9/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	10/15/2020	6/13/2020

Indoor Cultivation - Yolo County, Summer

tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	0.75	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblWater	IndoorWaterUseRate	10,175,000.00	1,942.60

2.0 Emissions Summary

Indoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	102.2334	18.3708	12.4793	0.0222	29.6545	0.8215	30.2892	4.0341	0.7558	4.7899	0.0000	2,038.9410	2,038.9410	0.5416	0.0000	2,045.2134
Maximum	102.2334	18.3708	12.4793	0.0222	29.6545	0.8215	30.2892	4.0341	0.7558	4.7899	0.0000	2,038.9410	2,038.9410	0.5416	0.0000	2,045.2134

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	102.2334	18.3708	12.4793	0.0222	5.8861	0.8215	6.7076	2.9767	0.7558	3.7325	0.0000	2,038.9410	2,038.9410	0.5416	0.0000	2,045.2134
Maximum	102.2334	18.3708	12.4793	0.0222	5.8861	0.8215	6.7076	2.9767	0.7558	3.7325	0.0000	2,038.9410	2,038.9410	0.5416	0.0000	2,045.2134

	ROG	NOx	CO	SO2	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	80.15	0.00	77.85	26.21	0.00	22.07	0.00	0.00	0.00	0.00	0.00	0.00

Indoor Cultivation - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1096	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

Indoor Cultivation - Yolo County, Summer

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	lb/day										lb/day					
Area	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1096	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

	ROG	NOx	CO	SO2	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**

Indoor Cultivation - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 66,000; Non-Residential Outdoor: 22,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Indoor Cultivation - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	18.00	7.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

Indoor Cultivation - Yolo County, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090		1,667.4119	1,667.4119	0.5393		1,680.8937

Indoor Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	1.6299	18.3464	7.7093	0.0172	5.7996	0.8210	6.6205	2.9537	0.7553	3.7090	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937

Indoor Cultivation - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.718 3	1,365.718 3	0.4417		1,376.760 9
Total	1.3498	15.0854	6.4543	0.0141	5.3119	0.6844	5.9963	2.5686	0.6296	3.1982		1,365.718 3	1,365.718 3	0.4417		1,376.760 9

Indoor Cultivation - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	10.6826	5.6000e-004	10.6831	1.0804	5.2000e-004	1.0809		93.2133	93.2133	2.3000e-003		93.2709

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.718 3	1,365.718 3	0.4417		1,376.760 9
Total	1.3498	15.0854	6.4543	0.0141	5.3119	0.6844	5.9963	2.5686	0.6296	3.1982	0.0000	1,365.718 3	1,365.718 3	0.4417		1,376.760 9

Indoor Cultivation - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709
Total	0.0423	0.0244	0.3215	9.4000e-004	0.0865	5.6000e-004	0.0870	0.0230	5.2000e-004	0.0236		93.2133	93.2133	2.3000e-003		93.2709

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155		1,582.0673	1,582.0673	0.2360		1,587.9659
Total	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155		1,582.0673	1,582.0673	0.2360		1,587.9659

Indoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0262	0.8703	0.1543	2.3600e-003	5.6187	4.2500e-003	5.6229	0.5712	4.0700e-003	0.5753		247.1439	247.1439	9.7600e-003		247.3880
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.1215	0.9252	0.8777	4.4700e-003	29.6545	5.5100e-003	29.6600	3.0021	5.2300e-003	3.0073		456.8738	456.8738	0.0150		457.2475

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155	0.0000	1,582.0673	1,582.0673	0.2360		1,587.9659
Total	1.6905	10.7446	11.6016	0.0177		0.6293	0.6293		0.6155	0.6155	0.0000	1,582.0673	1,582.0673	0.2360		1,587.9659

Indoor Cultivation - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0262	0.8703	0.1543	2.3600e-003	0.0557	4.2500e-003	0.0600	0.0161	4.0700e-003	0.0202		247.1439	247.1439	9.7600e-003		247.3880
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.1215	0.9252	0.8777	4.4700e-003	0.2503	5.5100e-003	0.2558	0.0680	5.2300e-003	0.0732		456.8738	456.8738	0.0150		457.2475

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246

Indoor Cultivation - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0396	0.5224	1.5200e-003	17.3592	9.1000e-004	17.3601	1.7556	8.4000e-004	1.7565		151.4716	151.4716	3.7500e-003		151.5652
Total	0.0688	0.0396	0.5224	1.5200e-003	17.3592	9.1000e-004	17.3601	1.7556	8.4000e-004	1.7565		151.4716	151.4716	3.7500e-003		151.5652

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.946 1	1,296.946 1	0.4111		1,307.224 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.946 1	1,296.946 1	0.4111		1,307.224 6

Indoor Cultivation - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0396	0.5224	1.5200e-003	0.1405	9.1000e-004	0.1415	0.0374	8.4000e-004	0.0383		151.4716	151.4716	3.7500e-003		151.5652
Total	0.0688	0.0396	0.5224	1.5200e-003	0.1405	9.1000e-004	0.1415	0.0374	8.4000e-004	0.0383		151.4716	151.4716	3.7500e-003		151.5652

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	101.9700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	102.2122	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Indoor Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0212	0.0122	0.1608	4.7000e-004	5.3413	2.8000e-004	5.3416	0.5402	2.6000e-004	0.5405		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0212	0.0122	0.1608	4.7000e-004	5.3413	2.8000e-004	5.3416	0.5402	2.6000e-004	0.5405		46.6066	46.6066	1.1500e-003		46.6354

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	101.9700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	102.2122	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Indoor Cultivation - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0212	0.0122	0.1608	4.7000e-004	0.0432	2.8000e-004	0.0435	0.0115	2.6000e-004	0.0118		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0212	0.0122	0.1608	4.7000e-004	0.0432	2.8000e-004	0.0435	0.0115	2.6000e-004	0.0118		46.6066	46.6066	1.1500e-003		46.6354

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Indoor Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

Indoor Cultivation - Yolo County, Summer

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Indoor Cultivation - Yolo 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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Unmitigated	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Indoor Cultivation - Yolo County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1676					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	1.1096	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

7.0 Water Detail

Indoor Cultivation - Yolo County, Summer

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Indoor Cultivation - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Indoor Cultivation - Yolo County, Annual

Indoor Cultivation
Yolo County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	44.00	1000sqft	1.01	44,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Indoor Cultivation - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater - Water consumption rates from PD

Operational Off-Road Equipment - No on-site off-road equipment assumed

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	200.00	114.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	PhaseEndDate	11/11/2020	6/30/2020
tblConstructionPhase	PhaseEndDate	10/14/2020	6/12/2020
tblConstructionPhase	PhaseEndDate	1/8/2020	1/6/2020
tblConstructionPhase	PhaseEndDate	10/28/2020	6/22/2020
tblConstructionPhase	PhaseStartDate	10/29/2020	6/23/2020
tblConstructionPhase	PhaseStartDate	1/9/2020	1/7/2020
tblConstructionPhase	PhaseStartDate	10/15/2020	6/13/2020

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tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	0.75	1.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblWater	IndoorWaterUseRate	10,175,000.00	1,942.60

2.0 Emissions Summary

Indoor Cultivation - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4152	0.7307	0.7540	1.3400e-003	1.5293	0.0394	1.5688	0.1595	0.0384	0.1979	0.0000	111.9904	111.9904	0.0151	0.0000	112.3667
Maximum	0.4152	0.7307	0.7540	1.3400e-003	1.5293	0.0394	1.5688	0.1595	0.0384	0.1979	0.0000	111.9904	111.9904	0.0151	0.0000	112.3667

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4152	0.7307	0.7540	1.3400e-003	0.0256	0.0394	0.0651	9.4800e-003	0.0384	0.0479	0.0000	111.9903	111.9903	0.0151	0.0000	112.3666
Maximum	0.4152	0.7307	0.7540	1.3400e-003	0.0256	0.0394	0.0651	9.4800e-003	0.0384	0.0479	0.0000	111.9903	111.9903	0.0151	0.0000	112.3666

	ROG	NOx	CO	SO2	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	98.32	0.00	95.85	94.06	0.00	75.81	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.4481	0.4481
2	4-1-2020	6-30-2020	0.6820	0.6820
		Highest	0.6820	0.6820

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	46.0423	46.0423	4.6000e-003	9.5000e-004	46.4412
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	11.0752	0.0000	11.0752	0.6545	0.0000	27.4383
Water						0.0000	0.0000		0.0000	0.0000	6.2000e-004	1.3800e-003	2.0000e-003	6.0000e-005	0.0000	4.0400e-003
Total	0.2107	0.0268	0.0302	4.0000e-005	0.0000	1.2100e-003	1.2100e-003	0.0000	1.2100e-003	1.2100e-003	11.0758	49.8524	60.9282	0.6597	9.5000e-004	77.7058

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	23.0211	23.0211	2.3000e-003	4.8000e-004	23.2206
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	11.0752	0.0000	11.0752	0.6545	0.0000	27.4383
Water						0.0000	0.0000		0.0000	0.0000	6.2000e-004	1.3800e-003	2.0000e-003	6.0000e-005	0.0000	4.0400e-003
Total	0.2107	0.0268	0.0302	4.0000e-005	0.0000	1.2100e-003	1.2100e-003	0.0000	1.2100e-003	1.2100e-003	11.0758	26.8313	37.9071	0.6574	4.8000e-004	54.4851

	ROG	NOx	CO	SO2	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	46.18	37.78	0.35	49.47	29.88

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/6/2020	5	2	
3	Building Construction	Building Construction	1/7/2020	6/12/2020	5	114	
4	Paving	Paving	6/13/2020	6/22/2020	5	6	
5	Architectural Coating	Architectural Coating	6/23/2020	6/30/2020	5	6	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 66,000; Non-Residential Outdoor: 22,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	18.00	7.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	1.6300e-003	0.0184	7.7100e-003	2.0000e-005	5.8000e-003	8.2000e-004	6.6200e-003	2.9500e-003	7.6000e-004	3.7100e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

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3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	1.6300e-003	0.0184	7.7100e-003	2.0000e-005	5.8000e-003	8.2000e-004	6.6200e-003	2.9500e-003	7.6000e-004	3.7100e-003	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249

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3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0151	6.4500e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.3000e-004	6.3000e-004	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490
Total	1.3500e-003	0.0151	6.4500e-003	1.0000e-005	5.3100e-003	6.8000e-004	5.9900e-003	2.5700e-003	6.3000e-004	3.2000e-003	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490

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3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	9.1100e-003	0.0000	9.1100e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0151	6.4500e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.3000e-004	6.3000e-004	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490
Total	1.3500e-003	0.0151	6.4500e-003	1.0000e-005	5.3100e-003	6.8000e-004	5.9900e-003	2.5700e-003	6.3000e-004	3.2000e-003	0.0000	1.2390	1.2390	4.0000e-004	0.0000	1.2490

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3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768
Total	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0767	0.0767	0.0000	0.0000	0.0768

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8080	81.8080	0.0122	0.0000	82.1130
Total	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8080	81.8080	0.0122	0.0000	82.1130

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0507	9.3800e-003	1.3000e-004	0.2733	2.4000e-004	0.2735	0.0279	2.3000e-004	0.0281	0.0000	12.6548	12.6548	5.3000e-004	0.0000	12.6680
Worker	4.8700e-003	3.4600e-003	0.0348	1.1000e-004	1.1686	7.0000e-005	1.1687	0.1184	7.0000e-005	0.1185	0.0000	9.8379	9.8379	2.4000e-004	0.0000	9.8439
Total	6.3900e-003	0.0542	0.0442	2.4000e-004	1.4419	3.1000e-004	1.4422	0.1463	3.0000e-004	0.1466	0.0000	22.4927	22.4927	7.7000e-004	0.0000	22.5119

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8079	81.8079	0.0122	0.0000	82.1129
Total	0.0964	0.6124	0.6613	1.0100e-003		0.0359	0.0359		0.0351	0.0351	0.0000	81.8079	81.8079	0.0122	0.0000	82.1129

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0507	9.3800e-003	1.3000e-004	3.0900e-003	2.4000e-004	3.3400e-003	9.0000e-004	2.3000e-004	1.1300e-003	0.0000	12.6548	12.6548	5.3000e-004	0.0000	12.6680
Worker	4.8700e-003	3.4600e-003	0.0348	1.1000e-004	0.0107	7.0000e-005	0.0108	2.8700e-003	7.0000e-005	2.9300e-003	0.0000	9.8379	9.8379	2.4000e-004	0.0000	9.8439
Total	6.3900e-003	0.0542	0.0442	2.4000e-004	0.0138	3.1000e-004	0.0142	3.7700e-003	3.0000e-004	4.0600e-003	0.0000	22.4927	22.4927	7.7000e-004	0.0000	22.5119

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577

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3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	0.0444	0.0000	0.0444	4.5000e-003	0.0000	4.5000e-003	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742
Total	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	0.0444	0.0000	0.0444	4.5000e-003	0.0000	4.5000e-003	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.5200e-003	0.0254	0.0266	4.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	3.5297	3.5297	1.1200e-003	0.0000	3.5577

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3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742
Total	1.9000e-004	1.3000e-004	1.3200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3740	0.3740	1.0000e-005	0.0000	0.3742

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3059					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.3066	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

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3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	0.0137	0.0000	0.0137	1.3800e-003	0.0000	1.3900e-003	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151
Total	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	0.0137	0.0000	0.0137	1.3800e-003	0.0000	1.3900e-003	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3059					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675
Total	0.3066	5.0500e-003	5.4900e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.7660	0.7660	6.0000e-005	0.0000	0.7675

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3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151
Total	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1151	0.1151	0.0000	0.0000	0.1151

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Indoor Cultivation - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

Indoor Cultivation - Yolo County, Annual

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

[illegible]

Indoor Cultivation - Yolo County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Indoor Cultivation - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	350020	46.0423	4.6000e-003	9.5000e-004	46.4412
Total		46.0423	4.6000e-003	9.5000e-004	46.4412

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	175010	23.0211	2.3000e-003	4.8000e-004	23.2206
Total		23.0211	2.3000e-003	4.8000e-004	23.2206

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Unmitigated	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.2025	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Indoor Cultivation - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0000e-003	6.0000e-005	0.0000	4.0400e-003
Unmitigated	2.0000e-003	6.0000e-005	0.0000	4.0400e-003

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.0019426 / 0	2.0000e-003	6.0000e-005	0.0000	4.0400e-003
Total		2.0000e-003	6.0000e-005	0.0000	4.0400e-003

Indoor Cultivation - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.0019426 / 0	2.0000e-003	6.0000e-005	0.0000	4.0400e-003
Total		2.0000e-003	6.0000e-005	0.0000	4.0400e-003

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.0752	0.6545	0.0000	27.4383
Unmitigated	11.0752	0.6545	0.0000	27.4383

Indoor Cultivation - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	54.56	11.0752	0.6545	0.0000	27.4383
Total		11.0752	0.6545	0.0000	27.4383

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	54.56	11.0752	0.6545	0.0000	27.4383
Total		11.0752	0.6545	0.0000	27.4383

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Indoor Cultivation - Yolo County, Annual

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Total	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213

11.0 Vegetation

Manufacturing - Yolo County, Summer

Manufacturing

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	2.70	1000sqft	0.06	2,700.00	0
Parking Lot	10.00	Space	0.09	4,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Manufacturing - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Manufacturing - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

Manufacturing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0899	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	8.0899	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0899	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	8.0899	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Manufacturing - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003
Energy	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1358	0.5991	0.5932	8.2000e-004	0.0000	0.0426	0.0426	0.0000	0.0392	0.0392		85.3891	85.3891	0.0242	2.1000e-004	86.0553

Manufacturing - Yolo County, Summer

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	lb/day										lb/day					
Area	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003
Energy	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1358	0.5991	0.5932	8.2000e-004	0.0000	0.0426	0.0426	0.0000	0.0392	0.0392		85.3891	85.3891	0.0242	2.1000e-004	86.0553

	ROG	NOx	CO	SO2	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**

Manufacturing - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,050; Non-Residential Outdoor: 1,350; Striped Parking Area: 240 (Architectural Coating – sqft)

OffRoad Equipment

Manufacturing - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	3.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Manufacturing - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Manufacturing - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Manufacturing - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Manufacturing - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Manufacturing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	0.8027	6.1000e-004	0.8033	0.0816	5.8000e-004	0.0822		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0159	9.1500e-003	0.1206	3.5000e-004	4.0060	2.1000e-004	4.0062	0.4051	1.9000e-004	0.4053		34.9550	34.9550	8.6000e-004		34.9766
Total	0.0196	0.1335	0.1426	6.9000e-004	4.8086	8.2000e-004	4.8095	0.4868	7.7000e-004	0.4875		70.2613	70.2613	2.2500e-003		70.3177

Manufacturing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	7.9600e-003	6.1000e-004	8.5700e-003	2.3000e-003	5.8000e-004	2.8900e-003		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0159	9.1500e-003	0.1206	3.5000e-004	0.0324	2.1000e-004	0.0326	8.6400e-003	1.9000e-004	8.8300e-003		34.9550	34.9550	8.6000e-004		34.9766
Total	0.0196	0.1335	0.1426	6.9000e-004	0.0404	8.2000e-004	0.0412	0.0109	7.7000e-004	0.0117		70.2613	70.2613	2.2500e-003		70.3177

Manufacturing - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8187	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Manufacturing - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8187	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Manufacturing - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.8424					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	8.0846	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589

Manufacturing - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.8424					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	8.0846	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589

4.0 Operational Detail - Mobile

Manufacturing - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Manufacturing - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385
NaturalGas Unmitigated	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385

Manufacturing - Yolo 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					
Manufacturing	96.6526	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385

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					
Manufacturing	0.0966526	1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0400e-003	9.4800e-003	7.9600e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3709	11.3709	2.2000e-004	2.1000e-004	11.4385

6.0 Area Detail**6.1 Mitigation Measures Area**

Manufacturing - Yolo 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	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003
Unmitigated	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003
Total	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003

Manufacturing - Yolo County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003
Total	0.0701	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7800e-003	2.7800e-003	1.0000e-005		2.9600e-003

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
Forklifts	1	4.00	260	89	0.20	Diesel

Manufacturing - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Manufacturing - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Manufacturing - Yolo County, Annual

Manufacturing

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	2.70	1000sqft	0.06	2,700.00	0
Parking Lot	10.00	Space	0.09	4,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Manufacturing - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Manufacturing - Yolo County, Annual

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

Manufacturing - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0564	0.3493	0.3568	5.2000e-004	0.2745	0.0225	0.2970	0.0282	0.0208	0.0489	0.0000	45.4118	45.4118	0.0133	0.0000	45.7434
Maximum	0.0564	0.3493	0.3568	5.2000e-004	0.2745	0.0225	0.2970	0.0282	0.0208	0.0489	0.0000	45.4118	45.4118	0.0133	0.0000	45.7434

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0564	0.3493	0.3568	5.2000e-004	3.6000e-003	0.0225	0.0261	1.1400e-003	0.0208	0.0219	0.0000	45.4117	45.4117	0.0133	0.0000	45.7434
Maximum	0.0564	0.3493	0.3568	5.2000e-004	3.6000e-003	0.0225	0.0261	1.1400e-003	0.0208	0.0219	0.0000	45.4117	45.4117	0.0133	0.0000	45.7434

	ROG	NOx	CO	SO2	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	98.69	0.00	91.21	95.95	0.00	55.23	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2280	0.2280
2	4-1-2020	6-30-2020	0.1739	0.1739
		Highest	0.2280	0.2280

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Energy	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	4.8921	4.8921	3.4000e-004	1.0000e-004	4.9293
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.6800	0.0000	0.6800	0.0402	0.0000	1.6847
Water						0.0000	0.0000		0.0000	0.0000	0.1981	0.4444	0.6425	0.0204	4.9000e-004	1.2981
Total	0.0214	0.0784	0.0775	1.1000e-004	0.0000	5.5700e-003	5.5700e-003	0.0000	5.1400e-003	5.1400e-003	0.8781	14.0656	14.9438	0.0637	5.9000e-004	16.7119

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Energy	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	3.3873	3.3873	1.9000e-004	7.0000e-005	3.4116
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.6800	0.0000	0.6800	0.0402	0.0000	1.6847
Water						0.0000	0.0000		0.0000	0.0000	0.1981	0.4444	0.6425	0.0204	4.9000e-004	1.2981
Total	0.0214	0.0784	0.0775	1.1000e-004	0.0000	5.5700e-003	5.5700e-003	0.0000	5.1400e-003	5.1400e-003	0.8781	12.5609	13.4390	0.0636	5.6000e-004	15.1942

	ROG	NOx	CO	SO2	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	10.70	10.07	0.24	5.08	9.08

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,050; Non-Residential Outdoor: 1,350; Striped Parking Area: 240 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	3.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	0.0342	3.0000e-005	0.0343	3.4900e-003	3.0000e-005	3.5200e-003	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	7.1000e-004	5.1000e-004	5.0800e-003	2.0000e-005	0.1709	1.0000e-005	0.1709	0.0173	1.0000e-005	0.0173	0.0000	1.4383	1.4383	3.0000e-005	0.0000	1.4392
Total	9.0000e-004	6.8600e-003	6.2600e-003	4.0000e-005	0.2051	4.0000e-005	0.2051	0.0208	4.0000e-005	0.0208	0.0000	3.0241	3.0241	1.0000e-004	0.0000	3.0266

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.2000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	7.1000e-004	5.1000e-004	5.0800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4383	1.4383	3.0000e-005	0.0000	1.4392
Total	9.0000e-004	6.8600e-003	6.2600e-003	4.0000e-005	1.9600e-003	4.0000e-005	2.0000e-003	5.3000e-004	4.0000e-005	5.7000e-004	0.0000	3.0241	3.0241	1.0000e-004	0.0000	3.0266

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3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0500e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Manufacturing - Yolo County, Annual

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0500e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Manufacturing - Yolo County, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0202	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Manufacturing - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0202	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

4.0 Operational Detail - Mobile

Manufacturing - Yolo County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Manufacturing - Yolo County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	1.5047	1.5047	1.5000e-004	3.0000e-005	1.5178
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.0095	3.0095	3.0000e-004	6.0000e-005	3.0356
NaturalGas Mitigated	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938
NaturalGas Unmitigated	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938

Manufacturing - Yolo 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					
Manufacturing	35278.2	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938

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					
Manufacturing	35278.2	1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.9000e-004	1.7300e-003	1.4500e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8826	1.8826	4.0000e-005	3.0000e-005	1.8938

Manufacturing - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	21478.5	2.8253	2.8000e-004	6.0000e-005	2.8498
Parking Lot	1400	0.1842	2.0000e-005	0.0000	0.1858
Total		3.0095	3.0000e-004	6.0000e-005	3.0356

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	10739.3	1.4127	1.4000e-004	3.0000e-005	1.4249
Parking Lot	700	0.0921	1.0000e-005	0.0000	0.0929
Total		1.5047	1.5000e-004	3.0000e-005	1.5178

6.0 Area Detail**6.1 Mitigation Measures Area**

Manufacturing - Yolo 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	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Unmitigated	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004

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	1.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Total	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004

Manufacturing - Yolo 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	1.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Total	0.0128	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Manufacturing - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6425	0.0204	4.9000e-004	1.2981
Unmitigated	0.6425	0.0204	4.9000e-004	1.2981

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.624375 / 0	0.6425	0.0204	4.9000e-004	1.2981
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6425	0.0204	4.9000e-004	1.2981

Manufacturing - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.624375 / 0	0.6425	0.0204	4.9000e-004	1.2981
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6425	0.0204	4.9000e-004	1.2981

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.6800	0.0402	0.0000	1.6847
Unmitigated	0.6800	0.0402	0.0000	1.6847

Manufacturing - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	3.35	0.6800	0.0402	0.0000	1.6847
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.6800	0.0402	0.0000	1.6847

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	3.35	0.6800	0.0402	0.0000	1.6847
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.6800	0.0402	0.0000	1.6847

9.0 Operational Offroad

Manufacturing - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Manufacturing - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

Distribution - Yolo County, Summer

Distribution

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	1.00	1000sqft	0.02	1,000.00	0
Parking Lot	2.00	Space	0.02	800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Distribution - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Distribution - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	WD_TR	8.11	0.00

2.0 Emissions Summary

Distribution - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.0899	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	3.0899	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.0899	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	3.0899	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Distribution - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004
Energy	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0907	0.5931	0.5872	7.8000e-004	0.0000	0.0421	0.0421	0.0000	0.0388	0.0388		78.2275	78.2275	0.0240	8.0000e-005	78.8510

Distribution - Yolo County, Summer

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	lb/day										lb/day					
Area	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004
Energy	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0907	0.5931	0.5872	7.8000e-004	0.0000	0.0421	0.0421	0.0000	0.0388	0.0388		78.2275	78.2275	0.0240	8.0000e-005	78.8510

	ROG	NOx	CO	SO2	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**

Distribution - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 48 (Architectural Coating – sqft)

OffRoad Equipment

Distribution - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Distribution - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Distribution - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Distribution - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Distribution - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Distribution - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589

Distribution - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589

Distribution - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0105					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7820	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Distribution - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0105					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7820	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Distribution - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	3.0899	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

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

Distribution - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8477					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	3.0899	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Distribution - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Research & Development	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Research & Development	15.00	8.00	9.00	33.00	48.00	19.00	82	15	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Distribution - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365
NaturalGas Unmitigated	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365

Distribution - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	35.7973	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365
Total		3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.0357973	3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365
Total		3.9000e-004	3.5100e-003	2.9500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		4.2114	4.2114	8.0000e-005	8.0000e-005	4.2365

6.0 Area Detail**6.1 Mitigation Measures Area**

Distribution - Yolo 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	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004
Unmitigated	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.9000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004
Total	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004

Distribution - Yolo 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	3.9000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004
Total	0.0256	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.6000e-004	6.6000e-004	0.0000		7.0000e-004

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
Forklifts	1	4.00	260	89	0.20	Diesel

Distribution - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Distribution - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Distribution - Yolo County, Annual

Distribution

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	1.00	1000sqft	0.02	1,000.00	0
Parking Lot	2.00	Space	0.02	800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Distribution - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Distribution - Yolo County, Annual

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	WD_TR	8.11	0.00

2.0 Emissions Summary

Distribution - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0432	0.3426	0.3522	4.9000e-004	0.1235	0.0225	0.1459	0.0129	0.0207	0.0336	0.0000	42.8431	42.8431	0.0132	0.0000	43.1725
Maximum	0.0432	0.3426	0.3522	4.9000e-004	0.1235	0.0225	0.1459	0.0129	0.0207	0.0336	0.0000	42.8431	42.8431	0.0132	0.0000	43.1725

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0432	0.3426	0.3522	4.9000e-004	2.1400e-003	0.0225	0.0246	7.4000e-004	0.0207	0.0215	0.0000	42.8431	42.8431	0.0132	0.0000	43.1725
Maximum	0.0432	0.3426	0.3522	4.9000e-004	2.1400e-003	0.0225	0.0246	7.4000e-004	0.0207	0.0215	0.0000	42.8431	42.8431	0.0132	0.0000	43.1725

	ROG	NOx	CO	SO2	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	98.27	0.00	83.14	94.24	0.00	36.07	0.00	0.00	0.00	0.00	0.00	0.00

Distribution - Yolo County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2233	0.2233
2	4-1-2020	6-30-2020	0.1586	0.1586
		Highest	0.2233	0.2233

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	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Energy	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	1.7805	1.7805	1.2000e-004	4.0000e-005	1.7940
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0162	0.0000	0.0162	9.6000e-004	0.0000	0.0402
Water						0.0000	0.0000		0.0000	0.0000	0.1560	0.3500	0.5060	0.0161	3.9000e-004	1.0223
Total	0.0132	0.0773	0.0765	1.0000e-004	0.0000	5.4900e-003	5.4900e-003	0.0000	5.0600e-003	5.0600e-003	0.1722	10.8595	11.0317	0.0200	4.3000e-004	11.6561

Distribution - Yolo 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	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Energy	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	1.2389	1.2389	7.0000e-005	2.0000e-005	1.2477
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0162	0.0000	0.0162	9.6000e-004	0.0000	0.0402
Water						0.0000	0.0000		0.0000	0.0000	0.1560	0.3500	0.5060	0.0161	3.9000e-004	1.0223
Total	0.0132	0.0773	0.0765	1.0000e-004	0.0000	5.4900e-003	5.4900e-003	0.0000	5.0600e-003	5.0600e-003	0.1722	10.3178	10.4901	0.0199	4.1000e-004	11.1098

	ROG	NOx	CO	SO2	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	4.99	4.91	0.25	4.65	4.69

3.0 Construction Detail**Construction Phase**

Distribution - Yolo County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.02

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 48 (Architectural Coating – sqft)

OffRoad Equipment

Distribution - Yolo County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Distribution - Yolo County, Annual

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Distribution - Yolo County, Annual

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Distribution - Yolo County, Annual

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

Distribution - Yolo County, Annual

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

Distribution - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	1.6900e-003	1.0000e-005	0.0570	0.0000	0.0570	5.7700e-003	0.0000	5.7700e-003	0.0000	0.4794	0.4794	1.0000e-005	0.0000	0.4797
Total	2.4000e-004	1.7000e-004	1.6900e-003	1.0000e-005	0.0570	0.0000	0.0570	5.7700e-003	0.0000	5.7700e-003	0.0000	0.4794	0.4794	1.0000e-005	0.0000	0.4797

Distribution - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	1.6900e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4794	0.4794	1.0000e-005	0.0000	0.4797
Total	2.4000e-004	1.7000e-004	1.6900e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4794	0.4794	1.0000e-005	0.0000	0.4797

Distribution - Yolo County, Annual

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9600e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Distribution - Yolo County, Annual

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9600e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Distribution - Yolo County, Annual

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	7.7300e-003	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

[illegible]

Distribution - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	7.7300e-003	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Distribution - Yolo County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Research & Development	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Research & Development	15.00	8.00	9.00	33.00	48.00	19.00	82	15	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Distribution - Yolo County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	0.5416	0.5416	5.0000e-005	1.0000e-005	0.5463
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.0833	1.0833	1.1000e-004	2.0000e-005	1.0926
NaturalGas Mitigated	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014
NaturalGas Unmitigated	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014

Distribution - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	13066	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014
Total		7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	13066	7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014
Total		7.0000e-005	6.4000e-004	5.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6973	0.6973	1.0000e-005	1.0000e-005	0.7014

Distribution - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	280	0.0368	0.0000	0.0000	0.0372
Research & Development	7955	1.0464	1.0000e-004	2.0000e-005	1.0555
Total		1.0832	1.0000e-004	2.0000e-005	1.0926

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	140	0.0184	0.0000	0.0000	0.0186
Research & Development	3977.5	0.5232	5.0000e-005	1.0000e-005	0.5277
Total		0.5416	5.0000e-005	1.0000e-005	0.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Distribution - Yolo 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	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Unmitigated	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

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	7.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Total	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

Distribution - Yolo 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	7.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Total	4.6700e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005

7.0 Water Detail**7.1 Mitigation Measures Water**

Distribution - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.5060	0.0161	3.9000e-004	1.0223
Unmitigated	0.5060	0.0161	3.9000e-004	1.0223

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.491694 / 0	0.5060	0.0161	3.9000e-004	1.0223
Total		0.5060	0.0161	3.9000e-004	1.0223

Distribution - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.491694 / 0	0.5060	0.0161	3.9000e-004	1.0223
Total		0.5060	0.0161	3.9000e-004	1.0223

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0162	9.6000e-004	0.0000	0.0402
Unmitigated	0.0162	9.6000e-004	0.0000	0.0402

Distribution - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.08	0.0162	9.6000e-004	0.0000	0.0402
Total		0.0162	9.6000e-004	0.0000	0.0402

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.08	0.0162	9.6000e-004	0.0000	0.0402
Total		0.0162	9.6000e-004	0.0000	0.0402

9.0 Operational Offroad

Distribution - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Distribution - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

Microbusiness - Yolo County, Summer

Microbusiness

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	1.50	1000sqft	0.03	1,500.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Microbusiness - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Microbusiness - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

Microbusiness - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.7140	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	4.7140	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.7140	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	4.7140	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Microbusiness - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003
Energy	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1048	0.5948	0.5894	7.9000e-004	0.0000	0.0423	0.0423	0.0000	0.0389	0.0389		80.3349	80.3349	0.0241	1.2000e-004	80.9710

Microbusiness - Yolo County, Summer

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	lb/day										lb/day					
Area	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003
Energy	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1048	0.5948	0.5894	7.9000e-004	0.0000	0.0423	0.0423	0.0000	0.0389	0.0389		80.3349	80.3349	0.0241	1.2000e-004	80.9710

	ROG	NOx	CO	SO2	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**

Microbusiness - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.08

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,250; Non-Residential Outdoor: 750; Striped Parking Area: 216 (Architectural Coating – sqft)

OffRoad Equipment

Microbusiness - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	2.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Microbusiness - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Microbusiness - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Microbusiness - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Microbusiness - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Microbusiness - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	0.8027	6.1000e-004	0.8033	0.0816	5.8000e-004	0.0822		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0106	6.1000e-003	0.0804	2.3000e-004	2.6706	1.4000e-004	2.6708	0.2701	1.3000e-004	0.2702		23.3033	23.3033	5.8000e-004		23.3177
Total	0.0143	0.1304	0.1024	5.7000e-004	3.4733	7.5000e-004	3.4741	0.3517	7.1000e-004	0.3524		58.6096	58.6096	1.9700e-003		58.6589

Microbusiness - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	7.9600e-003	6.1000e-004	8.5700e-003	2.3000e-003	5.8000e-004	2.8900e-003		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0106	6.1000e-003	0.0804	2.3000e-004	0.0216	1.4000e-004	0.0218	5.7600e-003	1.3000e-004	5.8900e-003		23.3033	23.3033	5.8000e-004		23.3177
Total	0.0143	0.1304	0.1024	5.7000e-004	0.0296	7.5000e-004	0.0303	8.0600e-003	7.1000e-004	8.7800e-003		58.6096	58.6096	1.9700e-003		58.6589

Microbusiness - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8135	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Microbusiness - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8135	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Microbusiness - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.4719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	4.7140	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

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

Microbusiness - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.4719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	4.7140	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Microbusiness - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Microbusiness - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547
NaturalGas Unmitigated	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547

Microbusiness - Yolo 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					
Manufacturing	53.6959	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547

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					
Manufacturing	0.0536959	5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.8000e-004	5.2600e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3172	6.3172	1.2000e-004	1.2000e-004	6.3547

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003
Unmitigated	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003
Total	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003

Microbusiness - Yolo 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	6.1300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003
Total	0.0396	1.0000e-005	1.0800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e-003	2.3000e-003	1.0000e-005		2.4500e-003

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
Forklifts	1	4.00	260	89	0.20	Diesel

Microbusiness - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Microbusiness - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

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Microbusiness

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	1.50	1000sqft	0.03	1,500.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

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Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0477	0.3491	0.3550	5.1000e-004	0.2147	0.0225	0.2372	0.0221	0.0208	0.0429	0.0000	44.9084	44.9084	0.0133	0.0000	45.2397
Maximum	0.0477	0.3491	0.3550	5.1000e-004	0.2147	0.0225	0.2372	0.0221	0.0208	0.0429	0.0000	44.9084	44.9084	0.0133	0.0000	45.2397

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0477	0.3491	0.3550	5.1000e-004	3.0500e-003	0.0225	0.0256	1.0000e-003	0.0208	0.0218	0.0000	44.9083	44.9083	0.0133	0.0000	45.2397
Maximum	0.0477	0.3491	0.3550	5.1000e-004	3.0500e-003	0.0225	0.0256	1.0000e-003	0.0208	0.0218	0.0000	44.9083	44.9083	0.0133	0.0000	45.2397

	ROG	NOx	CO	SO2	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	98.58	0.00	89.22	95.48	0.00	49.25	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2277	0.2277
2	4-1-2020	6-30-2020	0.1653	0.1653
		Highest	0.2277	0.2277

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	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004
Energy	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.7812	2.7812	1.9000e-004	6.0000e-005	2.8025
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.3776	0.0000	0.3776	0.0223	0.0000	0.9354
Water						0.0000	0.0000		0.0000	0.0000	0.1101	0.2469	0.3569	0.0113	2.7000e-004	0.7212
Total	0.0157	0.0776	0.0768	1.1000e-004	0.0000	5.5100e-003	5.5100e-003	0.0000	5.0800e-003	5.0800e-003	0.4876	11.7573	12.2449	0.0367	3.3000e-004	13.2588

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004
Energy	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.9136	1.9136	1.1000e-004	4.0000e-005	1.9273
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.3776	0.0000	0.3776	0.0223	0.0000	0.9354
Water						0.0000	0.0000		0.0000	0.0000	0.1101	0.2469	0.3569	0.0113	2.7000e-004	0.7212
Total	0.0157	0.0776	0.0768	1.1000e-004	0.0000	5.5100e-003	5.5100e-003	0.0000	5.0800e-003	5.0800e-003	0.4876	10.8896	11.3772	0.0366	3.1000e-004	12.3836

	ROG	NOx	CO	SO2	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	7.38	7.09	0.22	6.06	6.60

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.08

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,250; Non-Residential Outdoor: 750; Striped Parking Area: 216 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	2.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	0.0342	3.0000e-005	0.0343	3.4900e-003	3.0000e-005	3.5200e-003	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	4.7000e-004	3.4000e-004	3.3900e-003	1.0000e-005	0.1139	1.0000e-005	0.1139	0.0115	1.0000e-005	0.0116	0.0000	0.9589	0.9589	2.0000e-005	0.0000	0.9594
Total	6.6000e-004	6.6900e-003	4.5700e-003	3.0000e-005	0.1481	4.0000e-005	0.1482	0.0150	4.0000e-005	0.0151	0.0000	2.5447	2.5447	9.0000e-005	0.0000	2.5469

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.2000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	4.7000e-004	3.4000e-004	3.3900e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9589	0.9589	2.0000e-005	0.0000	0.9594
Total	6.6000e-004	6.6900e-003	4.5700e-003	3.0000e-005	1.4400e-003	4.0000e-005	1.4700e-003	3.9000e-004	4.0000e-005	4.3000e-004	0.0000	2.5447	2.5447	9.0000e-005	0.0000	2.5469

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3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

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3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

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3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0118	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

[illegible]

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3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0118	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	0.8677	0.8677	9.0000e-005	2.0000e-005	0.8752
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.7354	1.7354	1.7000e-004	4.0000e-005	1.7504
NaturalGas Mitigated	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521
NaturalGas Unmitigated	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	19599	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521

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					
Manufacturing	19599	1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.6000e-004	8.1000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0459	1.0459	2.0000e-005	2.0000e-005	1.0521

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	11932.5	1.5696	1.6000e-004	3.0000e-005	1.5832
Parking Lot	1260	0.1657	2.0000e-005	0.0000	0.1672
Total		1.7354	1.8000e-004	3.0000e-005	1.7504

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	5966.25	0.7848	8.0000e-005	2.0000e-005	0.7916
Parking Lot	630	0.0829	1.0000e-005	0.0000	0.0836
Total		0.8677	9.0000e-005	2.0000e-005	0.8752

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004
Unmitigated	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004

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	1.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004
Total	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004

Microbusiness - Yolo 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	1.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004
Total	7.2200e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9000e-004	1.9000e-004	0.0000	0.0000	2.0000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Microbusiness - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3569	0.0113	2.7000e-004	0.7212
Unmitigated	0.3569	0.0113	2.7000e-004	0.7212

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.346875 / 0	0.3569	0.0113	2.7000e-004	0.7212
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.3569	0.0113	2.7000e-004	0.7212

Microbusiness - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	0.346875 / 0	0.3569	0.0113	2.7000e-004	0.7212
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.3569	0.0113	2.7000e-004	0.7212

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3776	0.0223	0.0000	0.9354
Unmitigated	0.3776	0.0223	0.0000	0.9354

Microbusiness - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	1.86	0.3776	0.0223	0.0000	0.9354
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.3776	0.0223	0.0000	0.9354

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	1.86	0.3776	0.0223	0.0000	0.9354
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.3776	0.0223	0.0000	0.9354

9.0 Operational Offroad

Microbusiness - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Microbusiness - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

Nursery - Yolo County, Summer

Nursery

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	140.00	1000sqft	3.21	140,000.00	0
Parking Lot	72.00	Space	0.65	28,800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Nursery - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	8.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	4.00
tblConstructionPhase	NumDays	18.00	8.00
tblConstructionPhase	NumDays	5.00	2.00
tblConstructionPhase	PhaseEndDate	1/25/2021	6/26/2020
tblConstructionPhase	PhaseEndDate	12/4/2020	6/4/2020
tblConstructionPhase	PhaseEndDate	1/17/2020	1/8/2020
tblConstructionPhase	PhaseEndDate	12/30/2020	6/16/2020
tblConstructionPhase	PhaseEndDate	1/7/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	12/31/2020	6/17/2020

Nursery - Yolo County, Summer

tblConstructionPhase	PhaseStartDate	1/18/2020	1/9/2020
tblConstructionPhase	PhaseStartDate	1/8/2020	1/3/2020
tblConstructionPhase	PhaseStartDate	12/5/2020	6/5/2020
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

Nursery - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	245.1555	42.4722	22.2370	0.0401	117.2825	2.1987	118.2270	12.3616	2.0228	14.3843	0.0000	3,894.8314	3,894.8314	1.1970	0.0000	3,924.7570
Maximum	245.1555	42.4722	22.2370	0.0401	117.2825	2.1987	118.2270	12.3616	2.0228	14.3843	0.0000	3,894.8314	3,894.8314	1.1970	0.0000	3,924.7570

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	245.1555	42.4722	22.2370	0.0401	18.2609	2.1987	20.4595	9.9825	2.0228	12.0053	0.0000	3,894.8314	3,894.8314	1.1970	0.0000	3,924.7570
Maximum	245.1555	42.4722	22.2370	0.0401	18.2609	2.1987	20.4595	9.9825	2.0228	12.0053	0.0000	3,894.8314	3,894.8314	1.1970	0.0000	3,924.7570

	ROG	NOx	CO	SO2	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	84.43	0.00	82.69	19.25	0.00	16.54	0.00	0.00	0.00	0.00	0.00	0.00

Nursery - Yolo 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	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.6099	0.5927	0.6086	7.7000e-004	0.0000	0.0421	0.0421	0.0000	0.0388	0.0388		74.4319	74.4319	0.0242	0.0000	75.0364

Nursery - Yolo County, Summer

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	lb/day										lb/day					
Area	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.6099	0.5927	0.6086	7.7000e-004	0.0000	0.0421	0.0421	0.0000	0.0388	0.0388		74.4319	74.4319	0.0242	0.0000	75.0364

	ROG	NOx	CO	SO2	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**

Nursery - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/8/2020	5	4	
3	Building Construction	Building Construction	1/9/2020	6/4/2020	5	106	
4	Paving	Paving	6/5/2020	6/16/2020	5	8	
5	Architectural Coating	Architectural Coating	6/17/2020	6/26/2020	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.65

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000; Striped Parking Area: 1,728 (Architectural Coating – sqft)

OffRoad Equipment

Nursery - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	71.00	28.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

Nursery - Yolo County, Summer

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

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

Nursery - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Mitigated Construction On-Site

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

Nursery - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	7.0826	1.2734	8.3560	3.4247	1.1716	4.5963		2,872.4851	2,872.4851	0.9290		2,895.7106

Nursery - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0457	0.6028	1.7500e-003	20.0298	1.0500e-003	20.0309	2.0257	9.7000e-004	2.0267		174.7749	174.7749	4.3200e-003		174.8829
Total	0.0794	0.0457	0.6028	1.7500e-003	20.0298	1.0500e-003	20.0309	2.0257	9.7000e-004	2.0267		174.7749	174.7749	4.3200e-003		174.8829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6
Total	2.4288	26.3859	16.0530	0.0297	7.0826	1.2734	8.3560	3.4247	1.1716	4.5963	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6

Nursery - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0794	0.0457	0.6028	1.7500e-003	0.1622	1.0500e-003	0.1632	0.0432	9.7000e-004	0.0442		174.7749	174.7749	4.3200e-003		174.8829
Total	0.0794	0.0457	0.6028	1.7500e-003	0.1622	1.0500e-003	0.1632	0.0432	9.7000e-004	0.0442		174.7749	174.7749	4.3200e-003		174.8829

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402
Total	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402

Nursery - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1048	3.4810	0.6173	9.4400e-003	22.4747	0.0170	22.4917	2.2850	0.0163	2.3013		988.5758	988.5758	0.0391		989.5521
Worker	0.3757	0.2165	2.8533	8.3000e-003	94.8078	4.9600e-003	94.8128	9.5884	4.5700e-003	9.5930		827.2677	827.2677	0.0205		827.7791
Total	0.4805	3.6976	3.4706	0.0177	117.2825	0.0220	117.3045	11.8734	0.0209	11.8942		1,815.8435	1,815.8435	0.0595		1,817.3312

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402
Total	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402

Nursery - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1048	3.4810	0.6173	9.4400e-003	0.2229	0.0170	0.2399	0.0645	0.0163	0.0808		988.5758	988.5758	0.0391		989.5521
Worker	0.3757	0.2165	2.8533	8.3000e-003	0.7676	4.9600e-003	0.7725	0.2044	4.5700e-003	0.2090		827.2677	827.2677	0.0205		827.7791
Total	0.4805	3.6976	3.4706	0.0177	0.9905	0.0220	1.0125	0.2689	0.0209	0.2898		1,815.8435	1,815.8435	0.0595		1,817.3312

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.2129					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3966	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830

Nursery - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1058	0.0610	0.8037	2.3400e-003	26.7064	1.4000e-003	26.7078	2.7010	1.2900e-003	2.7023		233.0332	233.0332	5.7600e-003		233.1772
Total	0.1058	0.0610	0.8037	2.3400e-003	26.7064	1.4000e-003	26.7078	2.7010	1.2900e-003	2.7023		233.0332	233.0332	5.7600e-003		233.1772

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.2129					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3966	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830

Nursery - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1058	0.0610	0.8037	2.3400e-003	0.2162	1.4000e-003	0.2176	0.0576	1.2900e-003	0.0589		233.0332	233.0332	5.7600e-003		233.1772
Total	0.1058	0.0610	0.8037	2.3400e-003	0.2162	1.4000e-003	0.2176	0.0576	1.2900e-003	0.0589		233.0332	233.0332	5.7600e-003		233.1772

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	244.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	245.0814	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Nursery - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0741	0.0427	0.5626	1.6400e-003	18.6945	9.8000e-004	18.6955	1.8907	9.0000e-004	1.8916		163.1232	163.1232	4.0300e-003		163.2241
Total	0.0741	0.0427	0.5626	1.6400e-003	18.6945	9.8000e-004	18.6955	1.8907	9.0000e-004	1.8916		163.1232	163.1232	4.0300e-003		163.2241

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	244.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	245.0814	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Nursery - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0741	0.0427	0.5626	1.6400e-003	0.1514	9.8000e-004	0.1523	0.0403	9.0000e-004	0.0412		163.1232	163.1232	4.0300e-003		163.2241
Total	0.0741	0.0427	0.5626	1.6400e-003	0.1514	9.8000e-004	0.1523	0.0403	9.0000e-004	0.0412		163.1232	163.1232	4.0300e-003		163.2241

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Nursery - Yolo 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

Nursery - Yolo County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Nursery - Yolo 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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Nursery - Yolo County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495
Unmitigated	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495
Total	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495

Nursery - Yolo County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0300e-003	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495
Total	3.5449	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.2000e-004		0.0495

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
Forklifts	1	4.00	260	89	0.20	Diesel

Nursery - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869
Total	0.0650	0.5925	0.5868	7.7000e-004		0.0421	0.0421		0.0387	0.0387		74.3855	74.3855	0.0241		74.9869

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Nursery - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Nursery - Yolo County, Annual

Nursery

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	140.00	1000sqft	3.21	140,000.00	0
Parking Lot	72.00	Space	0.65	28,800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Nursery - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase - Adjusted construction schedule proportionally to fit into 6 months

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance. Assumed no natural gas use

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	8.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	4.00
tblConstructionPhase	NumDays	18.00	8.00
tblConstructionPhase	NumDays	5.00	2.00
tblConstructionPhase	PhaseEndDate	1/25/2021	6/26/2020
tblConstructionPhase	PhaseEndDate	12/4/2020	6/4/2020
tblConstructionPhase	PhaseEndDate	1/17/2020	1/8/2020
tblConstructionPhase	PhaseEndDate	12/30/2020	6/16/2020
tblConstructionPhase	PhaseEndDate	1/7/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	12/31/2020	6/17/2020

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tblConstructionPhase	PhaseStartDate	1/18/2020	1/9/2020
tblConstructionPhase	PhaseStartDate	1/8/2020	1/3/2020
tblConstructionPhase	PhaseStartDate	12/5/2020	6/5/2020
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	0.00
tblGrading	AcresOfGrading	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00

2.0 Emissions Summary

Nursery - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	1.1106	1.1178	1.0736	2.2600e-003	5.5443	0.0579	5.6022	0.5759	0.0545	0.6304	0.0000	200.2827	200.2827	0.0301	0.0000	201.0363
Maximum	1.1106	1.1178	1.0736	2.2600e-003	5.5443	0.0579	5.6022	0.5759	0.0545	0.6304	0.0000	200.2827	200.2827	0.0301	0.0000	201.0363

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	1.1106	1.1178	1.0736	2.2600e-003	0.0851	0.0579	0.1429	0.0312	0.0545	0.0857	0.0000	200.2826	200.2826	0.0301	0.0000	201.0361
Maximum	1.1106	1.1178	1.0736	2.2600e-003	0.0851	0.0579	0.1429	0.0312	0.0545	0.0857	0.0000	200.2826	200.2826	0.0301	0.0000	201.0361

	ROG	NOx	CO	SO2	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	98.47	0.00	97.45	94.59	0.00	86.41	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.7030	0.7030
2	4-1-2020	6-30-2020	1.4119	1.4119
		Highest	1.4119	1.4119

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	147.8240	147.8240	0.0148	3.0600e-003	149.1050
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	35.2392	0.0000	35.2392	2.0826	0.0000	87.3037
Water						0.0000	0.0000		0.0000	0.0000	10.2711	23.0436	33.3147	1.0572	0.0254	67.3109
Total	0.6634	0.1038	0.1080	1.4000e-004	0.0000	6.6900e-003	6.6900e-003	0.0000	6.2500e-003	6.2500e-003	45.5103	183.4520	228.9623	3.1580	0.0285	316.3885

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	73.9120	73.9120	7.3900e-003	1.5300e-003	74.5525
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Stationary	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Waste						0.0000	0.0000		0.0000	0.0000	35.2392	0.0000	35.2392	2.0826	0.0000	87.3037
Water						0.0000	0.0000		0.0000	0.0000	10.2711	23.0436	33.3147	1.0572	0.0254	67.3109
Total	0.6634	0.1038	0.1080	1.4000e-004	0.0000	6.6900e-003	6.6900e-003	0.0000	6.2500e-003	6.2500e-003	45.5103	109.5400	155.0503	3.1506	0.0269	241.8360

	ROG	NOx	CO	SO2	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	40.29	32.28	0.23	5.38	23.56

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/2/2020	5	2	
2	Grading	Grading	1/3/2020	1/8/2020	5	4	
3	Building Construction	Building Construction	1/9/2020	6/4/2020	5	106	
4	Paving	Paving	6/5/2020	6/16/2020	5	8	
5	Architectural Coating	Architectural Coating	6/17/2020	6/26/2020	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.65

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000; Striped Parking Area: 1,728 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	71.00	28.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	9.9300e-003	0.0000	9.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0800e-003	0.0424	0.0215	4.0000e-005		2.2000e-003	2.2000e-003		2.0200e-003	2.0200e-003	0.0000	3.3431	3.3431	1.0800e-003	0.0000	3.3701
Total	4.0800e-003	0.0424	0.0215	4.0000e-005	0.0181	2.2000e-003	0.0203	9.9300e-003	2.0200e-003	0.0120	0.0000	3.3431	3.3431	1.0800e-003	0.0000	3.3701

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3.2 Site Preparation - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1726	0.1726	0.0000	0.0000	0.1727
Total	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1726	0.1726	0.0000	0.0000	0.1727

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	9.9300e-003	0.0000	9.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0800e-003	0.0424	0.0215	4.0000e-005		2.2000e-003	2.2000e-003		2.0200e-003	2.0200e-003	0.0000	3.3431	3.3431	1.0800e-003	0.0000	3.3701
Total	4.0800e-003	0.0424	0.0215	4.0000e-005	0.0181	2.2000e-003	0.0203	9.9300e-003	2.0200e-003	0.0120	0.0000	3.3431	3.3431	1.0800e-003	0.0000	3.3701

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3.2 Site Preparation - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1726	0.1726	0.0000	0.0000	0.1727
Total	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1726	0.1726	0.0000	0.0000	0.1727

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8600e-003	0.0528	0.0321	6.0000e-005		2.5500e-003	2.5500e-003		2.3400e-003	2.3400e-003	0.0000	5.2118	5.2118	1.6900e-003	0.0000	5.2539
Total	4.8600e-003	0.0528	0.0321	6.0000e-005	0.0142	2.5500e-003	0.0167	6.8500e-003	2.3400e-003	9.1900e-003	0.0000	5.2118	5.2118	1.6900e-003	0.0000	5.2539

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3.3 Grading - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	0.0342	0.0000	0.0342	3.4600e-003	0.0000	3.4600e-003	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878
Total	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	0.0342	0.0000	0.0342	3.4600e-003	0.0000	3.4600e-003	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8600e-003	0.0528	0.0321	6.0000e-005		2.5500e-003	2.5500e-003		2.3400e-003	2.3400e-003	0.0000	5.2117	5.2117	1.6900e-003	0.0000	5.2539
Total	4.8600e-003	0.0528	0.0321	6.0000e-005	0.0142	2.5500e-003	0.0167	6.8500e-003	2.3400e-003	9.1900e-003	0.0000	5.2117	5.2117	1.6900e-003	0.0000	5.2539

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3.3 Grading - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878
Total	1.4000e-004	1.0000e-004	1.0200e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2877	0.2877	1.0000e-005	0.0000	0.2878

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0913	0.7668	0.7949	1.1600e-003		0.0489	0.0489		0.0462	0.0462	0.0000	99.2446	99.2446	0.0223	0.0000	99.8032
Total	0.0913	0.7668	0.7949	1.1600e-003		0.0489	0.0489		0.0462	0.0462	0.0000	99.2446	99.2446	0.0223	0.0000	99.8032

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6400e-003	0.1885	0.0349	5.0000e-004	1.0164	9.1000e-004	1.0173	0.1036	8.7000e-004	0.1045	0.0000	47.0669	47.0669	1.9800e-003	0.0000	47.1162
Worker	0.0179	0.0127	0.1276	4.0000e-004	4.2861	2.6000e-004	4.2864	0.4343	2.4000e-004	0.4345	0.0000	36.0820	36.0820	8.7000e-004	0.0000	36.1039
Total	0.0235	0.2012	0.1625	9.0000e-004	5.3025	1.1700e-003	5.3037	0.5379	1.1100e-003	0.5390	0.0000	83.1489	83.1489	2.8500e-003	0.0000	83.2201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0913	0.7668	0.7949	1.1600e-003		0.0489	0.0489		0.0462	0.0462	0.0000	99.2445	99.2445	0.0223	0.0000	99.8031
Total	0.0913	0.7668	0.7949	1.1600e-003		0.0489	0.0489		0.0462	0.0462	0.0000	99.2445	99.2445	0.0223	0.0000	99.8031

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6400e-003	0.1885	0.0349	5.0000e-004	0.0115	9.1000e-004	0.0124	3.3400e-003	8.7000e-004	4.2200e-003	0.0000	47.0669	47.0669	1.9800e-003	0.0000	47.1162
Worker	0.0179	0.0127	0.1276	4.0000e-004	0.0394	2.6000e-004	0.0397	0.0105	2.4000e-004	0.0108	0.0000	36.0820	36.0820	8.7000e-004	0.0000	36.1039
Total	0.0235	0.2012	0.1625	9.0000e-004	0.0509	1.1700e-003	0.0521	0.0139	1.1100e-003	0.0150	0.0000	83.1489	83.1489	2.8500e-003	0.0000	83.2201

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7300e-003	0.0472	0.0491	8.0000e-005		2.6000e-003	2.6000e-003		2.4000e-003	2.4000e-003	0.0000	6.5488	6.5488	2.0600e-003	0.0000	6.6003
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5800e-003	0.0472	0.0491	8.0000e-005		2.6000e-003	2.6000e-003		2.4000e-003	2.4000e-003	0.0000	6.5488	6.5488	2.0600e-003	0.0000	6.6003

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3.5 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	2.7100e-003	1.0000e-005	0.0911	1.0000e-005	0.0911	9.2300e-003	1.0000e-005	9.2400e-003	0.0000	0.7671	0.7671	2.0000e-005	0.0000	0.7676
Total	3.8000e-004	2.7000e-004	2.7100e-003	1.0000e-005	0.0911	1.0000e-005	0.0911	9.2300e-003	1.0000e-005	9.2400e-003	0.0000	0.7671	0.7671	2.0000e-005	0.0000	0.7676

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7300e-003	0.0472	0.0491	8.0000e-005		2.6000e-003	2.6000e-003		2.4000e-003	2.4000e-003	0.0000	6.5488	6.5488	2.0600e-003	0.0000	6.6002
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5800e-003	0.0472	0.0491	8.0000e-005		2.6000e-003	2.6000e-003		2.4000e-003	2.4000e-003	0.0000	6.5488	6.5488	2.0600e-003	0.0000	6.6002

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3.5 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	2.7100e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7671	0.7671	2.0000e-005	0.0000	0.7676
Total	3.8000e-004	2.7000e-004	2.7100e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7671	0.7671	2.0000e-005	0.0000	0.7676

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7000e-004	6.7400e-003	7.3300e-003	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	1.0213	1.0213	8.0000e-005	0.0000	1.0233
Total	0.9803	6.7400e-003	7.3300e-003	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	1.0213	1.0213	8.0000e-005	0.0000	1.0233

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3.6 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	1.9000e-003	1.0000e-005	0.0638	0.0000	0.0638	6.4600e-003	0.0000	6.4700e-003	0.0000	0.5370	0.5370	1.0000e-005	0.0000	0.5373
Total	2.7000e-004	1.9000e-004	1.9000e-003	1.0000e-005	0.0638	0.0000	0.0638	6.4600e-003	0.0000	6.4700e-003	0.0000	0.5370	0.5370	1.0000e-005	0.0000	0.5373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7000e-004	6.7400e-003	7.3300e-003	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	1.0213	1.0213	8.0000e-005	0.0000	1.0233
Total	0.9803	6.7400e-003	7.3300e-003	1.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	1.0213	1.0213	8.0000e-005	0.0000	1.0233

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3.6 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	1.9000e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5370	0.5370	1.0000e-005	0.0000	0.5373
Total	2.7000e-004	1.9000e-004	1.9000e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5370	0.5370	1.0000e-005	0.0000	0.5373

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	15.00	8.00	9.00	59.00	28.00	13.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

[illegible]

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5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.1137e+006	146.4981	0.0147	3.0300e-003	147.7676
Parking Lot	10080	1.3259	1.3000e-004	3.0000e-005	1.3374
Total		147.8240	0.0148	3.0600e-003	149.1050

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	556850	73.2490	7.3200e-003	1.5200e-003	73.8838
Parking Lot	5040	0.6630	7.0000e-005	1.0000e-005	0.6687
Total		73.9120	7.3900e-003	1.5300e-003	74.5525

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003
Unmitigated	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003
Total	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003
Total	0.6468	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0400e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.3147	1.0572	0.0254	67.3109
Unmitigated	33.3147	1.0572	0.0254	67.3109

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	32.375 / 0	33.3147	1.0572	0.0254	67.3109
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		33.3147	1.0572	0.0254	67.3109

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	32.375 / 0	33.3147	1.0572	0.0254	67.3109
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		33.3147	1.0572	0.0254	67.3109

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.2392	2.0826	0.0000	87.3037
Unmitigated	35.2392	2.0826	0.0000	87.3037

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	173.6	35.2392	2.0826	0.0000	87.3037
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		35.2392	2.0826	0.0000	87.3037

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	173.6	35.2392	2.0826	0.0000	87.3037
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		35.2392	2.0826	0.0000	87.3037

9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435
Total	8.4500e-003	0.0770	0.0763	1.0000e-004		5.4700e-003	5.4700e-003		5.0300e-003	5.0300e-003	0.0000	8.7726	8.7726	2.8400e-003	0.0000	8.8435

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213
Total	8.2000e-003	0.0268	0.0298	4.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	3.8080	3.8080	5.3000e-004	0.0000	3.8213

11.0 Vegetation

Processing - Yolo County, Summer

Processing Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	6.50	1000sqft	0.15	6,500.00	0
Parking Lot	7.00	Space	0.06	2,800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Processing - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxie for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Processing - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	0.50	0.35
tblEnergyUse	T24NG	6.11	4.28
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Processing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	18.5576	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	18.5576	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	18.5576	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	18.5576	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003
Energy	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2308	0.5970	0.5916	8.0000e-004	0.0000	0.0424	0.0424	0.0000	0.0391	0.0391		82.9791	82.9791	0.0241	1.6000e-004	83.6310

Processing - Yolo County, Summer

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	lb/day										lb/day					
Area	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003
Energy	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.2308	0.5970	0.5916	8.0000e-004	0.0000	0.0424	0.0424	0.0000	0.0391	0.0391		82.9791	82.9791	0.0241	1.6000e-004	83.6310

	ROG	NOx	CO	SO2	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**

Processing - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,750; Non-Residential Outdoor: 3,250; Striped Parking Area: 168 (Architectural Coating – sqft)

OffRoad Equipment

Processing - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	4.00	2.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Processing - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Processing - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Processing - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Processing - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Processing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4900e-003	0.2487	0.0441	6.7000e-004	1.6053	1.2200e-003	1.6066	0.1632	1.1600e-003	0.1644		70.6126	70.6126	2.7900e-003		70.6823
Worker	0.0212	0.0122	0.1608	4.7000e-004	5.3413	2.8000e-004	5.3416	0.5402	2.6000e-004	0.5405		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0287	0.2609	0.2048	1.1400e-003	6.9466	1.5000e-003	6.9481	0.7034	1.4200e-003	0.7048		117.2192	117.2192	3.9400e-003		117.3177

Processing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4900e-003	0.2487	0.0441	6.7000e-004	0.0159	1.2200e-003	0.0171	4.6100e-003	1.1600e-003	5.7700e-003		70.6126	70.6126	2.7900e-003		70.6823
Worker	0.0212	0.0122	0.1608	4.7000e-004	0.0432	2.8000e-004	0.0435	0.0115	2.6000e-004	0.0118		46.6066	46.6066	1.1500e-003		46.6354
Total	0.0287	0.2609	0.2048	1.1400e-003	0.0592	1.5000e-003	0.0607	0.0161	1.4200e-003	0.0175		117.2192	117.2192	3.9400e-003		117.3177

Processing - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8030	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Processing - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8030	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Processing - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.3101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	18.5523	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589

Processing - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.3101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	18.5523	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589

4.0 Operational Detail - Mobile

Processing - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	15.00	8.00	9.00	59.00	0.00	41.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Processing - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139
NaturalGas Unmitigated	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139

Processing - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	76.1658	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139
Total		8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0761658	8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139
Total		8.2000e-004	7.4700e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9607	8.9607	1.7000e-004	1.6000e-004	9.0139

6.0 Area Detail**6.1 Mitigation Measures Area**

Processing - Yolo 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	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003
Unmitigated	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0251					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003
Total	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003

Processing - Yolo County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0251					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003
Total	0.1653	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9500e-003	2.9500e-003	1.0000e-005		3.1500e-003

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
Forklifts	1	4.00	260	89	0.20	Diesel

Processing - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Processing - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Processing - Yolo County, Annual

Processing

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	6.50	1000sqft	0.15	6,500.00	0
Parking Lot	7.00	Space	0.06	2,800.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Processing - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Processing - Yolo County, Annual

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	0.50	0.35
tblEnergyUse	T24NG	6.11	4.28
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Processing - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0830	0.3558	0.3597	5.4000e-004	0.3657	0.0225	0.3882	0.0374	0.0208	0.0582	0.0000	47.4770	47.4770	0.0133	0.0000	47.8106
Maximum	0.0830	0.3558	0.3597	5.4000e-004	0.3657	0.0225	0.3882	0.0374	0.0208	0.0582	0.0000	47.4770	47.4770	0.0133	0.0000	47.8106

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0830	0.3558	0.3597	5.4000e-004	4.5100e-003	0.0225	0.0271	1.3900e-003	0.0208	0.0222	0.0000	47.4770	47.4770	0.0133	0.0000	47.8106
Maximum	0.0830	0.3558	0.3597	5.4000e-004	4.5100e-003	0.0225	0.0271	1.3900e-003	0.0208	0.0222	0.0000	47.4770	47.4770	0.0133	0.0000	47.8106

	ROG	NOx	CO	SO2	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	98.77	0.00	93.03	96.29	0.00	61.90	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Yolo County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2324	0.2324
2	4-1-2020	6-30-2020	0.2026	0.2026
		Highest	0.2324	0.2324

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004
Energy	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4173	5.4173	4.2000e-004	1.1000e-004	5.4602
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1.2403	0.0000	1.2403	0.0733	0.0000	3.0727
Water						0.0000	0.0000		0.0000	0.0000	0.4769	1.0699	1.5468	0.0491	1.1800e-003	3.1252
Total	0.0387	0.0780	0.0772	1.1000e-004	0.0000	5.5400e-003	5.5400e-003	0.0000	5.1100e-003	5.1100e-003	1.7171	15.2164	16.9335	0.1256	1.2900e-003	20.4579

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004
Energy	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	3.4504	3.4504	2.3000e-004	7.0000e-005	3.4763
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1.2403	0.0000	1.2403	0.0733	0.0000	3.0727
Water						0.0000	0.0000		0.0000	0.0000	0.4769	1.0699	1.5468	0.0491	1.1800e-003	3.1252
Total	0.0387	0.0780	0.0772	1.1000e-004	0.0000	5.5400e-003	5.5400e-003	0.0000	5.1100e-003	5.1100e-003	1.7171	13.2495	14.9666	0.1254	1.2500e-003	18.4739

	ROG	NOx	CO	SO2	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	12.93	11.62	0.15	3.10	9.70

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,750; Non-Residential Outdoor: 3,250; Striped Parking Area: 168 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	4.00	2.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0127	2.3500e-003	3.0000e-005	0.0685	6.0000e-005	0.0686	6.9800e-003	6.0000e-005	7.0400e-003	0.0000	3.1716	3.1716	1.3000e-004	0.0000	3.1750
Worker	9.5000e-004	6.8000e-004	6.7800e-003	2.0000e-005	0.2278	1.0000e-005	0.2278	0.0231	1.0000e-005	0.0231	0.0000	1.9177	1.9177	5.0000e-005	0.0000	1.9189
Total	1.3300e-003	0.0134	9.1300e-003	5.0000e-005	0.2963	7.0000e-005	0.2964	0.0301	7.0000e-005	0.0301	0.0000	5.0894	5.0894	1.8000e-004	0.0000	5.0938

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0127	2.3500e-003	3.0000e-005	7.8000e-004	6.0000e-005	8.4000e-004	2.3000e-004	6.0000e-005	2.8000e-004	0.0000	3.1716	3.1716	1.3000e-004	0.0000	3.1750
Worker	9.5000e-004	6.8000e-004	6.7800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1100e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.9177	1.9177	5.0000e-005	0.0000	1.9189
Total	1.3300e-003	0.0134	9.1300e-003	5.0000e-005	2.8700e-003	7.0000e-005	2.9500e-003	7.9000e-004	7.0000e-005	8.5000e-004	0.0000	5.0894	5.0894	1.8000e-004	0.0000	5.0938

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3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	8.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0100e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

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3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	8.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0100e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Processing - Yolo County, Annual

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0458					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0464	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Processing - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0458					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0464	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

4.0 Operational Detail - Mobile

Processing - Yolo County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	15.00	8.00	9.00	59.00	0.00	41.00	92	5	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Processing - Yolo County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	1.9669	1.9669	2.0000e-004	4.0000e-005	1.9839
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.9338	3.9338	3.9000e-004	8.0000e-005	3.9679
NaturalGas Mitigated	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924
NaturalGas Unmitigated	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924

Processing - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	27800.5	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924
Total		1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	27800.5	1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924
Total		1.5000e-004	1.3600e-003	1.1400e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4835	1.4835	3.0000e-005	3.0000e-005	1.4924

Processing - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	980	0.1289	1.0000e-005	0.0000	0.1300
Unrefrigerated Warehouse-No Rail	28925	3.8049	3.8000e-004	8.0000e-005	3.8378
Total		3.9338	3.9000e-004	8.0000e-005	3.9679

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	490	0.0645	1.0000e-005	0.0000	0.0650
Unrefrigerated Warehouse-No Rail	14462.5	1.9024	1.9000e-004	4.0000e-005	1.9189
Total		1.9669	2.0000e-004	4.0000e-005	1.9839

6.0 Area Detail**6.1 Mitigation Measures Area**

Processing - Yolo 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	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004

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	4.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004
Total	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004

Processing - Yolo 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	4.5800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004
Total	0.0302	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e-004	2.4000e-004	0.0000	0.0000	2.6000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Processing - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5468	0.0491	1.1800e-003	3.1252
Unmitigated	1.5468	0.0491	1.1800e-003	3.1252

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.50313 / 0	1.5468	0.0491	1.1800e-003	3.1252
Total		1.5468	0.0491	1.1800e-003	3.1252

Processing - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.50313 / 0	1.5468	0.0491	1.1800e-003	3.1252
Total		1.5468	0.0491	1.1800e-003	3.1252

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2403	0.0733	0.0000	3.0727
Unmitigated	1.2403	0.0733	0.0000	3.0727

Processing - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.11	1.2403	0.0733	0.0000	3.0727
Total		1.2403	0.0733	0.0000	3.0727

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.11	1.2403	0.0733	0.0000	3.0727
Total		1.2403	0.0733	0.0000	3.0727

9.0 Operational Offroad

Processing - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Processing - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

Retail - Yolo County, Summer

Retail Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Pharmacy/Drugstore w/o Drive Thru	2.40	1000sqft	0.06	2,400.00	0
Parking Lot	16.00	Space	0.14	6,400.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Retail - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxie for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Retail - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.90	2.73
tblEnergyUse	T24NG	11.34	7.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	90.06	0.00
tblVehicleTrips	SU_TR	90.06	0.00
tblVehicleTrips	WD_TR	90.06	0.00

2.0 Emissions Summary

Retail - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.4558	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	7.4558	8.4459	8.0244	0.0134	24.0358	0.4679	24.4321	2.4309	0.4463	2.7989	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.4558	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464
Maximum	7.4558	8.4459	8.0244	0.0134	0.8609	0.4679	1.3288	0.4426	0.4463	0.8889	0.0000	1,263.7518	1,263.7518	0.3068	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Retail - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003
Energy	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1289	0.5949	0.5903	7.9000e-004	0.0000	0.0423	0.0423	0.0000	0.0389	0.0389		80.4385	80.4385	0.0241	1.2000e-004	81.0754

Retail - Yolo County, Summer

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	lb/day										lb/day					
Area	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003
Energy	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1289	0.5949	0.5903	7.9000e-004	0.0000	0.0423	0.0423	0.0000	0.0389	0.0389		80.4385	80.4385	0.0241	1.2000e-004	81.0754

	ROG	NOx	CO	SO2	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**

Retail - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,600; Non-Residential Outdoor: 1,200; Striped Parking Area: 384 (Architectural Coating – sqft)

OffRoad Equipment

Retail - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	3.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Retail - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Retail - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Retail - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Retail - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Retail - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783		823.5833	823.5833	0.2664		830.2424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	0.8027	6.1000e-004	0.8033	0.0816	5.8000e-004	0.0822		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0159	9.1500e-003	0.1206	3.5000e-004	4.0060	2.1000e-004	4.0062	0.4051	1.9000e-004	0.4053		34.9550	34.9550	8.6000e-004		34.9766
Total	0.0196	0.1335	0.1426	6.9000e-004	4.8086	8.2000e-004	4.8095	0.4868	7.7000e-004	0.4875		70.2613	70.2613	2.2500e-003		70.3177

Retail - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424
Total	0.6350	6.1566	6.3298	8.5000e-003		0.4112	0.4112		0.3783	0.3783	0.0000	823.5833	823.5833	0.2664		830.2424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	7.9600e-003	6.1000e-004	8.5700e-003	2.3000e-003	5.8000e-004	2.8900e-003		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0159	9.1500e-003	0.1206	3.5000e-004	0.0324	2.1000e-004	0.0326	8.6400e-003	1.9000e-004	8.8300e-003		34.9550	34.9550	8.6000e-004		34.9766
Total	0.0196	0.1335	0.1426	6.9000e-004	0.0404	8.2000e-004	0.0412	0.0109	7.7000e-004	0.0117		70.2613	70.2613	2.2500e-003		70.3177

Retail - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8449	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Retail - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8449	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Retail - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.2084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	7.4505	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	1.3353	7.0000e-005	1.3354	0.1351	6.0000e-005	0.1351		11.6517	11.6517	2.9000e-004		11.6589

Retail - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.2084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	7.4505	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589
Total	5.2900e-003	3.0500e-003	0.0402	1.2000e-004	0.0108	7.0000e-005	0.0109	2.8800e-003	6.0000e-005	2.9400e-003		11.6517	11.6517	2.9000e-004		11.6589

4.0 Operational Detail - Mobile

Retail - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Pharmacy/Drugstore w/o Drive Thru	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Pharmacy/Drugstore w/o Drive	15.00	8.00	9.00	7.40	73.60	19.00	41	6	53
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Retail - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Pharmacy/Drugstore w/o Drive Thru	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572
NaturalGas Unmitigated	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572

Retail - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	54.5622	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572
Total		5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	0.0545622	5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572
Total		5.9000e-004	5.3500e-003	4.4900e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4191	6.4191	1.2000e-004	1.2000e-004	6.4572

6.0 Area Detail**6.1 Mitigation Measures Area**

Retail - Yolo 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	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003
Unmitigated	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003
Total	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003

Retail - Yolo 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	9.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0536					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003
Total	0.0637	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0300e-003	4.0300e-003	1.0000e-005		4.2900e-003

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
Forklifts	1	4.00	260	89	0.20	Diesel

Retail - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Retail - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

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Retail

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Pharmacy/Drugstore w/o Drive Thru	2.40	1000sqft	0.06	2,400.00	0
Parking Lot	16.00	Space	0.14	6,400.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

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Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.90	2.73
tblEnergyUse	T24NG	11.34	7.94
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	90.06	0.00
tblVehicleTrips	SU_TR	90.06	0.00
tblVehicleTrips	WD_TR	90.06	0.00

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0549	0.3493	0.3568	5.2000e-004	0.2745	0.0225	0.2970	0.0282	0.0208	0.0489	0.0000	45.4118	45.4118	0.0133	0.0000	45.7434
Maximum	0.0549	0.3493	0.3568	5.2000e-004	0.2745	0.0225	0.2970	0.0282	0.0208	0.0489	0.0000	45.4118	45.4118	0.0133	0.0000	45.7434

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0549	0.3493	0.3568	5.2000e-004	3.6000e-003	0.0225	0.0261	1.1400e-003	0.0208	0.0219	0.0000	45.4117	45.4117	0.0133	0.0000	45.7434
Maximum	0.0549	0.3493	0.3568	5.2000e-004	3.6000e-003	0.0225	0.0261	1.1400e-003	0.0208	0.0219	0.0000	45.4117	45.4117	0.0133	0.0000	45.7434

	ROG	NOx	CO	SO2	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	98.69	0.00	91.21	95.95	0.00	55.23	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2280	0.2280
2	4-1-2020	6-30-2020	0.1724	0.1724
		Highest	0.2280	0.2280

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.7101	4.7101	3.9000e-004	9.0000e-005	4.7481
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1.4656	0.0000	1.4656	0.0866	0.0000	3.6310
Water						0.0000	0.0000		0.0000	0.0000	0.0536	0.1681	0.2217	5.5300e-003	1.3000e-004	0.3996
Total	0.0201	0.0776	0.0769	1.1000e-004	0.0000	5.5100e-003	5.5100e-003	0.0000	5.0800e-003	5.0800e-003	1.5192	13.6075	15.1267	0.0954	2.2000e-004	17.5785

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Energy	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.8865	2.8865	2.0000e-004	6.0000e-005	2.9086
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	1.4656	0.0000	1.4656	0.0866	0.0000	3.6310
Water						0.0000	0.0000		0.0000	0.0000	0.0536	0.1681	0.2217	5.5300e-003	1.3000e-004	0.3996
Total	0.0201	0.0776	0.0769	1.1000e-004	0.0000	5.5100e-003	5.5100e-003	0.0000	5.0800e-003	5.0800e-003	1.5192	11.7838	13.3030	0.0952	1.9000e-004	15.7390

	ROG	NOx	CO	SO2	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	13.40	12.06	0.20	13.64	10.46

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,600; Non-Residential Outdoor: 1,200; Striped Parking Area: 384 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	3.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6592

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	0.0342	3.0000e-005	0.0343	3.4900e-003	3.0000e-005	3.5200e-003	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	7.1000e-004	5.1000e-004	5.0800e-003	2.0000e-005	0.1709	1.0000e-005	0.1709	0.0173	1.0000e-005	0.0173	0.0000	1.4383	1.4383	3.0000e-005	0.0000	1.4392
Total	9.0000e-004	6.8600e-003	6.2600e-003	4.0000e-005	0.2051	4.0000e-005	0.2051	0.0208	4.0000e-005	0.0208	0.0000	3.0241	3.0241	1.0000e-004	0.0000	3.0266

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591
Total	0.0318	0.3078	0.3165	4.3000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	37.3571	37.3571	0.0121	0.0000	37.6591

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.2000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	7.1000e-004	5.1000e-004	5.0800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4383	1.4383	3.0000e-005	0.0000	1.4392
Total	9.0000e-004	6.8600e-003	6.2600e-003	4.0000e-005	1.9600e-003	4.0000e-005	2.0000e-003	5.3000e-004	4.0000e-005	5.7000e-004	0.0000	3.0241	3.0241	1.0000e-004	0.0000	3.0266

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3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1100e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

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3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1100e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

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3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0186	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

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3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0186	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

4.0 Operational Detail - Mobile

Retail - Yolo County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Pharmacy/Drugstore w/o Drive Thru	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Pharmacy/Drugstore w/o Drive	15.00	8.00	9.00	7.40	73.60	19.00	41	6	53
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Retail - Yolo County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Pharmacy/Drugstore w/o Drive Thru	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	1.8237	1.8237	1.8000e-004	4.0000e-005	1.8395
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.6474	3.6474	3.6000e-004	8.0000e-005	3.6790
NaturalGas Mitigated	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691
NaturalGas Unmitigated	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691

Retail - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	19915.2	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691
Total		1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	19915.2	1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691
Total		1.1000e-004	9.8000e-004	8.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0628	1.0628	2.0000e-005	2.0000e-005	1.0691

Retail - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	2240	0.2947	3.0000e-005	1.0000e-005	0.2972
Pharmacy/Drugstore w/o Drive Thru	25488	3.3527	3.4000e-004	7.0000e-005	3.3818
Total		3.6474	3.7000e-004	8.0000e-005	3.6790

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	1120	0.1473	1.0000e-005	0.0000	0.1486
Pharmacy/Drugstore w/o Drive Thru	12744	1.6764	1.7000e-004	3.0000e-005	1.6909
Total		1.8237	1.8000e-004	3.0000e-005	1.8395

6.0 Area Detail**6.1 Mitigation Measures Area**

Retail - Yolo 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	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Unmitigated	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004

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	1.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004

Retail - Yolo 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	1.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004
Total	0.0116	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.3000e-004	3.3000e-004	0.0000	0.0000	3.5000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Retail - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2217	5.5300e-003	1.3000e-004	0.3996
Unmitigated	0.2217	5.5300e-003	1.3000e-004	0.3996

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	0.169074 / 0.103626	0.2217	5.5300e-003	1.3000e-004	0.3996
Total		0.2217	5.5300e-003	1.3000e-004	0.3996

Retail - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	0.169074 / 0.103626	0.2217	5.5300e-003	1.3000e-004	0.3996
Total		0.2217	5.5300e-003	1.3000e-004	0.3996

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4656	0.0866	0.0000	3.6310
Unmitigated	1.4656	0.0866	0.0000	3.6310

Retail - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	7.22	1.4656	0.0866	0.0000	3.6310
Total		1.4656	0.0866	0.0000	3.6310

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore w/o Drive Thru	7.22	1.4656	0.0866	0.0000	3.6310
Total		1.4656	0.0866	0.0000	3.6310

9.0 Operational Offroad

Retail - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Retail - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

Testing - Yolo County, Summer

Testing

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	2.80	1000sqft	0.06	2,800.00	0
Parking Lot	6.00	Space	0.05	2,400.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Testing - Yolo County, Summer

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Testing - Yolo County, Summer

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	WD_TR	8.11	0.00

2.0 Emissions Summary

Testing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.2292	8.9827	8.0244	0.0134	24.0358	0.5231	24.4321	2.4309	0.4813	2.7989	0.0000	1,263.7518	1,263.7518	0.3587	0.0000	1,269.2464
Maximum	8.2292	8.9827	8.0244	0.0134	24.0358	0.5231	24.4321	2.4309	0.4813	2.7989	0.0000	1,263.7518	1,263.7518	0.3587	0.0000	1,269.2464

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.2292	8.9827	8.0244	0.0134	0.8609	0.5231	1.3288	0.4426	0.4813	0.8889	0.0000	1,263.7518	1,263.7518	0.3587	0.0000	1,269.2464
Maximum	8.2292	8.9827	8.0244	0.0134	0.8609	0.5231	1.3288	0.4426	0.4813	0.8889	0.0000	1,263.7518	1,263.7518	0.3587	0.0000	1,269.2464

	ROG	NOx	CO	SO2	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	96.42	0.00	94.56	81.79	0.00	68.24	0.00	0.00	0.00	0.00	0.00	0.00

Testing - Yolo County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Energy	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1375	0.5994	0.5931	8.2000e-004	0.0000	0.0426	0.0426	0.0000	0.0393	0.0393		85.8094	85.8094	0.0242	2.2000e-004	86.4780

Testing - Yolo County, Summer

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	lb/day										lb/day					
Area	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Energy	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1375	0.5994	0.5931	8.2000e-004	0.0000	0.0426	0.0426	0.0000	0.0393	0.0393		85.8094	85.8094	0.0242	2.2000e-004	86.4780

	ROG	NOx	CO	SO2	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**

Testing - Yolo County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area: 144 (Architectural Coating – sqft)

OffRoad Equipment

Testing - Yolo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Testing - Yolo County, Summer

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	6.6766	3.5000e-004	6.6770	0.6752	3.2000e-004	0.6756		58.2583	58.2583	1.4400e-003		58.2943

Testing - Yolo County, Summer

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943
Total	0.0265	0.0153	0.2009	5.8000e-004	0.0541	3.5000e-004	0.0544	0.0144	3.2000e-004	0.0147		58.2583	58.2583	1.4400e-003		58.2943

Testing - Yolo County, Summer

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	13.3532	7.0000e-004	13.3539	1.3505	6.4000e-004	1.3511		116.5166	116.5166	2.8800e-003		116.5886

Testing - Yolo County, Summer

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.235 2	1,147.235 2	0.2169		1,152.657 8
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595	0.0000	1,147.235 2	1,147.235 2	0.2169		1,152.657 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886
Total	0.0529	0.0305	0.4019	1.1700e-003	0.1081	7.0000e-004	0.1088	0.0288	6.4000e-004	0.0294		116.5166	116.5166	2.8800e-003		116.5886

Testing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.896 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	0.8027	6.1000e-004	0.8033	0.0816	5.8000e-004	0.0822		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0106	6.1000e-003	0.0804	2.3000e-004	2.6706	1.4000e-004	2.6708	0.2701	1.3000e-004	0.2702		23.3033	23.3033	5.8000e-004		23.3177
Total	0.0143	0.1304	0.1024	5.7000e-004	3.4733	7.5000e-004	3.4741	0.3517	7.1000e-004	0.3524		58.6096	58.6096	1.9700e-003		58.6589

Testing - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.978 1	1,102.978 1	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.978 1	1,102.978 1	0.3567		1,111.896 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7400e-003	0.1243	0.0221	3.4000e-004	7.9600e-003	6.1000e-004	8.5700e-003	2.3000e-003	5.8000e-004	2.8900e-003		35.3063	35.3063	1.3900e-003		35.3412
Worker	0.0106	6.1000e-003	0.0804	2.3000e-004	0.0216	1.4000e-004	0.0218	5.7600e-003	1.3000e-004	5.8900e-003		23.3033	23.3033	5.8000e-004		23.3177
Total	0.0143	0.1304	0.1024	5.7000e-004	0.0296	7.5000e-004	0.0303	8.0600e-003	7.1000e-004	8.7800e-003		58.6096	58.6096	1.9700e-003		58.6589

Testing - Yolo County, Summer

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0262					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7978	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	24.0358	1.2600e-003	24.0370	2.4309	1.1600e-003	2.4320		209.7298	209.7298	5.1900e-003		209.8595

Testing - Yolo County, Summer

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0262					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7978	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595
Total	0.0952	0.0549	0.7234	2.1100e-003	0.1946	1.2600e-003	0.1959	0.0518	1.1600e-003	0.0530		209.7298	209.7298	5.1900e-003		209.8595

Testing - Yolo County, Summer

3.6 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.9870					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	8.2292	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

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

Testing - Yolo County, Summer

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.9870					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	8.2292	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Testing - Yolo County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Research & Development	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Research & Development	15.00	8.00	9.00	33.00	48.00	19.00	82	15	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Testing - Yolo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621
NaturalGas Unmitigated	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621

Testing - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	100.232	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621
Total		1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	0.100232	1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621
Total		1.0800e-003	9.8300e-003	8.2500e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.7920	11.7920	2.3000e-004	2.2000e-004	11.8621

6.0 Area Detail**6.1 Mitigation Measures Area**

Testing - Yolo 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	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Unmitigated	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Total	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003

Testing - Yolo County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Total	0.0718	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003

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
Forklifts	1	4.00	260	89	0.20	Diesel

Testing - Yolo County, Summer

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139
Total	0.0647	0.5896	0.5839	7.6000e-004		0.0419	0.0419		0.0385	0.0385		74.0154	74.0154	0.0239		74.6139

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Testing - Yolo County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Testing - Yolo County, Annual

Testing

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	2.80	1000sqft	0.06	2,800.00	0
Parking Lot	6.00	Space	0.05	2,400.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Testing - Yolo County, Annual

Project Characteristics - 2020 PG&E emissions factor assumed to comply with RPS requirements.

Land Use -

Construction Phase -

Off-road Equipment - No crane assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - No increase in VMT assumed

Energy Use - 30% reduction in energy consumption for 2019 Title 24 compliance.

Water And Wastewater -

Operational Off-Road Equipment - Proxy for 1 traditional utility vehicle (e.g., Deere Gator) 4 hours per day per mixed-light license (1 total).

Energy Mitigation - CLUO requires 50 percent renewable energy

Stationary Sources - Emergency Generators and Fire Pumps -

Testing - Yolo County, Annual

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	1.65	1.16
tblEnergyUse	T24NG	18.58	13.01
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	WD_TR	8.11	0.00

2.0 Emissions Summary

Testing - Yolo County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0678	0.4839	0.4079	6.6000e-004	0.2147	0.0281	0.2427	0.0221	0.0259	0.0480	0.0000	57.5815	57.5815	0.0174	0.0000	58.0153
Maximum	0.0678	0.4839	0.4079	6.6000e-004	0.2147	0.0281	0.2427	0.0221	0.0259	0.0480	0.0000	57.5815	57.5815	0.0174	0.0000	58.0153

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0678	0.4839	0.4079	6.6000e-004	3.0500e-003	0.0281	0.0311	1.0000e-003	0.0259	0.0269	0.0000	57.5815	57.5815	0.0174	0.0000	58.0153
Maximum	0.0678	0.4839	0.4079	6.6000e-004	3.0500e-003	0.0281	0.0311	1.0000e-003	0.0259	0.0269	0.0000	57.5815	57.5815	0.0174	0.0000	58.0153

	ROG	NOx	CO	SO2	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	98.58	0.00	87.18	95.48	0.00	44.01	0.00	0.00	0.00	0.00	0.00	0.00

Testing - Yolo County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.3196	0.3196
2	4-1-2020	6-30-2020	0.2283	0.2283
		Highest	0.3196	0.3196

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	4.9928	4.9928	3.4000e-004	1.0000e-004	5.0307
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0426	0.0000	0.0426	2.5200e-003	0.0000	0.1056
Water						0.0000	0.0000		0.0000	0.0000	0.4368	0.9799	1.4167	0.0450	1.0800e-003	2.8624
Total	0.0217	0.0784	0.0775	1.1000e-004	0.0000	5.5800e-003	5.5800e-003	0.0000	5.1500e-003	5.1500e-003	0.4794	14.7018	15.1812	0.0506	1.1800e-003	16.7984

Testing - Yolo 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	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	3.4725	3.4725	1.9000e-004	7.0000e-005	3.4973
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0426	0.0000	0.0426	2.5200e-003	0.0000	0.1056
Water						0.0000	0.0000		0.0000	0.0000	0.4368	0.9799	1.4167	0.0450	1.0800e-003	2.8624
Total	0.0217	0.0784	0.0775	1.1000e-004	0.0000	5.5800e-003	5.5800e-003	0.0000	5.1500e-003	5.1500e-003	0.4794	13.1816	13.6610	0.0505	1.1500e-003	15.2650

	ROG	NOx	CO	SO2	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	10.34	10.01	0.30	2.54	9.13

3.0 Construction Detail**Construction Phase**

Testing - Yolo County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/1/2020	5	1	
2	Grading	Grading	1/2/2020	1/3/2020	5	2	
3	Building Construction	Building Construction	1/4/2020	5/22/2020	5	100	
4	Paving	Paving	5/23/2020	5/29/2020	5	5	
5	Architectural Coating	Architectural Coating	5/30/2020	6/5/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area: 144 (Architectural Coating – sqft)

OffRoad Equipment

Testing - Yolo County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	15.00	9.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Testing - Yolo County, Annual

3.2 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.8500e-003	0.0000	2.8500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Testing - Yolo County, Annual

3.2 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0240	0.0240	0.0000	0.0000	0.0240

Testing - Yolo County, Annual

3.3 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	0.0114	0.0000	0.0114	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

Testing - Yolo County, Annual

3.3 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005	7.5000e-004	4.7000e-004	1.2200e-003	4.1000e-004	4.5000e-004	8.6000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959
Total	5.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0959	0.0959	0.0000	0.0000	0.0959

Testing - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4348
Total	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4348

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	0.0342	3.0000e-005	0.0343	3.4900e-003	3.0000e-005	3.5200e-003	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	4.7000e-004	3.4000e-004	3.3900e-003	1.0000e-005	0.1139	1.0000e-005	0.1139	0.0115	1.0000e-005	0.0116	0.0000	0.9589	0.9589	2.0000e-005	0.0000	0.9594
Total	6.6000e-004	6.6900e-003	4.5700e-003	3.0000e-005	0.1481	4.0000e-005	0.1482	0.0150	4.0000e-005	0.0151	0.0000	2.5447	2.5447	9.0000e-005	0.0000	2.5469

Testing - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4347
Total	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4347

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.3500e-003	1.1800e-003	2.0000e-005	3.9000e-004	3.0000e-005	4.2000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5858	1.5858	7.0000e-005	0.0000	1.5875
Worker	4.7000e-004	3.4000e-004	3.3900e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9589	0.9589	2.0000e-005	0.0000	0.9594
Total	6.6000e-004	6.6900e-003	4.5700e-003	3.0000e-005	1.4400e-003	4.0000e-005	1.4700e-003	3.9000e-004	4.0000e-005	4.3000e-004	0.0000	2.5447	2.5447	9.0000e-005	0.0000	2.5469

Testing - Yolo County, Annual

3.5 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	7.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	0.0513	0.0000	0.0513	5.1900e-003	0.0000	5.2000e-003	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Testing - Yolo County, Annual

3.5 Paving - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	7.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318
Total	2.1000e-004	1.5000e-004	1.5300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4315	0.4315	1.0000e-005	0.0000	0.4318

Testing - Yolo County, Annual

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0206	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Unmitigated Construction Off-Site

[illegible]

Testing - Yolo County, Annual

3.6 Architectural Coating - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0206	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Testing - Yolo County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Research & Development	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Research & Development	15.00	8.00	9.00	33.00	48.00	19.00	82	15	3
Parking Lot	15.00	8.00	9.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Testing - Yolo County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835
Parking Lot	0.489634	0.040733	0.207886	0.122965	0.024655	0.005612	0.057735	0.040460	0.001009	0.001812	0.005896	0.000768	0.000835

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	1.5202	1.5202	1.5000e-004	3.0000e-005	1.5334
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.0405	3.0405	3.0000e-004	6.0000e-005	3.0668
NaturalGas Mitigated	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639
NaturalGas Unmitigated	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639

Testing - Yolo 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	36584.8	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639
Total		2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	36584.8	2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639
Total		2.0000e-004	1.7900e-003	1.5100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9523	1.9523	4.0000e-005	4.0000e-005	1.9639

Testing - Yolo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	840	0.1105	1.0000e-005	0.0000	0.1115
Research & Development	22274	2.9300	2.9000e-004	6.0000e-005	2.9554
Total		3.0405	3.0000e-004	6.0000e-005	3.0668

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	420	0.0553	1.0000e-005	0.0000	0.0557
Research & Development	11137	1.4650	1.5000e-004	3.0000e-005	1.4777
Total		1.5202	1.6000e-004	3.0000e-005	1.5334

6.0 Area Detail**6.1 Mitigation Measures Area**

Testing - Yolo 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	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Unmitigated	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

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	2.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Total	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

Testing - Yolo 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	2.0000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Total	0.0131	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Testing - Yolo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4167	0.0450	1.0800e-003	2.8624
Unmitigated	1.4167	0.0450	1.0800e-003	2.8624

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.37674 / 0	1.4167	0.0450	1.0800e-003	2.8624
Total		1.4167	0.0450	1.0800e-003	2.8624

Testing - Yolo County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.37674 / 0	1.4167	0.0450	1.0800e-003	2.8624
Total		1.4167	0.0450	1.0800e-003	2.8624

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0426	2.5200e-003	0.0000	0.1056
Unmitigated	0.0426	2.5200e-003	0.0000	0.1056

Testing - Yolo County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.21	0.0426	2.5200e-003	0.0000	0.1056
Total		0.0426	2.5200e-003	0.0000	0.1056

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	0.21	0.0426	2.5200e-003	0.0000	0.1056
Total		0.0426	2.5200e-003	0.0000	0.1056

9.0 Operational Offroad

Testing - Yolo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	1	4.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995
Total	8.4100e-003	0.0766	0.0759	1.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	8.7289	8.7289	2.8200e-003	0.0000	8.7995

10.0 Stationary EquipmentFire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	200	50	0.73	Diesel

Boilers

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

Equipment Type	Number
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Testing - Yolo County, Annual

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation