

APPENDIX A

Air CalEEMod

Farmstead Project
Yolo/Solano AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	130.00	Dwelling Unit	11.10	688,248.00	372
City Park	3.40	Acre	3.40	148,104.00	0
Other Asphalt Surfaces	6.90	Acre	6.90	300,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	55
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Farmstead Project. YSAQMD. CO2 adjusted to meet 33% RPS.
 Land Use - 130 single family homes developed on a 21.4 acre site including 3.4 acres in park/trails and 6.9 acres in roadway.
 Construction Phase - Construction would last December 2019 through February 2022.
 Off-road Equipment - Default
 Off-road Equipment - Default
 Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - 2 excavators and 1 rubber tired dozer assumed per data request.

Grading - Assumed soil balanced onsite.

Demolition - 4,496 sf in structures removed

Trips and VMT - Default

Road Dust - 100% of roadways traversed in operations assumed to be paved.

Construction Off-road Equipment Mitigation - Water exposed area twice daily.

On-road Fugitive Dust - 100% of roadways assumed to be paved.

Waste Mitigation - A 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Woodstoves - Fireplaces assumed to be gas fueled rather than wood fueled. Default quantities also assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	171.00
tblConstructionPhase	NumDays	370.00	300.00
tblConstructionPhase	NumDays	35.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	9/24/2021	2/18/2022
tblConstructionPhase	PhaseEndDate	7/30/2021	1/21/2022
tblConstructionPhase	PhaseEndDate	2/28/2020	3/20/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	4/17/2020
tblConstructionPhase	PhaseEndDate	1/10/2020	2/7/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/29/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	1/11/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	7/31/2021	3/21/2020
tblFireplaces	FireplaceWoodMass	520.00	0.00
tblFireplaces	NumberGas	0.00	40.30

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tblFireplaces	NumberWood	40.30	0.00
tblLandUse	LandUseSquareFeet	234,000.00	688,248.00
tblLandUse	LotAcreage	42.21	11.10
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblRoadDust	RoadPercentPave	94	100
tblWoodstoves	WoodstoveWoodMass	3,120.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1780	0.0385	0.9772	2.3000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458
Energy	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	440.0093	440.0093	0.0177	6.5600e-003	442.4064
Mobile	0.3486	2.4098	3.7484	0.0169	1.2335	0.0112	1.2447	0.3321	0.0105	0.3426	0.0000	1,559.8472	1,559.8472	0.0662	0.0000	1,561.5022
Waste						0.0000	0.0000		0.0000	0.0000	29.5088	0.0000	29.5088	1.7439	0.0000	73.1068
Water						0.0000	0.0000		0.0000	0.0000	2.6872	17.8365	20.5237	0.2770	6.7300e-003	29.4553
Total	3.5470	2.6224	4.7997	0.0182	1.2335	0.0329	1.2664	0.3321	0.0321	0.3642	32.1960	2,051.0122	2,083.2081	2.1070	0.0139	2,140.0164

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	3.1780	0.0385	0.9772	2.3000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458
Energy	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	440.0093	440.0093	0.0177	6.5600e-003	442.4064
Mobile	0.3486	2.4098	3.7484	0.0169	1.2335	0.0112	1.2447	0.3321	0.0105	0.3426	0.0000	1,559.8472	1,559.8472	0.0662	0.0000	1,561.5022
Waste						0.0000	0.0000		0.0000	0.0000	7.3772	0.0000	7.3772	0.4360	0.0000	18.2767
Water						0.0000	0.0000		0.0000	0.0000	2.1497	14.2692	16.4190	0.2216	5.3800e-003	23.5643
Total	3.5470	2.6224	4.7997	0.0182	1.2335	0.0329	1.2664	0.3321	0.0321	0.3642	9.5269	2,047.4449	2,056.9718	0.7436	0.0125	2,079.2953

	ROG	NOx	CO	SO2	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	70.41	0.17	1.26	64.71	9.73	2.84

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/2/2019	12/27/2019	5	20	
2	Site Preparation	Site Preparation	12/28/2019	2/7/2020	5	30	
3	Grading	Grading	2/8/2020	3/20/2020	5	30	
4	Paving	Paving	3/21/2020	4/17/2020	5	20	
5	Trenching	Trenching	3/21/2020	7/24/2020	5	90	
6	Building Construction	Building Construction	11/30/2020	1/21/2022	5	300	
7	Architectural Coating	Architectural Coating	6/25/2021	2/18/2022	5	171	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 6.9

Residential Indoor: 1,393,702; Residential Outdoor: 464,567; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42

Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Loaders	1	8.00	203	0.36

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
Demolition	6	15.00	0.00	20.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	87.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5900e-003	0.0000	2.5900e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
Total	0.0351	0.3578	0.2206	3.9000e-004	2.5900e-003	0.0180	0.0205	3.9000e-004	0.0167	0.0171	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	2.9200e-003	4.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7866	0.7866	3.0000e-005	0.0000	0.7874
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.0000e-004	4.0400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0390	1.0390	3.0000e-005	0.0000	1.0397
Total	6.6000e-004	3.3200e-003	4.5100e-003	2.0000e-005	1.2700e-003	2.0000e-005	1.2900e-003	3.4000e-004	2.0000e-005	3.6000e-004	0.0000	1.8255	1.8255	6.0000e-005	0.0000	1.8271

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1700e-003	0.0000	1.1700e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
Total	0.0351	0.3578	0.2206	3.9000e-004	1.1700e-003	0.0180	0.0191	1.8000e-004	0.0167	0.0169	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	2.9200e-003	4.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7866	0.7866	3.0000e-005	0.0000	0.7874
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.0000e-004	4.0400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0390	1.0390	3.0000e-005	0.0000	1.0397
Total	6.6000e-004	3.3200e-003	4.5100e-003	2.0000e-005	1.2700e-003	2.0000e-005	1.2900e-003	3.4000e-004	2.0000e-005	3.6000e-004	0.0000	1.8255	1.8255	6.0000e-005	0.0000	1.8271

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					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	4.3400e-003	0.0456	0.0221	4.0000e-005		2.3900e-003	2.3900e-003		2.2000e-003	2.2000e-003	0.0000	3.4169	3.4169	1.0800e-003	0.0000	3.4439
Total	4.3400e-003	0.0456	0.0221	4.0000e-005	0.0181	2.3900e-003	0.0205	9.9300e-003	2.2000e-003	0.0121	0.0000	3.4169	3.4169	1.0800e-003	0.0000	3.4439

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Total	7.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.1300e-003	0.0000	8.1300e-003	4.4700e-003	0.0000	4.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0456	0.0221	4.0000e-005		2.3900e-003	2.3900e-003		2.2000e-003	2.2000e-003	0.0000	3.4169	3.4169	1.0800e-003	0.0000	3.4439
Total	4.3400e-003	0.0456	0.0221	4.0000e-005	8.1300e-003	2.3900e-003	0.0105	4.4700e-003	2.2000e-003	6.6700e-003	0.0000	3.4169	3.4169	1.0800e-003	0.0000	3.4439

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Total	7.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248

3.3 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					0.2529	0.0000	0.2529	0.1390	0.0000	0.1390	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.5938	0.3012	5.3000e-004		0.0308	0.0308		0.0283	0.0283	0.0000	46.8030	46.8030	0.0151	0.0000	47.1814
Total	0.0571	0.5938	0.3012	5.3000e-004	0.2529	0.0308	0.2837	0.1390	0.0283	0.1673	0.0000	46.8030	46.8030	0.0151	0.0000	47.1814

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	5.9000e-004	6.0700e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8700e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.6906	1.6906	4.0000e-005	0.0000	1.6917
Total	8.8000e-004	5.9000e-004	6.0700e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8700e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.6906	1.6906	4.0000e-005	0.0000	1.6917

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1138	0.0000	0.1138	0.0626	0.0000	0.0626	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.5938	0.3012	5.3000e-004		0.0308	0.0308		0.0283	0.0283	0.0000	46.8029	46.8029	0.0151	0.0000	47.1813
Total	0.0571	0.5938	0.3012	5.3000e-004	0.1138	0.0308	0.1446	0.0626	0.0283	0.0909	0.0000	46.8029	46.8029	0.0151	0.0000	47.1813

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	5.9000e-004	6.0700e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8700e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.6906	1.6906	4.0000e-005	0.0000	1.6917
Total	8.8000e-004	5.9000e-004	6.0700e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8700e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.6906	1.6906	4.0000e-005	0.0000	1.6917

3.4 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.1000e-004	7.2300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0126	2.0126	5.0000e-005	0.0000	2.0139
Total	1.0500e-003	7.1000e-004	7.2300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0126	2.0126	5.0000e-005	0.0000	2.0139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0586	0.0000	0.0586	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0668	0.7530	0.4794	9.3000e-004	0.0586	0.0326	0.0912	0.0243	0.0300	0.0543	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.1000e-004	7.2300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0126	2.0126	5.0000e-005	0.0000	2.0139
Total	1.0500e-003	7.1000e-004	7.2300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0126	2.0126	5.0000e-005	0.0000	2.0139

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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	9.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0226	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0063	1.0063	3.0000e-005	0.0000	1.0069
Total	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0063	1.0063	3.0000e-005	0.0000	1.0069

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	9.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0226	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0063	1.0063	3.0000e-005	0.0000	1.0069
Total	5.2000e-004	3.5000e-004	3.6100e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0063	1.0063	3.0000e-005	0.0000	1.0069

3.6 Trenching - 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	0.0389	0.4156	0.3677	7.5000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	65.5376	65.5376	0.0212	0.0000	66.0675
Total	0.0389	0.4156	0.3677	7.5000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	65.5376	65.5376	0.0212	0.0000	66.0675

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2600e-003	8.5000e-004	8.6700e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4151	2.4151	6.0000e-005	0.0000	2.4167
Total	1.2600e-003	8.5000e-004	8.6700e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4151	2.4151	6.0000e-005	0.0000	2.4167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0389	0.4156	0.3677	7.5000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	65.5375	65.5375	0.0212	0.0000	66.0674
Total	0.0389	0.4156	0.3677	7.5000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	65.5375	65.5375	0.0212	0.0000	66.0674

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2600e-003	8.5000e-004	8.6700e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4151	2.4151	6.0000e-005	0.0000	2.4167
Total	1.2600e-003	8.5000e-004	8.6700e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4151	2.4151	6.0000e-005	0.0000	2.4167

3.7 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	0.0254	0.2302	0.2022	3.2000e-004		0.0134	0.0134		0.0126	0.0126	0.0000	27.7932	27.7932	6.7800e-003	0.0000	27.9627
Total	0.0254	0.2302	0.2022	3.2000e-004		0.0134	0.0134		0.0126	0.0126	0.0000	27.7932	27.7932	6.7800e-003	0.0000	27.9627

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1195	0.0235	2.9000e-004	6.6000e-003	5.2000e-004	7.1200e-003	1.9100e-003	5.0000e-004	2.4100e-003	0.0000	27.7331	27.7331	1.7000e-003	0.0000	27.7757
Worker	9.8500e-003	6.6500e-003	0.0680	2.1000e-004	0.0208	1.5000e-004	0.0209	5.5200e-003	1.4000e-004	5.6500e-003	0.0000	18.9186	18.9186	4.8000e-004	0.0000	18.9305
Total	0.0136	0.1261	0.0915	5.0000e-004	0.0274	6.7000e-004	0.0280	7.4300e-003	6.4000e-004	8.0600e-003	0.0000	46.6517	46.6517	2.1800e-003	0.0000	46.7062

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0254	0.2302	0.2022	3.2000e-004		0.0134	0.0134		0.0126	0.0126	0.0000	27.7932	27.7932	6.7800e-003	0.0000	27.9627
Total	0.0254	0.2302	0.2022	3.2000e-004		0.0134	0.0134		0.0126	0.0126	0.0000	27.7932	27.7932	6.7800e-003	0.0000	27.9627

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1195	0.0235	2.9000e-004	6.6000e-003	5.2000e-004	7.1200e-003	1.9100e-003	5.0000e-004	2.4100e-003	0.0000	27.7331	27.7331	1.7000e-003	0.0000	27.7757
Worker	9.8500e-003	6.6500e-003	0.0680	2.1000e-004	0.0208	1.5000e-004	0.0209	5.5200e-003	1.4000e-004	5.6500e-003	0.0000	18.9186	18.9186	4.8000e-004	0.0000	18.9305
Total	0.0136	0.1261	0.0915	5.0000e-004	0.0274	6.7000e-004	0.0280	7.4300e-003	6.4000e-004	8.0600e-003	0.0000	46.6517	46.6517	2.1800e-003	0.0000	46.7062

3.7 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0338	1.1956	0.2235	3.1500e-003	0.0717	2.8000e-003	0.0745	0.0207	2.6800e-003	0.0234	0.0000	298.8088	298.8088	0.0177	0.0000	299.2507
Worker	0.0995	0.0647	0.6742	2.2000e-003	0.2257	1.5500e-003	0.2272	0.0600	1.4300e-003	0.0614	0.0000	198.5578	198.5578	4.6600e-003	0.0000	198.6742
Total	0.1332	1.2603	0.8976	5.3500e-003	0.2974	4.3500e-003	0.3017	0.0807	4.1100e-003	0.0848	0.0000	497.3665	497.3665	0.0223	0.0000	497.9249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0338	1.1956	0.2235	3.1500e-003	0.0717	2.8000e-003	0.0745	0.0207	2.6800e-003	0.0234	0.0000	298.8088	298.8088	0.0177	0.0000	299.2507
Worker	0.0995	0.0647	0.6742	2.2000e-003	0.2257	1.5500e-003	0.2272	0.0600	1.4300e-003	0.0614	0.0000	198.5578	198.5578	4.6600e-003	0.0000	198.6742
Total	0.1332	1.2603	0.8976	5.3500e-003	0.2974	4.3500e-003	0.3017	0.0807	4.1100e-003	0.0848	0.0000	497.3665	497.3665	0.0223	0.0000	497.9249

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
Total	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-003	0.0653	0.0118	1.8000e-004	4.1200e-003	1.4000e-004	4.2600e-003	1.1900e-003	1.3000e-004	1.3200e-003	0.0000	17.0096	17.0096	9.6000e-004	0.0000	17.0336
Worker	5.3400e-003	3.3400e-003	0.0356	1.2000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	10.9945	10.9945	2.4000e-004	0.0000	11.0005
Total	7.1400e-003	0.0686	0.0474	3.0000e-004	0.0171	2.3000e-004	0.0173	4.6400e-003	2.1000e-004	4.8500e-003	0.0000	28.0041	28.0041	1.2000e-003	0.0000	28.0341

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
Total	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-003	0.0653	0.0118	1.8000e-004	4.1200e-003	1.4000e-004	4.2600e-003	1.1900e-003	1.3000e-004	1.3200e-003	0.0000	17.0096	17.0096	9.6000e-004	0.0000	17.0336
Worker	5.3400e-003	3.3400e-003	0.0356	1.2000e-004	0.0130	9.0000e-005	0.0131	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	10.9945	10.9945	2.4000e-004	0.0000	11.0005
Total	7.1400e-003	0.0686	0.0474	3.0000e-004	0.0171	2.3000e-004	0.0173	4.6400e-003	2.1000e-004	4.8500e-003	0.0000	28.0041	28.0041	1.2000e-003	0.0000	28.0341

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.4749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1038	0.1236	2.0000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	17.3621	17.3621	1.1900e-003	0.0000	17.3919
Total	3.4898	0.1038	0.1236	2.0000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	17.3621	17.3621	1.1900e-003	0.0000	17.3919

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.7400e-003	0.0703	2.3000e-004	0.0235	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.6926	20.6926	4.9000e-004	0.0000	20.7047
Total	0.0104	6.7400e-003	0.0703	2.3000e-004	0.0235	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.6926	20.6926	4.9000e-004	0.0000	20.7047

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4749					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1038	0.1236	2.0000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	17.3621	17.3621	1.1900e-003	0.0000	17.3919
Total	3.4898	0.1038	0.1236	2.0000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	17.3621	17.3621	1.1900e-003	0.0000	17.3919

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.7400e-003	0.0703	2.3000e-004	0.0235	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.6926	20.6926	4.9000e-004	0.0000	20.7047
Total	0.0104	6.7400e-003	0.0703	2.3000e-004	0.0235	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.6926	20.6926	4.9000e-004	0.0000	20.7047

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8943					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
Total	0.8979	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4900e-003	1.5600e-003	0.0166	6.0000e-005	6.0500e-003	4.0000e-005	6.0900e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.1308	5.1308	1.1000e-004	0.0000	5.1336
Total	2.4900e-003	1.5600e-003	0.0166	6.0000e-005	6.0500e-003	4.0000e-005	6.0900e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.1308	5.1308	1.1000e-004	0.0000	5.1336

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8943					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
Total	0.8979	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4900e-003	1.5600e-003	0.0166	6.0000e-005	6.0500e-003	4.0000e-005	6.0900e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.1308	5.1308	1.1000e-004	0.0000	5.1336
Total	2.4900e-003	1.5600e-003	0.0166	6.0000e-005	6.0500e-003	4.0000e-005	6.0900e-003	1.6100e-003	4.0000e-005	1.6500e-003	0.0000	5.1308	5.1308	1.1000e-004	0.0000	5.1336

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3486	2.4098	3.7484	0.0169	1.2335	0.0112	1.2447	0.3321	0.0105	0.3426	0.0000	1,559.8472	1,559.8472	0.0662	0.0000	1,561.5022
Unmitigated	0.3486	2.4098	3.7484	0.0169	1.2335	0.0112	1.2447	0.3321	0.0105	0.3426	0.0000	1,559.8472	1,559.8472	0.0662	0.0000	1,561.5022

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.43	77.35	56.92	44,456	44,456
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,237.60	1,288.30	1120.60	3,222,926	3,222,926
Total	1,244.03	1,365.65	1,177.52	3,267,382	3,267,382

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	7.00	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Other Asphalt Surfaces	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Single Family Housing	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	238.3762	238.3762	0.0138	2.8600e-003	239.5750
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	238.3762	238.3762	0.0138	2.8600e-003	239.5750
NaturalGas Mitigated	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313
NaturalGas Unmitigated	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.77846e+006	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313
Total		0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.77846e+006	0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313
Total		0.0204	0.1741	0.0741	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.6331	201.6331	3.8600e-003	3.7000e-003	202.8313

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.05177e+006	238.3762	0.0138	2.8600e-003	239.5750
Total		238.3762	0.0138	2.8600e-003	239.5750

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.05177e+006	238.3762	0.0138	2.8600e-003	239.5750
Total		238.3762	0.0138	2.8600e-003	239.5750

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1780	0.0385	0.9772	2.3000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458
Unmitigated	3.1780	0.0385	0.9772	2.3000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458

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	0.4369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2100e-003	0.0274	0.0117	1.7000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.7423	31.7423	6.1000e-004	5.8000e-004	31.9309
Landscaping	0.0291	0.0111	0.9656	5.0000e-005		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	1.5769	1.5769	1.5200e-003	0.0000	1.6149
Total	3.1780	0.0385	0.9772	2.2000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458

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	0.4369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2100e-003	0.0274	0.0117	1.7000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.7423	31.7423	6.1000e-004	5.8000e-004	31.9309
Landscaping	0.0291	0.0111	0.9656	5.0000e-005		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	1.5769	1.5769	1.5200e-003	0.0000	1.6149
Total	3.1780	0.0385	0.9772	2.2000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	33.3192	33.3192	2.1300e-003	5.8000e-004	33.5458

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.4190	0.2216	5.3800e-003	23.5643
Unmitigated	20.5237	0.2770	6.7300e-003	29.4553

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.05104	3.2135	1.9000e-004	4.0000e-005	3.2296
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	8.47002 / 5.3398	17.3102	0.2768	6.6900e-003	26.2257
Total		20.5237	0.2770	6.7300e-003	29.4553

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.24083	2.5708	1.5000e-004	3.0000e-005	2.5837
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.77602 / 4.27184	13.8482	0.2215	5.3500e-003	20.9806
Total		16.4190	0.2216	5.3800e-003	23.5643

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.3772	0.4360	0.0000	18.2767
Unmitigated	29.5088	1.7439	0.0000	73.1068

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.29	0.0589	3.4800e-003	0.0000	0.1458
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	145.08	29.4499	1.7404	0.0000	72.9610
Total		29.5088	1.7439	0.0000	73.1068

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0725	0.0147	8.7000e-004	0.0000	0.0365
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	36.27	7.3625	0.4351	0.0000	18.2402
Total		7.3772	0.4360	0.0000	18.2767

Farmstead Project
Yolo/Solano AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	130.00	Dwelling Unit	11.10	688,248.00	372
City Park	3.40	Acre	3.40	148,104.00	0
Other Asphalt Surfaces	6.90	Acre	6.90	300,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	55
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Farmstead Project. YSAQMD. CO2 adjusted to meet 33% RPS.

Land Use - 130 single family homes developed on a 21.4 acre site including 3.4 acres in park/trails and 6.9 acres in roadway.

Construction Phase - Construction would last December 2019 through February 2022.

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - 2 excavators and 1 rubber tired dozer assumed per data request.

Grading - Assumed soil balanced onsite.

Demolition - 4,496 sf in structures removed

Trips and VMT - Default

Road Dust - 100% of roadways traversed in operations assumed to be paved.

Construction Off-road Equipment Mitigation - Water exposed area twice daily.

On-road Fugitive Dust - 100% of roadways assumed to be paved.

Waste Mitigation - A 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Woodstoves - Fireplaces assumed to be gas fueled rather than wood fueled. Default quantities also assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	171.00
tblConstructionPhase	NumDays	370.00	300.00
tblConstructionPhase	NumDays	35.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	9/24/2021	2/18/2022
tblConstructionPhase	PhaseEndDate	7/30/2021	1/21/2022
tblConstructionPhase	PhaseEndDate	2/28/2020	3/20/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	4/17/2020
tblConstructionPhase	PhaseEndDate	1/10/2020	2/7/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/29/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	1/11/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	7/31/2021	3/21/2020
tblFireplaces	FireplaceWoodMass	520.00	0.00
tblFireplaces	NumberGas	0.00	40.30

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Farmstead Project - Yolo/Solano AQMD Air District, Summer

tblFireplaces	NumberWood	40.30	0.00
tblLandUse	LandUseSquareFeet	234,000.00	688,248.00
tblLandUse	LotAcreage	42.21	11.10
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblRoadDust	RoadPercentPave	94	100
tblWoodstoves	WoodstoveWoodMass	3,120.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/2/2019	12/27/2019	5	20	
2	Site Preparation	Site Preparation	12/28/2019	2/7/2020	5	30	
3	Grading	Grading	2/8/2020	3/20/2020	5	30	
4	Paving	Paving	3/21/2020	4/17/2020	5	20	
5	Trenching	Trenching	3/21/2020	7/24/2020	5	90	
6	Building Construction	Building Construction	11/30/2020	1/21/2022	5	300	
7	Architectural Coating	Architectural Coating	6/25/2021	2/18/2022	5	171	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 6.9

Residential Indoor: 1,393,702; Residential Outdoor: 464,567; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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Farmstead Project - Yolo/Solano AQMD Air District, Summer

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Loaders	1	8.00	203	0.36

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
Demolition	6	15.00	0.00	20.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	87.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2592	0.0000	0.2592	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.2592	1.7949	2.0541	0.0393	1.6697	1.7089		3,816.8994	3,816.8994	1.0618		3,843.4451

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6400e-003	0.2831	0.0446	8.4000e-004	0.0175	1.2000e-003	0.0187	4.7900e-003	1.1500e-003	5.9300e-003		87.5126	87.5126	3.6300e-003		87.6032
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0358	0.4615	1.2600e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		125.7244	125.7244	3.5300e-003		125.8127
Total	0.0735	0.3189	0.5061	2.1000e-003	0.1316	2.0000e-003	0.1336	0.0351	1.8900e-003	0.0369		213.2370	213.2370	7.1600e-003		213.4159

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1166	0.0000	0.1166	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.1166	1.7949	1.9115	0.0177	1.6697	1.6873	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6400e-003	0.2831	0.0446	8.4000e-004	0.0175	1.2000e-003	0.0187	4.7900e-003	1.1500e-003	5.9300e-003		87.5126	87.5126	3.6300e-003		87.6032
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0358	0.4615	1.2600e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		125.7244	125.7244	3.5300e-003		125.8127
Total	0.0735	0.3189	0.5061	2.1000e-003	0.1316	2.0000e-003	0.1336	0.0351	1.8900e-003	0.0369		213.2370	213.2370	7.1600e-003		213.4159

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0430	0.5538	1.5100e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		150.8693	150.8693	4.2400e-003		150.9752
Total	0.0779	0.0430	0.5538	1.5100e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		150.8693	150.8693	4.2400e-003		150.9752

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	8.1298	2.3904	10.5202	4.4688	2.1991	6.6679	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0430	0.5538	1.5100e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		150.8693	150.8693	4.2400e-003		150.9752
Total	0.0779	0.0430	0.5538	1.5100e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		150.8693	150.8693	4.2400e-003		150.9752

3.3 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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0381	0.4974	1.4700e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		146.1319	146.1319	3.7200e-003		146.2249
Total	0.0714	0.0381	0.4974	1.4700e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		146.1319	146.1319	3.7200e-003		146.2249

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0714	0.0381	0.4974	1.4700e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		146.1319	146.1319	3.7200e-003		146.2249
Total	0.0714	0.0381	0.4974	1.4700e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		146.1319	146.1319	3.7200e-003		146.2249

3.4 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0793	0.0423	0.5527	1.6300e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		162.3688	162.3688	4.1300e-003		162.4721
Total	0.0793	0.0423	0.5527	1.6300e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		162.3688	162.3688	4.1300e-003		162.4721

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	3.9030	2.1739	6.0769	1.6184	2.0000	3.6184	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0793	0.0423	0.5527	1.6300e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		162.3688	162.3688	4.1300e-003		162.4721
Total	0.0793	0.0423	0.5527	1.6300e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		162.3688	162.3688	4.1300e-003		162.4721

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.9039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2605	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0317	0.4145	1.2200e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		121.7766	121.7766	3.1000e-003		121.8541
Total	0.0595	0.0317	0.4145	1.2200e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		121.7766	121.7766	3.1000e-003		121.8541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.9039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2605	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0317	0.4145	1.2200e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		121.7766	121.7766	3.1000e-003		121.8541
Total	0.0595	0.0317	0.4145	1.2200e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		121.7766	121.7766	3.1000e-003		121.8541

3.6 Trenching - 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	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497		1,605.3968	1,605.3968	0.5192		1,618.3772
Total	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497		1,605.3968	1,605.3968	0.5192		1,618.3772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0169	0.2211	6.5000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		64.9475	64.9475	1.6500e-003		64.9888
Total	0.0317	0.0169	0.2211	6.5000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		64.9475	64.9475	1.6500e-003		64.9888

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497	0.0000	1,605.3968	1,605.3968	0.5192		1,618.3772
Total	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497	0.0000	1,605.3968	1,605.3968	0.5192		1,618.3772

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0169	0.2211	6.5000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		64.9475	64.9475	1.6500e-003		64.9888
Total	0.0317	0.0169	0.2211	6.5000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		64.9475	64.9475	1.6500e-003		64.9888

3.7 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3036	9.8013	1.8099	0.0247	0.5648	0.0429	0.6077	0.1626	0.0410	0.2036		2,583.7905	2,583.7905	0.1483		2,587.4972
Worker	0.9316	0.4969	6.4942	0.0192	1.7876	0.0122	1.7999	0.4742	0.0113	0.4854		1,907.8328	1,907.8328	0.0486		1,909.0467
Total	1.2352	10.2981	8.3041	0.0438	2.3525	0.0551	2.4076	0.6368	0.0523	0.6891		4,491.6233	4,491.6233	0.1968		4,496.5439

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3036	9.8013	1.8099	0.0247	0.5648	0.0429	0.6077	0.1626	0.0410	0.2036		2,583.7905	2,583.7905	0.1483		2,587.4972
Worker	0.9316	0.4969	6.4942	0.0192	1.7876	0.0122	1.7999	0.4742	0.0113	0.4854		1,907.8328	1,907.8328	0.0486		1,909.0467
Total	1.2352	10.2981	8.3041	0.0438	2.3525	0.0551	2.4076	0.6368	0.0523	0.6891		4,491.6233	4,491.6233	0.1968		4,496.5439

3.7 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2528	9.0410	1.5714	0.0245	0.5648	0.0210	0.5858	0.1626	0.0201	0.1827		2,560.0192	2,560.0192	0.1413		2,563.5527
Worker	0.8645	0.4443	5.9385	0.0185	1.7876	0.0119	1.7995	0.4742	0.0109	0.4851		1,841.2084	1,841.2084	0.0435		1,842.2954
Total	1.1173	9.4853	7.5099	0.0429	2.3524	0.0329	2.3853	0.6368	0.0310	0.6678		4,401.2277	4,401.2277	0.1848		4,405.8482

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2528	9.0410	1.5714	0.0245	0.5648	0.0210	0.5858	0.1626	0.0201	0.1827		2,560.0192	2,560.0192	0.1413		2,563.5527
Worker	0.8645	0.4443	5.9385	0.0185	1.7876	0.0119	1.7995	0.4742	0.0109	0.4851		1,841.2084	1,841.2084	0.0435		1,842.2954
Total	1.1173	9.4853	7.5099	0.0429	2.3524	0.0329	2.3853	0.6368	0.0310	0.6678		4,401.2277	4,401.2277	0.1848		4,405.8482

3.7 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2341	8.5968	1.4440	0.0242	0.5648	0.0179	0.5827	0.1626	0.0171	0.1797		2,535.9046	2,535.9046	0.1336		2,539.2449
Worker	0.8062	0.3989	5.4642	0.0178	1.7876	0.0116	1.7992	0.4742	0.0107	0.4848		1,773.8737	1,773.8737	0.0391		1,774.8503
Total	1.0403	8.9957	6.9082	0.0420	2.3524	0.0295	2.3819	0.6368	0.0278	0.6646		4,309.7784	4,309.7784	0.1727		4,314.0952

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2341	8.5968	1.4440	0.0242	0.5648	0.0179	0.5827	0.1626	0.0171	0.1797		2,535.9046	2,535.9046	0.1336		2,539.2449
Worker	0.8062	0.3989	5.4642	0.0178	1.7876	0.0116	1.7992	0.4742	0.0107	0.4848		1,773.8737	1,773.8737	0.0391		1,774.8503
Total	1.0403	8.9957	6.9082	0.0420	2.3524	0.0295	2.3819	0.6368	0.0278	0.6646		4,309.7784	4,309.7784	0.1727		4,314.0952

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	51.3210	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1729	0.0889	1.1877	3.6900e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		368.2417	368.2417	8.7000e-003		368.4591
Total	0.1729	0.0889	1.1877	3.6900e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		368.2417	368.2417	8.7000e-003		368.4591

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	51.3210	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1729	0.0889	1.1877	3.6900e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		368.2417	368.2417	8.7000e-003		368.4591
Total	0.1729	0.0889	1.1877	3.6900e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		368.2417	368.2417	8.7000e-003		368.4591

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	51.3066	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1612	0.0798	1.0928	3.5600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		354.7748	354.7748	7.8100e-003		354.9701
Total	0.1612	0.0798	1.0928	3.5600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		354.7748	354.7748	7.8100e-003		354.9701

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	51.3066	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1612	0.0798	1.0928	3.5600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		354.7748	354.7748	7.8100e-003		354.9701
Total	0.1612	0.0798	1.0928	3.5600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		354.7748	354.7748	7.8100e-003		354.9701

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5159	14.0377	24.2236	0.1065	7.5541	0.0665	7.6206	2.0280	0.0622	2.0901		10,845.8440	10,845.8440	0.4349		10,856.7160
Unmitigated	2.5159	14.0377	24.2236	0.1065	7.5541	0.0665	7.6206	2.0280	0.0622	2.0901		10,845.8440	10,845.8440	0.4349		10,856.7160

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.43	77.35	56.92	44,456	44,456
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,237.60	1,288.30	1120.60	3,222,926	3,222,926
Total	1,244.03	1,365.65	1,177.52	3,267,382	3,267,382

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	7.00	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Other Asphalt Surfaces	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Single Family Housing	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
NaturalGas Unmitigated	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10351.9	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
Total		0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.3519	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
Total		0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

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	17.6382	0.7922	11.0131	4.8300e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616
Unmitigated	17.6382	0.7922	11.0131	4.8300e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0782	0.6685	0.2845	4.2700e-003		0.0541	0.0541		0.0541	0.0541	0.0000	853.4118	853.4118	0.0164	0.0157	858.4832
Landscaping	0.3233	0.1237	10.7286	5.7000e-004		0.0594	0.0594		0.0594	0.0594		19.3141	19.3141	0.0186		19.7785
Total	17.6382	0.7922	11.0131	4.8400e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0782	0.6685	0.2845	4.2700e-003		0.0541	0.0541		0.0541	0.0541	0.0000	853.4118	853.4118	0.0164	0.0157	858.4832
Landscaping	0.3233	0.1237	10.7286	5.7000e-004		0.0594	0.0594		0.0594	0.0594		19.3141	19.3141	0.0186		19.7785
Total	17.6382	0.7922	11.0131	4.8400e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616

Farmstead Project
Yolo/Solano AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	130.00	Dwelling Unit	11.10	688,248.00	372
City Park	3.40	Acre	3.40	148,104.00	0
Other Asphalt Surfaces	6.90	Acre	6.90	300,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	55
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Farmstead Project. YSAQMD. CO2 adjusted to meet 33% RPS.

Land Use - 130 single family homes developed on a 21.4 acre site including 3.4 acres in park/trails and 6.9 acres in roadway.

Construction Phase - Construction would last December 2019 through February 2022.

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - 2 excavators and 1 rubber tired dozer assumed per data request.

Grading - Assumed soil balanced onsite.

Demolition - 4,496 sf in structures removed

Trips and VMT - Default

Road Dust - 100% of roadways traversed in operations assumed to be paved.

Construction Off-road Equipment Mitigation - Water exposed area twice daily.

On-road Fugitive Dust - 100% of roadways assumed to be paved.

Waste Mitigation - A 75% reduction in the volume of waste was assumed in accordance with AB 341 (not mitigation).

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance.

Woodstoves - Fireplaces assumed to be gas fueled rather than wood fueled. Default quantities also assumed.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	171.00
tblConstructionPhase	NumDays	370.00	300.00
tblConstructionPhase	NumDays	35.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	9/24/2021	2/18/2022
tblConstructionPhase	PhaseEndDate	7/30/2021	1/21/2022
tblConstructionPhase	PhaseEndDate	2/28/2020	3/20/2020
tblConstructionPhase	PhaseEndDate	8/27/2021	4/17/2020
tblConstructionPhase	PhaseEndDate	1/10/2020	2/7/2020
tblConstructionPhase	PhaseStartDate	8/28/2021	6/25/2021
tblConstructionPhase	PhaseStartDate	2/29/2020	11/30/2020
tblConstructionPhase	PhaseStartDate	1/11/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	7/31/2021	3/21/2020
tblFireplaces	FireplaceWoodMass	520.00	0.00
tblFireplaces	NumberGas	0.00	40.30

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Farmstead Project - Yolo/Solano AQMD Air District, Winter

tblFireplaces	NumberWood	40.30	0.00
tblLandUse	LandUseSquareFeet	234,000.00	688,248.00
tblLandUse	LotAcreage	42.21	11.10
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	HaulingPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	VendorPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblOnRoadDust	WorkerPercentPave	94.00	100.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblRoadDust	RoadPercentPave	94	100
tblWoodstoves	WoodstoveWoodMass	3,120.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/2/2019	12/27/2019	5	20	
2	Site Preparation	Site Preparation	12/28/2019	2/7/2020	5	30	
3	Grading	Grading	2/8/2020	3/20/2020	5	30	
4	Paving	Paving	3/21/2020	4/17/2020	5	20	
5	Trenching	Trenching	3/21/2020	7/24/2020	5	90	
6	Building Construction	Building Construction	11/30/2020	1/21/2022	5	300	
7	Architectural Coating	Architectural Coating	6/25/2021	2/18/2022	5	171	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 6.9

Residential Indoor: 1,393,702; Residential Outdoor: 464,567; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Loaders	1	8.00	203	0.36

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
Demolition	6	15.00	0.00	20.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	235.00	87.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2592	0.0000	0.2592	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.2592	1.7949	2.0541	0.0393	1.6697	1.7089		3,816.8994	3,816.8994	1.0618		3,843.4451

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9600e-003	0.2927	0.0506	8.2000e-004	0.0175	1.2300e-003	0.0187	4.7900e-003	1.1800e-003	5.9700e-003		85.5870	85.5870	4.0800e-003		85.6890
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0615	0.0452	0.4155	1.1200e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		111.6634	111.6634	3.2000e-003		111.7434
Total	0.0704	0.3379	0.4661	1.9400e-003	0.1316	2.0300e-003	0.1336	0.0351	1.9200e-003	0.0370		197.2504	197.2504	7.2800e-003		197.4325

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1166	0.0000	0.1166	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.1166	1.7949	1.9115	0.0177	1.6697	1.6873	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9600e-003	0.2927	0.0506	8.2000e-004	0.0175	1.2300e-003	0.0187	4.7900e-003	1.1800e-003	5.9700e-003		85.5870	85.5870	4.0800e-003		85.6890
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0615	0.0452	0.4155	1.1200e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		111.6634	111.6634	3.2000e-003		111.7434
Total	0.0704	0.3379	0.4661	1.9400e-003	0.1316	2.0300e-003	0.1336	0.0351	1.9200e-003	0.0370		197.2504	197.2504	7.2800e-003		197.4325

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0737	0.0542	0.4986	1.3500e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.9961	133.9961	3.8400e-003		134.0921
Total	0.0737	0.0542	0.4986	1.3500e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.9961	133.9961	3.8400e-003		134.0921

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	8.1298	2.3904	10.5202	4.4688	2.1991	6.6679	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0737	0.0542	0.4986	1.3500e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.9961	133.9961	3.8400e-003		134.0921
Total	0.0737	0.0542	0.4986	1.3500e-003	0.1369	9.6000e-004	0.1379	0.0363	8.8000e-004	0.0372		133.9961	133.9961	3.8400e-003		134.0921

3.3 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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0479	0.4451	1.3000e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		129.7796	129.7796	3.3500e-003		129.8633
Total	0.0675	0.0479	0.4451	1.3000e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		129.7796	129.7796	3.3500e-003		129.8633

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0479	0.4451	1.3000e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		129.7796	129.7796	3.3500e-003		129.8633
Total	0.0675	0.0479	0.4451	1.3000e-003	0.1369	9.4000e-004	0.1379	0.0363	8.6000e-004	0.0372		129.7796	129.7796	3.3500e-003		129.8633

3.4 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0532	0.4946	1.4500e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		144.1996	144.1996	3.7200e-003		144.2926
Total	0.0750	0.0532	0.4946	1.4500e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		144.1996	144.1996	3.7200e-003		144.2926

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	3.9030	2.1739	6.0769	1.6184	2.0000	3.6184	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0532	0.4946	1.4500e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		144.1996	144.1996	3.7200e-003		144.2926
Total	0.0750	0.0532	0.4946	1.4500e-003	0.1521	1.0400e-003	0.1532	0.0404	9.6000e-004	0.0413		144.1996	144.1996	3.7200e-003		144.2926

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.9039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2605	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0399	0.3709	1.0900e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		108.1497	108.1497	2.7900e-003		108.2195
Total	0.0563	0.0399	0.3709	1.0900e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		108.1497	108.1497	2.7900e-003		108.2195

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.9039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2605	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0399	0.3709	1.0900e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		108.1497	108.1497	2.7900e-003		108.2195
Total	0.0563	0.0399	0.3709	1.0900e-003	0.1141	7.8000e-004	0.1149	0.0303	7.2000e-004	0.0310		108.1497	108.1497	2.7900e-003		108.2195

3.6 Trenching - 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	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497		1,605.3968	1,605.3968	0.5192		1,618.3772
Total	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497		1,605.3968	1,605.3968	0.5192		1,618.3772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0213	0.1978	5.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		57.6798	57.6798	1.4900e-003		57.7170
Total	0.0300	0.0213	0.1978	5.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		57.6798	57.6798	1.4900e-003		57.7170

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497	0.0000	1,605.3968	1,605.3968	0.5192		1,618.3772
Total	0.8641	9.2348	8.1710	0.0166		0.3801	0.3801		0.3497	0.3497	0.0000	1,605.3968	1,605.3968	0.5192		1,618.3772

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0213	0.1978	5.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		57.6798	57.6798	1.4900e-003		57.7170
Total	0.0300	0.0213	0.1978	5.8000e-004	0.0609	4.2000e-004	0.0613	0.0161	3.8000e-004	0.0165		57.6798	57.6798	1.4900e-003		57.7170

3.7 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3211	9.9261	2.1835	0.0239	0.5648	0.0442	0.6091	0.1626	0.0423	0.2049		2,497.5057	2,497.5057	0.1679		2,501.7036
Worker	0.8817	0.6255	5.8113	0.0170	1.7876	0.0122	1.7999	0.4742	0.0113	0.4854		1,694.3450	1,694.3450	0.0437		1,695.4380
Total	1.2027	10.5516	7.9948	0.0409	2.3525	0.0564	2.4089	0.6368	0.0536	0.6904		4,191.8507	4,191.8507	0.2116		4,197.1416

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3211	9.9261	2.1835	0.0239	0.5648	0.0442	0.6091	0.1626	0.0423	0.2049		2,497.5057	2,497.5057	0.1679		2,501.7036
Worker	0.8817	0.6255	5.8113	0.0170	1.7876	0.0122	1.7999	0.4742	0.0113	0.4854		1,694.3450	1,694.3450	0.0437		1,695.4380
Total	1.2027	10.5516	7.9948	0.0409	2.3525	0.0564	2.4089	0.6368	0.0536	0.6904		4,191.8507	4,191.8507	0.2116		4,197.1416

3.7 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2689	9.1256	1.9124	0.0236	0.5648	0.0222	0.5870	0.1626	0.0212	0.1838		2,474.2491	2,474.2491	0.1603		2,478.2571
Worker	0.8186	0.5591	5.2907	0.0164	1.7876	0.0119	1.7995	0.4742	0.0109	0.4851		1,635.2039	1,635.2039	0.0391		1,636.1801
Total	1.0875	9.6847	7.2030	0.0401	2.3524	0.0340	2.3865	0.6368	0.0321	0.6689		4,109.4530	4,109.4530	0.1994		4,114.4373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2689	9.1256	1.9124	0.0236	0.5648	0.0222	0.5870	0.1626	0.0212	0.1838		2,474.2491	2,474.2491	0.1603		2,478.2571
Worker	0.8186	0.5591	5.2907	0.0164	1.7876	0.0119	1.7995	0.4742	0.0109	0.4851		1,635.2039	1,635.2039	0.0391		1,636.1801
Total	1.0875	9.6847	7.2030	0.0401	2.3524	0.0340	2.3865	0.6368	0.0321	0.6689		4,109.4530	4,109.4530	0.1994		4,114.4373

3.7 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2491	8.6627	1.7586	0.0234	0.5648	0.0190	0.5838	0.1626	0.0182	0.1808		2,450.3982	2,450.3982	0.1518		2,454.1922
Worker	0.7647	0.5018	4.8447	0.0158	1.7876	0.0116	1.7992	0.4742	0.0107	0.4848		1,575.4815	1,575.4815	0.0350		1,576.3562
Total	1.0138	9.1645	6.6033	0.0392	2.3524	0.0306	2.3830	0.6368	0.0288	0.6656		4,025.8797	4,025.8797	0.1868		4,030.5483

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2491	8.6627	1.7586	0.0234	0.5648	0.0190	0.5838	0.1626	0.0182	0.1808		2,450.3982	2,450.3982	0.1518			2,454.1922
Worker	0.7647	0.5018	4.8447	0.0158	1.7876	0.0116	1.7992	0.4742	0.0107	0.4848		1,575.4815	1,575.4815	0.0350			1,576.3562
Total	1.0138	9.1645	6.6033	0.0392	2.3524	0.0306	2.3830	0.6368	0.0288	0.6656		4,025.8797	4,025.8797	0.1868			4,030.5483

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	51.3210	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1637	0.1118	1.0581	3.2800e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		327.0408	327.0408	7.8100e-003		327.2360
Total	0.1637	0.1118	1.0581	3.2800e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		327.0408	327.0408	7.8100e-003		327.2360

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	51.3210	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1637	0.1118	1.0581	3.2800e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		327.0408	327.0408	7.8100e-003		327.2360
Total	0.1637	0.1118	1.0581	3.2800e-003	0.3575	2.3700e-003	0.3599	0.0948	2.1900e-003	0.0970		327.0408	327.0408	7.8100e-003		327.2360

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	51.3066	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1529	0.1004	0.9689	3.1600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		315.0963	315.0963	7.0000e-003		315.2712
Total	0.1529	0.1004	0.9689	3.1600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		315.0963	315.0963	7.0000e-003		315.2712

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	51.1021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	51.3066	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1529	0.1004	0.9689	3.1600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		315.0963	315.0963	7.0000e-003		315.2712
Total	0.1529	0.1004	0.9689	3.1600e-003	0.3575	2.3100e-003	0.3598	0.0948	2.1300e-003	0.0970		315.0963	315.0963	7.0000e-003		315.2712

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0011	14.5794	23.4978	0.0980	7.5541	0.0669	7.6210	2.0280	0.0626	2.0905		9,990.1846	9,990.1846	0.4513		10,001.4674
Unmitigated	2.0011	14.5794	23.4978	0.0980	7.5541	0.0669	7.6210	2.0280	0.0626	2.0905		9,990.1846	9,990.1846	0.4513		10,001.4674

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.43	77.35	56.92	44,456	44,456
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,237.60	1,288.30	1120.60	3,222,926	3,222,926
Total	1,244.03	1,365.65	1,177.52	3,267,382	3,267,382

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	7.00	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Other Asphalt Surfaces	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873
Single Family Housing	0.526397	0.037140	0.194621	0.111857	0.019784	0.005283	0.037518	0.055864	0.001328	0.001945	0.006704	0.000686	0.000873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
NaturalGas Unmitigated	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10351.9	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
Total		0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.3519	0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137
Total		0.1116	0.9540	0.4060	6.0900e-003		0.0771	0.0771		0.0771	0.0771		1,217.8765	1,217.8765	0.0233	0.0223	1,225.1137

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	17.6382	0.7922	11.0131	4.8300e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616
Unmitigated	17.6382	0.7922	11.0131	4.8300e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0782	0.6685	0.2845	4.2700e-003		0.0541	0.0541		0.0541	0.0541	0.0000	853.4118	853.4118	0.0164	0.0157	858.4832
Landscaping	0.3233	0.1237	10.7286	5.7000e-004		0.0594	0.0594		0.0594	0.0594		19.3141	19.3141	0.0186		19.7785
Total	17.6382	0.7922	11.0131	4.8400e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.3941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0782	0.6685	0.2845	4.2700e-003		0.0541	0.0541		0.0541	0.0541	0.0000	853.4118	853.4118	0.0164	0.0157	858.4832
Landscaping	0.3233	0.1237	10.7286	5.7000e-004		0.0594	0.0594		0.0594	0.0594		19.3141	19.3141	0.0186		19.7785
Total	17.6382	0.7922	11.0131	4.8400e-003		0.1134	0.1134		0.1134	0.1134	0.0000	872.7258	872.7258	0.0349	0.0157	878.2616