

APPENDIX C:  
AIR QUALITY AND  
GREENHOUSE GAS EMISSIONS  
DATA





**CalEEMod Inputs (Construction Run)**

**Name:** The Forum San Antonio  
**Project Location:** 23500 Cristo Rey Dr, Cupertino, CA 95014  
**County/Air Basin:** Santa Clara County  
**Climate Zone:** 4  
**Land Use Setting:** Urban  
**Operational Year:** 2020  
**Utility Company:** Pacific Gas and Electric

	<u>SQFT</u>	<u>Acreage</u>	Residents	500
Total Site Area:	2,243,340	51.50	New Resident	108
Total Area Disturbed:	460,764	6.85		

Components	Added SQFT	Acreage	Units	Renovation	Stories
Skilled Nursing Facility	21,101	1.05	10	24,685	1
Assisted Living Renovation	0	0.24	0	10400	1
Memory Care Facility	38,170	0.88	26	0	2
Independent Living Villas	57,166	1.31	25		1
Community Space/Café	920	0.09	NA	2940	2
MultiPurpose Room	17,000	0.39	NA	0	2
Fitness Space	1,412	0.07	NA	1730	
Admin/ER Space	0	0.06	NA	2,584	
Surface Parking	8,208	0.19	NA	NA	NA
Enclosed Parking	27,809	0.64	NA	NA	NA
Non-Parking Asphalt	35,500	0.81	NA	NA	NA
Hardscape	28,420	0.65	NA	NA	NA
Landscaping	185,303	0.47	NA	NA	NA
		<b>6.85</b>		<b>42,339</b>	

**CalEEMod Land Use Inputs Phase 1**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
<b>Phase 1A</b>						
Congregate Care	Residential	Congregate Care (Assisted Living)	36.00	1000 sqft	2.23	97,296
Retirement Community	Residential	Retirement Community	25	DU	1.31	57,166
Community Space-- Café Addition	Recreational	Fast Food Restaurant w/o Drive Thru	0.92	1000 sqft	0.02	920
Fitness Facility	Recreational	Health Club	3.14	1000 sqft	0.07	3,142
Admin/ER Space	Office	Office	2.58	1000 sqft	0.06	2,584
Surface Parking	Parking	Parking Lot	8.21	1000 sqft	0.19	8,208
Enclosed Parking	Parking	Enclosed Parking w/Elevator	27.81	1000 sqft	0.64	27,809
Non-Parking Asphalt	Parking	Non-Parking Asphalt	35.50	1000 sqft	0.81	35,500
Hardscape	Parking	Non-Asphalt Hardscape	28.42	1000 sqft	0.65	28,420
Landscaping			185.30	1000 sqft	0.47	185,303
					<b>6.46</b>	<b>446,348</b>

**CalEEMod Land Use Inputs Phase 2**

Multipurpose Room	Residential	Retirement Community	17	1000sqft	0.39	17,000
					<b>0.39</b>	<b>17,000</b>

**Demolition Haul**

Component	Amount to be Demolished (SQFT)*	Amount to be Demolished (Tons)	Haul Truck		Total Trip Ends	Duration (days)	Trips Ends/Day*
			Capacity (tons)*	Haul Distance (miles)*			
Asphalt		1,650	18	20	183		
Buildings	31,500	787	6	20	262		
		<b>2,437</b>			<b>445</b>	20	23

\*Provided by the Applicant

**Soil Haul**

Total Export Volume (CY)*	Haul Truck Capacity (CY)*	Haul Distance (miles)**	Total Trip Ends	Total Days	Trip Ends/Day
15,300	18	20	1,700	88	19

\*Provided by the Applicant.

\*\*CalEEMod Default

**Architectural Coating**

**BAAQMD Regulation 8 Rule 3**

Interior Paint VOC content: 100

Exterior Paint VOC content: 150

**Non-Residential Architectural Coating**

Percentage of Buildings' Interior Painted: 100%

Percentage of Buildings' Exterior Painted: 100%

Structures	Land Use Square Feet	CalEEMod Paintable Surface Area		Total Paintable Surface Area <sup>2</sup>	Paintable Interior Area <sup>1</sup>	Paintable Exterior Area <sup>1</sup>
		Multiplier				
Congregate Care	97,296	2.7		262,699	197,024	65,675
Retirement Community	57,166	2.7		154,348	115,761	38,587
			<b>Residential Totals</b>	<b>417,047</b>	<b>312,786</b>	<b>104,262</b>
Admin Space	2,584	2		5,168	3,876	1,292
Community Space-- Café Addition	920	2		1,840	1,380	460
Fitness Facility	3,142	2		6,284	4,713	1,571
			<b>Non-Residential Totals</b>	<b>8,124</b>	<b>9,969</b>	<b>3,323</b>
Parking	36,017	0.06		2,161		2,161

**Phase II**

Phase II Multipurpose	17,000	2.7		<b>45,900</b>	<b>34,425</b>	<b>11,475</b>
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**Notes:**

<sup>1</sup> \*CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

<sup>2</sup> \*\* Applied CalEEMod Methodology in calculating total

**Construction - Unmitigated Run**

**BAAQMD BMPs**

Replace Ground Cover	PM10:	<u>5</u>	% Reduction
	PM25:	<u>5</u>	% Reduction
Water Exposed Area	Frequency:	<u>2</u>	per day
	PM10:	<u>55</u>	% Reduction
	PM25:	<u>55</u>	% Reduction
Unpaved Roads	Vehicle Speed:	<u>15</u>	mph
Clean Paved Road		<u>9</u>	% PM Reduction

## CalEEMod Construction Phase Inputs\*

5-Day Work Week/8 hours per day

Phase 1	Phase Type	Start Date	End Date	CalEEMod Total Days	Total Days
<b>Phase 1A</b>				deferred to CalEEMod Defau	
Demolition	Demolition	1/1/2018	1/26/2018	20	25
Demo Haul	Demolition	1/11/2018	1/26/2018	12	15
Site Preparation	Site Preparation	1/27/2018	2/9/2018	10	13
Grading	Grading	2/10/2018	5/30/2018	78	109
Grading Haul	Grading	2/10/2018	6/13/2018	88	123
Building Construction 1a	Building Construction	5/31/2018	4/17/2019	230	321
<b>Phase 1B</b>					
Building Construction 1b	Building Construction	4/18/2019	3/4/2020	230	321
Painting	Painting	2/8/2020	3/4/2020	18	25
Paving	Paving	2/8/2020	3/4/2020	18	25

## Phase 2

Demolition	Demolition	3/15/2020	3/28/2020	10	13
Site Preparation	Site Preparation	3/29/2020	3/30/2020	1	1
Grading	Grading	3/31/2020	4/9/2020	8	9
Building Construction	Building Construction	4/10/2020	8/27/2020	100	139
Architectural Coating	Painting	8/21/2020	8/27/2020	5	6
Paving	Paving	8/21/2020	8/27/2020	5	6

Year	Start Date	End Date	Days
2018	1/1/2018	12/31/2018	261
2019	1/1/2019	12/31/2019	261
2020	1/1/2020	8/27/2020	172
<b>Total</b>			<b>694</b>

Entire Project to be completed within 5 years

\*Based on construction schedule provided by the Applicant.

**CalEEMod Construction Off-Road Equipment Inputs\***  
**Phase 1A and 1B**

Equipment Type	The Forum San Antonio	Unit Amount	Hours /Day	HP	LF	Vendor Trips
<b>Demolition</b>						
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73	
Excavators	Excavators	1	8	162	0.38	
Rubber Tired Dozers	Rubber Tired Dozers	1	8	255	0.4	
Water Truck**						4
Worker Trips						10
<b>Site Preparation</b>						
Rubber Tired Dozers	Rubber Tired Dozers	1	8	247	0.4	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	8	97	0.37	
Water Truck**						12
Worker Trips						20
<b>Mass Grading</b>						
Excavators	Excavators	1	8	162	0.38	
Graders	Graders	2	8	174	0.41	
Rubber Tired Dozers	Rubber Tired Dozers	1	8	255	0.4	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8	97	0.37	
Water Truck**						8
Worker Trips						15
<b>Building Construction 1a</b>						
Cranes	Cranes	0	7	231	0.29	
Forklifts	Forklifts	2	2	89	0.2	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7	97	0.37	
Welders	Welders	2	8	46	0.45	
Vendor Trips						16
Worker Trips						67
<b>Building Construction 1b</b>						
Cranes	Cranes	0	7	231	0.29	
Forklifts	Forklifts	3	2	89	0.2	
Generator Set	Generator Set	0	8	84		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	0	7	97	0.37	
Welders	Welders	1	8	46	0.45	
Vendor Trips						17
Worker Trips						67
<b>Paving</b>						
Cement and Mortar Mixers	Cement and Mortar Mixers	2	6	9	0.56	
Pavers	Pavers	1	8	130	0.42	
Paving Equipment	Paving Equipment	2	6	132	0.36	
Rollers	Rollers	2	6	80	0.38	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8	97	0.37	
Vendor Trips						2
Worker Trips						20
<b>Painting</b>						
Air Compressors	Air Compressors	1	6	78	0.48	
Worker Trips						13
Vendor Trips						1

\*CalEEMod default approved by Applicant.

\*\*Assume 4 vendor trips for water trucks.

**CalEEMod Construction Off-Road Equipment Inputs\***

**PHASE 2 - Multipurpose Addition and Remodeling of Existing Area**

Equipment Type	The Forum San Antonio	Unit Amount	Hours /Day	HP	LF	Vendor Trips
<b>Demolition</b>						
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6	97	0.38	
Rubber Tired Dozers	Rubber Tired Dozers	1	1	247	0.4	
Water Truck**						16
Worker Trips						5
<b>Site Preparation</b>						
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8	97	0.37	
Water Truck**						4
Worker Trips						5
<b>Mass Grading</b>						
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73	
Rubber Tired Dozers	Rubber Tired Dozers	1	1	247	0.4	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	6	97	0.37	
Water Truck**						4
Worker Trips						10
<b>Building Construction</b>						
Cranes	Cranes	1	4	231	0.29	
Forklifts	Forklifts	2	6	89	0.2	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8	97	0.37	
Vendor Trips						2
Worker Trips						12
<b>Paving</b>						
Cement and Mortar Mixers	Cement and Mortar Mixers	4	6	9	0.56	
Pavers	Pavers	1	7	130	0.42	
Rollers	Rollers	1	7	80	0.38	
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7	97	0.37	
Worker Trips						18
<b>Painting</b>						
Air Compressors	Air Compressors	1	6	78	0.48	
Worker Trips						2

\*CalEEMod default approved by Applicant.

\*\*Assume 4 vendor trips for water trucks.

**CalEEMod Inputs--Operation**

**Name:** The Forum San Antonio  
**Project Location:** 23500 Cristo Rey Dr, Cupertino, CA 95014  
**County/Air Basin:** Santa Clara County  
**Climate Zone:** 4  
**Land Use Setting:** Urban  
**Operational Year:** 2020  
**Utility Company:** Pacific Gas and Electric

	<b>SQFT</b>	<b>Acreage</b>
Total Site Area:	2,243,340	51.50

	<b>Residents</b>	<b>Employees</b>
<b>Existing</b>	481	209
<b>New</b>	47	28
<i>Congregate Care</i>	28	
<i>Retirement Community</i>	19	
<b>Total</b>	528	237

**CalEEMod Land Use Inputs**

<b>Land Use</b>	<b>Land Use Type</b>	<b>Land Use Subtype</b>	<b>Unit Amount</b>	<b>Size Metric</b>	<b>Lot Acreage</b>	<b>Square Feet</b>
Congregate Care	Residential	Congregate Care (Assisted Living)	36	DU	2.23	59,271
Retirement Community	Residential	Retirement Community	25	DU	1.31	74,166
Community Space-- Café Addition	Recreational	Fast Food Restaurant w/o Drive Thru	0.92	1000 sqft	0.02	920
Fitness Facility	Recreational	Health Club	1.41	1000 sqft	0.03	1,412
Surface Parking	Parking	Parking Lot	8.21	1000 sqft	0.19	8,208
Enclosed Parking	Parking	Enclosed Parking w/Elevator	27.81	1000 sqft	0.64	27,809
Non-Parking Asphalt	Parking	Other Asphalt	35.50	1000 sqft	0.81	35,500
Hardscape	Parking	Non-Asphalt Hardscape	28.42	1000 sqft	0.65	28,420
					<b>5.89</b>	



**Trip Generations**

	Existing	Proposed Project	Net Change	
Independent Living Trip Generation *	1,174	1,266	92	ADT
Independent Living Trip Rate*	3.68	3.68	3.68	trips/DU
Assisted Living Trip Generation*	282	378	96	ADT
Assisted Living Trip Rate*	2.66	2.66	2.66	trips/DU

\*Based on Traffic Counts in PlaceWorks *Traffic Data Memo for The Forum Senior Community Update Project*

**Solid Waste**

Congregate Care	32.85	TPY
Café	10.6	TPY
Fitness Center	8.04	TPY
Independent Living	11.5	TPY
<b>Total Solid Waste:</b>	<b>62.99</b>	<b>TPY</b>

\*Based on CalEEMod Defaults

**Water Use**

Septic Tank	0%			
Aerobic	100%			
Facultative Lagoons	0%			
			<b>Calculated Outdoor Water Use**</b>	
			2,154,578.00	GPY
	<b>Congregate Care (GPY)</b>	<b>Retirement Community (GPY)</b>	<b>Health Club (GPY)</b>	<b>Café (GPY)</b>
CalEEMod Default Indoor Water Use	2,345,544.92	1,628,850.64	83,391.83	279,251.02
CalEEMod Default Outdoor Water Use	0.00	2,154,578.00	51,111.12	17,824.53
CalEEMod Default Total Water Use	2,345,544.92	3,783,428.64	134,502.95	297,075.55

\*CalEEMod Default water generation rate.

\*\*California Department of Water Resources Outdoor Water Use Calculator, added to "Retirement Community" Outdoor Use

**Area - Hearths**

0%	Woodstoves
0%	Wood Fireplace
100%	Gas Fireplace

**Architectural Coating**

**BAAQMD Regulation 8 Rule 3**

Interior Paint VOC content:	100
Exterior Paint VOC content:	150

**Non-Residential Architectural Coating**

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

Structures	Land Use Square Feet	CalEEMod Paintable Surface Area Multiplier	Total Paintable Surface Area <sup>2</sup>	Paintable Interior Area <sup>1</sup>	Paintable Exterior Area <sup>1</sup>
Congregate Care	59,271	2.7	160,032	120,024	40,008
Retirement Community	74,166	2.7	200,248	150,186	50,062
<b>Residential Totals</b>				<b>270,210</b>	<b>90,070</b>
Community Space-- Café Addition	920	2	1,840	1,380	460
Fitness Facility	1,412	2	2,824	2,118	706
<b>Non-Residential Totals</b>				<b>3,498</b>	<b>1,166</b>
Parking	36,017	0.06	2,161		2,161

Notes:

1

\*CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

2 \*\* Applied CalEEMod Methodology in calculating total

**Water Mitigation**

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

**Energy Mitigation\***

**2016 Building and Energy Efficiency Standards**

Non-Residential Exceed Title 24	5%	Improvement over 2013 <sup>1</sup>
Residential Exceed Title 24	28.0%	Improvement over 2013 <sup>1</sup>

Sources:

1

California Energy Commission. 2015a. 2016 Building Energy Efficiency Standards, Adoption Hearing Presentation. <http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/> June 10.

## Changes to the CalEEMod Defaults - Fleet Mix 2020

Trips 188

Default	LDA	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH		
FleetMix (Model Default)	0.6105	0.03678	0.18308	0.10612	0.01441	0.00501	0.01261	0.02112	0.00214	0.00155	0.00531	0.00063	0.00074	100%
Trips	115	7	34	20	3	1	2	4	0	0	1	0	0	188
Percent	84%			11%		6%								100%
<b>without buses/MH</b>	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0	0	0.005312	0.000000	0	99%
Percent	84%			11%		5%								99%
Adjusted without buses/MH	0.610498	0.036775	0.183084	0.106123	0.015785	0.005484	0.013810	0.023128	0.000000	0.000000	0.005818	0.000000	0.000000	
Percent check	84%			11%		6%								100%
Assumed Mix	97.0%			2.00%		1.00%								100%
<b>adjusted with Assumed</b>	0.708205	0.042661	0.212386	0.020000	0.002712	0.000942	0.002373	0.003973	0.000000	0.000000	0.006749	0.000000	0.000000	100%
Trips	133	8	40	4	1	0	0	1	0	0	1	0	0	188
Percent check	97%			2%		1%								
Check	182			4		2								

Fleet mix for the Residential project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

## Changes to the CalEEMod Defaults - Fleet Mix 2020

Trips 188

Default	LDA	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH		
FleetMix (Model Default)	0.62154	0.03406	0.18014	0.10125	0.01186	0.00506	0.01311	0.02288	0.00222	0.00147	0.00512	0.00065	0.00065	100%
Trips	117	6	34	19	2	1	2	4	0	0	1	0	0	188
Percent	84%			10%		6%								100%
<b>without buses/MH</b>	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0	0	0.005122	0.000000	0	100%
Percent	84%			10%		5%								100%
Adjusted without buses/MH	0.621541	0.034056	0.180136	0.101248	0.012977	0.005537	0.014346	0.025038	0.000000	0.000000	0.005605	0.000000	0.000000	100%
Percent check	84%			10%		6%								100%
Assumed Mix	97.0%			2.00%		1.00%								100%
<b>adjusted with Assumed</b>	0.716591	0.039264	0.207683	0.020000	0.002241	0.000956	0.002478	0.004325	0.000000	0.000000	0.006462	0.000000	0.000000	100%
Trips	135	7	39	4	0	0	0	1	0	0	1	0	0	188
Percent check	97%			2%		1%								
Check	182			4		2								

Fleet mix for the Residential project is modified to reflect a higher proportion of passenger vehicles that the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

**Criteria Air Pollutant Emissions Summary - Construction**

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		1.57	3.76	2.66	0.01	0.31	0.16	0.47	0.11	0.15	0.26
<b>Total Onsite</b>		1.48	2.82	1.96	0.00	0.16	0.16	0.32	0.07	0.15	0.21
<b>Total Offsite</b>		0.09	0.94	0.69	0.00	0.16	0.01	0.17	0.04	0.01	0.05
<b>Total 2018</b>		0.28	2.75	1.60	0.00	0.22	0.12	0.34	0.09	0.11	0.19
<b>Total 2019</b>		0.13	0.78	0.81	0.00	0.08	0.03	0.11	0.02	0.03	0.05
<b>Total 2020</b>		1.16	0.23	0.25	0.00	0.02	0.01	0.03	0.00	0.01	0.01

**FOR CONSTRUCTION RISK ASSESSMENT - Unmitigated Run**

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>2018 Onsite</b>		0.23992	2.16320	1.28790	0.00225	0.16030	0.11315	0.27345	0.06784	0.10565	0.17349
<b>2018 Offsite</b>		0.04	0.59	0.32	0.00	0.07	0.00	0.07	0.02	0.00	0.02
<b>2019 Onsite</b>		0.09	0.48	0.49	0.00	0.00	0.03	0.03	0.00	0.03	0.03
<b>2019 Offsite</b>		0.04	0.30	0.32	0.00	0.08	0.00	0.08	0.02	0.00	0.02
<b>2020 Onsite</b>		1.15	0.18	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01
<b>2020 Offsite</b>		0.01	0.05	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00

**Demolition - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0198	0.1957	0.1138	2.00E-04	0.0103	0.0103	0.0103		9.67E-03	9.67E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		2.20E-04	5.36E-03	1.49E-03	1.00E-05	2.50E-04	4.00E-05	2.90E-04	7.00E-05	4.00E-05	1.10E-04
Worker		4.00E-04	3.10E-04	3.15E-03	1.00E-05	7.30E-04	1.00E-05	7.40E-04	2.00E-04	0	2.00E-04
<b>Total</b>		2.04E-02	2.01E-01	1.18E-01	2.20E-04	9.80E-04	1.04E-02	1.13E-02	2.70E-04	9.71E-03	9.98E-03
<b>TOTAL ONSITE</b>		0.02	0.20	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01
<b>TOTAL OFFSITE</b>		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Demolition Haul - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.01	0.00	0.01	0.00	0.00	0.00
Off-Road		0	0	0	0.00E+00	0	0	0		0.00E+00	0.00E+00
Hauling		2.13E-03	0.0729	0.0142	1.80E-04	3.52E-03	2.90E-04	3.81E-03	9.70E-04	2.80E-04	1.25E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		2.13E-03	7.29E-02	1.42E-02	1.80E-04	3.52E-03	2.90E-04	3.81E-03	9.70E-04	2.80E-04	1.25E-03
<b>TOTAL ONSITE</b>		0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
<b>TOTAL OFFSITE</b>		0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Site Preparation - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.0129	0	0.0129	7.08E-03	0	7.08E-03
Off-Road		9.82E-03	0.1023	0.0569	9.00E-05		5.85E-03	5.85E-03		5.38E-03	5.38E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		3.30E-04	8.04E-03	2.24E-03	2.00E-05	3.70E-04	6.00E-05	4.30E-04	1.10E-04	6.00E-05	1.70E-04
Worker		4.00E-04	3.10E-04	3.15E-03	1.00E-05	7.30E-04	1.00E-05	7.40E-04	2.00E-04	0	2.00E-04
<b>Total</b>		0.01	0.11	0.06	0.00	0.01	0.01	0.02	0.01	0.01	0.01
<b>TOTAL ONSITE</b>		0.01	0.10	0.06	0.00	0.01	0.01	0.02	0.01	0.01	0.01
<b>TOTAL OFFSITE</b>		0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Grading - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.1181	0	0.1181	0.0571	0	0.0571
Off-Road		0.1181	1.3716	0.63	1.30E-03		0.0623	0.0623		0.0573	0.0573
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.71E-03	0.0418	0.0116	9.00E-05	1.92E-03	3.40E-04	2.26E-03	5.60E-04	3.20E-04	8.80E-04
Worker		2.36E-03	1.81E-03	0.0185	5.00E-05	4.28E-03	3.00E-05	4.31E-03	1.15E-03	3.00E-05	1.17E-03
<b>Total</b>		1.22E-01	1.42E+00	6.60E-01	1.44E-03	1.24E-01	6.27E-02	1.87E-01	5.88E-02	5.77E-02	1.16E-01
<b>TOTAL ONSITE</b>		0.12	1.37	0.63	0.00	0.12	0.06	0.18	0.06	0.06	0.11
<b>TOTAL OFFSITE</b>		0.00	0.04	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00

**Grading Haul - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.0181	0	0.0181	1.97E-03	0	1.97E-03
Off-Road		0	0	0	0		0	0		0	0
Hauling		8.14E-03	0.2787	0.0542	6.80E-04	0.0134	1.11E-03	0.0146	3.72E-03	1.07E-03	4.79E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>8.14E-03</b>	<b>2.79E-01</b>	<b>5.42E-02</b>	<b>6.80E-04</b>	<b>3.15E-02</b>	<b>1.11E-03</b>	<b>3.27E-02</b>	<b>5.69E-03</b>	<b>1.07E-03</b>	<b>6.76E-03</b>
<b>TOTAL ONSITE</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.28</b>	<b>0.05</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Building Construction 1a - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0922	0.4936	0.4872	6.60E-04		0.0347	0.0347		0.0333	0.0333
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		6.70E-03	0.1641	0.0457	3.40E-04	7.54E-03	1.32E-03	8.86E-03	2.20E-03	1.26E-03	3.46E-03
Worker		0.0206	0.0159	0.1616	4.10E-04	0.0375	2.70E-04	0.0378	0.01	2.50E-04	0.0103
<b>Total</b>		<b>0.12</b>	<b>0.67</b>	<b>0.69</b>	<b>0.00</b>	<b>0.05</b>	<b>0.04</b>	<b>0.08</b>	<b>0.01</b>	<b>0.03</b>	<b>0.05</b>
<b>TOTAL ONSITE</b>		<b>0.09</b>	<b>0.49</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>
<b>TOTAL OFFSITE</b>		<b>0.03</b>	<b>0.18</b>	<b>0.21</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.05</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>

**Building Construction 1a - 2019**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0406	0.2313	0.2397	3.30E-04		0.0151	0.0151		0.0145	0.0145
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		3.02E-03	0.0778	0.0209	1.70E-04	3.80E-03	5.60E-04	4.35E-03	1.11E-03	5.30E-04	1.64E-03
Worker		9.37E-03	6.98E-03	0.0721	2.00E-04	0.0189	1.40E-04	0.019	5.05E-03	1.20E-04	5.17E-03
<b>Total</b>		<b>0.05</b>	<b>0.32</b>	<b>0.33</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.04</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>
<b>TOTAL ONSITE</b>		<b>0.04</b>	<b>0.23</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.08</b>	<b>0.09</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>

**Building Construction 1b - 2019**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0465	0.248	0.2487	3.40E-04		0.0168	0.0168		0.0162	0.0162
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		7.67E-03	0.1975	0.053	4.30E-04	9.64E-03	1.42E-03	0.0111	2.81E-03	1.36E-03	4.17E-03
Worker		0.0224	0.0167	0.1722	4.80E-04	0.0451	3.20E-04	0.0454	0.0121	3.00E-04	0.0124
<b>Total</b>		<b>0.08</b>	<b>0.46</b>	<b>0.47</b>	<b>0.00</b>	<b>0.05</b>	<b>0.02</b>	<b>0.07</b>	<b>0.01</b>	<b>0.02</b>	<b>0.03</b>
<b>TOTAL ONSITE</b>		<b>0.05</b>	<b>0.25</b>	<b>0.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>
<b>TOTAL OFFSITE</b>		<b>0.03</b>	<b>0.21</b>	<b>0.23</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.06</b>	<b>0.01</b>	<b>0.00</b>	<b>0.02</b>

**Building Construction 1b - 2020**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0104	0.0585	0.061	9.00E-05		3.67E-03	3.67E-03		3.53E-03	3.53E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.55E-03	0.0445	0.0119	1.10E-04	2.41E-03	2.20E-04	2.63E-03	7.00E-04	2.10E-04	9.10E-04
Worker		5.12E-03	3.68E-03	0.0386	1.20E-04	0.0113	8.00E-05	0.0114	3.02E-03	7.00E-05	3.09E-03
<b>Total</b>		<b>0.02</b>	<b>0.11</b>	<b>0.11</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>
<b>TOTAL ONSITE</b>		<b>0.01</b>	<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



### Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

#### Unmigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		5.54	13.25	9.36	0.02	1.10	0.57	1.67	0.39	0.54	0.93
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA

  

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		2.17	21.09	12.29	0.03	1.77	0.89	2.66	0.67	0.83	1.50
TOTAL 2019		0.99	5.96	6.18	0.01	0.59	0.26	0.86	0.16	0.25	0.41
TOTAL 2020		50.52	10.08	10.73	0.02	0.70	0.47	1.17	0.19	0.45	0.63

#### FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		1.84	16.58	9.87	0.02	1.23	0.8670	2.10	0.52	0.8096	1.33
2019 Onsite		0.67	3.67	3.74	0.01	0.00	0.2444	0.24	0.00	0.2352	0.24
2020 Onsite		50.18	7.82	8.17	0.01	0.00	0.4578	0.46	0.00	0.4317	0.43

  

Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.33	4.52	2.42	0.01	0.54	0.0267	0.57	0.15	0.0254	0.17
2019 Onsite		0.33	2.29	2.44	0.01	0.59	0.0187	0.61	0.16	0.0177	0.18
2020 Offsite		0.34	2.26	2.55	0.01	0.70	0.0148	0.71	0.19	0.0135	0.20





### Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

#### Unmitigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		2.96	9.37	8.05	0.01	0.13	0.53	0.66	0.04	0.49	0.53
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2020		2.96	9.37	8.05	0.01	0.13	0.53	0.66	0.04	0.49	0.53

#### FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020 Onsite		2.90	8.96	7.65	0.01	0.02	0.5262	0.55	0.01	0.4869	0.50
Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020 Offsite		0.05	0.41	0.40	0.00	0.11	0.0025	0.11	0.03	0.0022	0.03

### Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

#### Unmitigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		5.04	12.45	9.04	0.02	0.92	0.56	1.48	0.33	0.52	0.85
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		1.75	4.32	3.14	0.01	0.32	0.19	0.51	0.11	0.18	0.29

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		2.17	21.09	12.29	0.03	1.77	0.89	2.66	0.67	0.83	1.50
TOTAL 2019		0.99	5.96	6.18	0.01	0.59	0.26	0.86	0.16	0.25	0.41
TOTAL 2020		53.47	19.45	18.78	0.04	0.83	1.00	1.83	0.23	0.93	1.16

#### FOR CONSTRUCTION RISK ASSESSMENT

##### Onsite Details

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		1.84	16.58	9.87	0.02	1.23	0.87	2.10	0.52	0.81	1.33
2019 Onsite		0.67	3.67	3.74	0.01	0.00	0.24	0.24	0.00	0.24	0.24
2020 Onsite		53.08	16.78	15.82	0.02	0.02	0.98	1.01	0.01	0.92	0.93

##### Offsite Details

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.33	4.52	2.42	0.01	0.54	0.03	0.57	0.15	0.03	0.17
2019 Offsite		0.33	2.29	2.44	0.01	0.59	0.02	0.61	0.16	0.02	0.18
2020 Offsite		0.39	2.67	2.96	0.01	0.81	0.02	0.82	0.22	0.02	0.23

**Criteria Air Pollutant Emissions Summary - Construction**

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		1.57	3.76	2.66	0.01	0.31	0.06	0.37	0.11	0.06	0.17
<b>Total Onsite</b>		1.48	2.82	1.96	0.00	0.16	0.05	0.21	0.07	0.05	0.12
<b>Total Offsite</b>		0.09	0.94	0.69	0.00	0.16	0.01	0.17	0.04	0.01	0.05
<b>Total 2018</b>		0.28	2.75	1.60	0.00	0.22	0.04	0.25	0.09	0.03	0.12
<b>Total 2019</b>		0.13	0.78	0.81	0.00	0.08	0.02	0.10	0.02	0.02	0.04
<b>Total 2020</b>		1.16	0.23	0.25	0.00	0.02	0.00	0.02	0.00	0.00	0.01

**FOR CONSTRUCTION RISK ASSESSMENT - Unmitigated Run**

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>2018 Onsite</b>		0.23992	2.16320	1.28790	0.00225	0.16030	0.03176	0.19206	0.06784	0.03065	0.09849
<b>2018 Offsite</b>		0.04	0.59	0.32	0.00	0.07	0.00	0.07	0.02	0.00	0.02
<b>2019 Onsite</b>		0.09	0.48	0.49	0.00	0.00	0.02	0.02	0.00	0.02	0.02
<b>2019 Offsite</b>		0.04	0.30	0.32	0.00	0.08	0.00	0.08	0.02	0.00	0.02
<b>2020 Onsite</b>		1.15	0.18	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2020 Offsite</b>		0.01	0.05	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00

**Demolition - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0198	0.1957	0.1138	2.00E-04		1.54E-03	1.54E-03		1.45E-03	1.45E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		2.20E-04	5.36E-03	1.49E-03	1.00E-05	2.50E-04	4.00E-05	2.90E-04	7.00E-05	4.00E-05	1.10E-04
Worker		4.00E-04	3.10E-04	3.15E-03	1.00E-05	7.30E-04	1.00E-05	7.40E-04	2.00E-04	0	2.00E-04
<b>Total</b>		2.04E-02	2.01E-01	1.18E-01	2.20E-04	9.80E-04	1.59E-03	2.57E-03	2.70E-04	1.49E-03	1.76E-03
<b>TOTAL ONSITE</b>		0.02	0.20	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL OFFSITE</b>		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Demolition Haul - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.0112	0	0.0112	1.69E-03	0	1.69E-03
Off-Road		0	0	0	0	0	0	0	0	0	0
Hauling		2.13E-03	0.0729	0.0142	1.80E-04	3.52E-03	2.90E-04	3.81E-03	9.70E-04	2.80E-04	1.25E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		2.13E-03	7.29E-02	1.42E-02	1.80E-04	3.52E-03	2.90E-04	3.81E-03	9.70E-04	2.80E-04	1.25E-03
<b>TOTAL ONSITE</b>		0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
<b>TOTAL OFFSITE</b>		0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Site Preparation - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.0129	0	0.0129	7.08E-03	0	7.08E-03
Off-Road		9.82E-03	0.1023	0.0569	9.00E-05		8.80E-04	8.80E-04		8.10E-04	8.10E-04
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		3.30E-04	8.04E-03	2.24E-03	2.00E-05	3.70E-04	6.00E-05	4.30E-04	1.10E-04	6.00E-05	1.70E-04
Worker		4.00E-04	3.10E-04	3.15E-03	1.00E-05	7.30E-04	1.00E-05	7.40E-04	2.00E-04	0	2.00E-04
<b>Total</b>		0.01	0.11	0.06	0.00	0.01	0.00	0.01	0.01	0.00	0.01
<b>TOTAL ONSITE</b>		0.01	0.10	0.06	0.00	0.01	0.00	0.01	0.01	0.00	0.01
<b>TOTAL OFFSITE</b>		0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Grading - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.1181	0	0.1181	0.0571	0	0.0571
Off-Road		0.1181	1.3716	0.63	1.30E-03		9.34E-03	9.34E-03		8.59E-03	8.59E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.71E-03	0.0418	0.0116	9.00E-05	1.92E-03	3.40E-04	2.26E-03	5.60E-04	3.20E-04	8.80E-04
Worker		2.36E-03	1.81E-03	0.0185	5.00E-05	4.28E-03	3.00E-05	4.31E-03	1.15E-03	3.00E-05	1.17E-03
<b>Total</b>		1.22E-01	1.42E+00	6.60E-01	1.44E-03	1.24E-01	9.71E-03	1.34E-01	5.88E-02	8.94E-03	6.77E-02
<b>TOTAL ONSITE</b>		0.12	1.37	0.63	0.00	0.12	0.01	0.13	0.06	0.01	0.07
<b>TOTAL OFFSITE</b>		0.00	0.04	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00

**Grading Haul - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.0181	0	0.0181	1.97E-03	0	1.97E-03
Off-Road		0	0	0	0		0	0		0	0
Hauling		8.14E-03	0.2787	0.0542	6.80E-04	0.0134	1.11E-03	0.0146	3.72E-03	1.07E-03	4.79E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>8.14E-03</b>	<b>2.79E-01</b>	<b>5.42E-02</b>	<b>6.80E-04</b>	<b>3.15E-02</b>	<b>1.11E-03</b>	<b>3.27E-02</b>	<b>5.69E-03</b>	<b>1.07E-03</b>	<b>6.76E-03</b>
<b>TOTAL ONSITE</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.28</b>	<b>0.05</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Building Construction 1a - 2018**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0922	0.4936	0.4872	6.60E-04		0.02	0.02		0.0198	0.0198
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		6.70E-03	0.1641	0.0457	3.40E-04	7.54E-03	1.32E-03	8.86E-03	2.20E-03	1.26E-03	3.46E-03
Worker		0.0206	0.0159	0.1616	4.10E-04	0.0375	2.70E-04	0.0378	0.01	2.50E-04	0.0103
<b>Total</b>		<b>0.12</b>	<b>0.67</b>	<b>0.69</b>	<b>0.00</b>	<b>0.05</b>	<b>0.02</b>	<b>0.07</b>	<b>0.01</b>	<b>0.02</b>	<b>0.03</b>
<b>TOTAL ONSITE</b>		<b>0.09</b>	<b>0.49</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>
<b>TOTAL OFFSITE</b>		<b>0.03</b>	<b>0.18</b>	<b>0.21</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.05</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>

**Building Construction 1a - 2019**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0406	0.2313	0.2397	3.30E-04		8.78E-03	8.78E-03		8.69E-03	8.69E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		3.02E-03	0.0778	0.0209	1.70E-04	3.80E-03	5.60E-04	4.35E-03	1.11E-03	5.30E-04	1.64E-03
Worker		9.37E-03	6.98E-03	0.0721	2.00E-04	0.0189	1.40E-04	0.019	5.05E-03	1.20E-04	5.17E-03
<b>Total</b>		<b>0.05</b>	<b>0.32</b>	<b>0.33</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</b>	<b>0.03</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>
<b>TOTAL ONSITE</b>		<b>0.04</b>	<b>0.23</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.08</b>	<b>0.09</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>

**Building Construction 1b - 2019**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0465	0.248	0.2487	3.40E-04		0.0103	0.0103		0.0102	0.0102
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		7.67E-03	0.1975	0.053	4.30E-04	9.64E-03	1.42E-03	0.0111	2.81E-03	1.36E-03	4.17E-03
Worker		0.0224	0.0167	0.1722	4.80E-04	0.0451	3.20E-04	0.0454	0.0121	3.00E-04	0.0124
<b>Total</b>		<b>0.08</b>	<b>0.46</b>	<b>0.47</b>	<b>0.00</b>	<b>0.05</b>	<b>0.01</b>	<b>0.07</b>	<b>0.01</b>	<b>0.01</b>	<b>0.03</b>
<b>TOTAL ONSITE</b>		<b>0.05</b>	<b>0.25</b>	<b>0.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>
<b>TOTAL OFFSITE</b>		<b>0.03</b>	<b>0.21</b>	<b>0.23</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	<b>0.06</b>	<b>0.01</b>	<b>0.00</b>	<b>0.02</b>

**Building Construction 1b - 2020**

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0104	0.0585	0.061	9.00E-05		2.25E-03	2.25E-03		2.23E-03	2.23E-03
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.55E-03	0.0445	0.0119	1.10E-04	2.41E-03	2.20E-04	2.63E-03	7.00E-04	2.10E-04	9.10E-04
Worker		5.12E-03	3.68E-03	0.0386	1.20E-04	0.0113	8.00E-05	0.0114	3.02E-03	7.00E-05	3.09E-03
<b>Total</b>		<b>0.02</b>	<b>0.11</b>	<b>0.11</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>
<b>TOTAL ONSITE</b>		<b>0.01</b>	<b>0.06</b>	<b>0.06</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL OFFSITE</b>		<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



## Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

### Unmigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		5.54	13.25	9.36	0.02	1.10	0.21	1.32	0.39	0.21	0.60
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA

  

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		2.17	21.09	12.29	0.03	1.77	0.27	2.04	0.67	0.26	0.93
TOTAL 2019		0.99	5.96	6.18	0.01	0.59	0.16	0.76	0.16	0.16	0.32
TOTAL 2020		50.52	10.08	10.73	0.02	0.70	0.16	0.86	0.19	0.16	0.35

### FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		1.84	16.58	9.87	0.02	1.23	0.2434	1.47	0.52	0.2349	0.75
2019 Onsite		0.67	3.67	3.74	0.01	0.00	0.1462	0.15	0.00	0.1448	0.14
2020 Onsite		50.18	7.82	8.17	0.01	0.00	0.1496	0.15	0.00	0.1457	0.15

  

Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.33	4.52	2.42	0.01	0.54	0.0267	0.57	0.15	0.0254	0.17
2019 Onsite		0.33	2.29	2.44	0.01	0.59	0.0187	0.61	0.16	0.0177	0.18
2020 Offsite		0.34	2.26	2.55	0.01	0.70	0.0148	0.71	0.19	0.0135	0.20





### Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

#### Unmitigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		2.96	9.37	8.05	0.01	0.13	0.08	0.22	0.04	0.08	0.12
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2020		2.96	9.37	8.05	0.01	0.13	0.08	0.22	0.04	0.08	0.12

#### FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020 Onsite		2.90	8.96	7.65	0.01	0.02	0.0807	0.10	0.01	0.0746	0.09
Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020 Offsite		0.05	0.41	0.40	0.00	0.11	0.0025	0.11	0.03	0.0022	0.03

### Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

#### Unmigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
<b>Total</b>		5.04	12.45	9.04	0.02	0.92	0.19	1.11	0.33	0.18	0.51
<b>BAAQMD Threshold</b>		54	54	NA	NA	BMP	82	54	BMP	54	NA
<b>Exceeds Threshold</b>		No	No	NA	NA	NA	No	No	NA	No	NA

  

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		2.17	21.09	12.29	0.03	1.77	0.27	2.04	0.67	0.26	0.93
TOTAL 2019		0.99	5.96	6.18	0.01	0.59	0.16	0.76	0.16	0.16	0.32
TOTAL 2020		50.52	10.08	10.73	0.02	0.70	0.16	0.86	0.19	0.16	0.35

#### FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		1.84	16.58	9.87	0.02	1.23	0.24	1.47	0.52	0.23	0.75
2019 Onsite		0.67	3.67	3.74	0.01	0.00	0.15	0.15	0.00	0.14	0.14
2020 Onsite		50.18	7.82	8.17	0.01	0.00	0.15	0.15	0.00	0.15	0.15

  

Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.33	4.52	2.42	0.01	0.54	0.03	0.57	0.15	0.03	0.17
2019 Onsite		0.33	2.29	2.44	0.01	0.59	0.02	0.61	0.16	0.02	0.18
2020 Offsite		0.34	2.26	2.55	0.01	0.70	0.01	0.71	0.19	0.01	0.20

## Criteria Air Pollutant Emissions Summary - Operations

Proposed Project - Total Annual Emission Rates

	Tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		0.6464	5.24E-03	0.4544	2.00E-05		2.51E-03	<b>2.51E-03</b>		2.51E-03	<b>2.51E-03</b>
Energy Use		4.24E-03	0.0368	0.0198	2.30E-04		2.93E-03	<b>2.93E-03</b>		2.93E-03	<b>2.93E-03</b>
Mobile Sources		0.039	0.0622	0.4628	1.41E-03	0.1592	1.04E-03	<b>0.1603</b>	0.0423	9.60E-04	<b>0.0433</b>
Waste Generation							0	<b>0</b>		0	<b>0</b>
Water/Wastewater							0	<b>0</b>		0	<b>0</b>
<b>Total</b>		<b>0.69</b>	<b>0.10</b>	<b>0.94</b>	<b>0.00</b>	<b>0.16</b>	<b>0.01</b>	<b>0.17</b>	<b>0.04</b>	<b>0.01</b>	<b>0.05</b>
BAAQMD Threshold (Annual)		10.00	10.00	NA	NA	NA	NA	<b>15.00</b>	NA	NA	<b>10.00</b>
Exceeds Threshold		No	No	NA	NA	NA	NA	<b>No</b>	NA	NA	<b>No</b>

### Criteria Air Pollutant Emissions Summary - Operations

Annual emissions divided by 365 days/year to obtain average daily emissions.

Proposed Project - 2022 Emission Rates											
	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources	3.54191781	0.028712	2.489863	0.00011		0	0.013753	0.013753	0	0.013753	0.013753
Energy Use	0.02323288	0.201644	0.108493	0.00126		0	0.016055	0.016055	0	0.016055	0.016055
Mobile Sources	0.21369863	0.340822	2.53589	0.007726		0.872329	0.005699	0.878356	0.231781	0.00526	0.23726
Waste Generation	0	0	0	0		0	0	0	0	0	0
Water/Wastewater	0	0	0	0		0	0	0	0	0	0
<b>Total</b>	<b>3.78</b>	<b>0.57</b>	<b>5.13</b>	<b>0.01</b>		<b>0.87</b>	<b>0.04</b>	<b>0.91</b>	<b>0.23</b>	<b>0.04</b>	<b>0.27</b>
BAAQMD Threshold (Daily)		54	54 NA	NA	NA	NA		82 NA	NA	NA	54
Exceeds Threshold		No	No NA	NA	NA	NA		No NA	NA	NA	No

## Greenhouse Gas Emissions Summary

### Operation

#### Proposed Project - Total Emission Rates

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	0.7417	0.7417	7.20E-04	0	0.7597	0%
Energy Use		0	180.8839	180.8839	7.09E-03	2.07E-03	181.6776	52%
Mobile Sources		0	127.4791	127.4791	3.99E-03	0	127.5788	36%
Waste Generation		12.7864	0	12.7864	0.7557	0	31.6778	9%
Water/Wastewater		1.2276	7.5875	8.815	4.57E-03	2.74E-03	9.7459	3%
<b>Total</b>		<b>14</b>	<b>317</b>	<b>331</b>	<b>1</b>	<b>0</b>	<b>351.44</b>	<b>100%</b>
BAAQMD Threshold							<b>1100</b>	
Exceeds Threshold							<b>No</b>	
Service Population							<b>76</b>	
Year 2022 Forecasted Efficiency Metric Threshold							<b>4.60</b>	
<del>BAAQMD Efficiency Threshold</del>							<b>4.6</b>	
MTCO2E per Service Pop							<b>4.62</b>	
Exceeds Threshold							<b>Yes</b>	

#### Construction

##### Construction

Unmitigated	Phase 1	Phase 2	Total
2018	420.3452	0.00	420.3452
2019	198.0555	0.00	198.0555
2020	50.1488	72.4537	122.6025
<b>Total Construction</b>	<b>420.3452</b>	<b>72.4537</b>	<b>741.0032</b>

30-Year Amortization **25**

BAAQMD Threshold **1100**

Exceeds Threshold **No**

## STATEWIDE TRAJECTORY FOR INTERIM GHG TARGET

### 2035 CALIFORNIA SERVICE POPULATION (ESTIMATE)

#### Employment

Total Employment	
2020	17,511,810
2022	17,851,940
2030	19,210,760
2035	20,027,660
2038	20,515,420
2040	20,848,900
2050	22,595,640

California Department of Transportation. Long-Term Socio-Economic Forecasts by County. [http://www.dot.ca.gov/hq/tpp/offices/eab/index\\_files/2016/CaliforniaForecastData2016.xls](http://www.dot.ca.gov/hq/tpp/offices/eab/index_files/2016/CaliforniaForecastData2016.xls)

#### Population

2020	40,619,346
2022	41,315,865
2030	44,085,600
2035	44,085,600
2038	46,657,547
2040	47,233,240
2050	49,779,362

California Department of Finance. 2016. Report P-2: State and County Population Projections by Race/Ethnicity and Age (5-year groups). [http://www.dof.ca.gov/Forecasting/Demographics/projections/documents/P-2\\_Age5yr\\_CAProj\\_2010-2060.xls](http://www.dof.ca.gov/Forecasting/Demographics/projections/documents/P-2_Age5yr_CAProj_2010-2060.xls)

#### Service Population (SP)

2020 SP	58,131,156
2022 SP	59,167,805
2030 SP	63,296,360
2035 SP	64,113,260
2038 SP	67,172,967
2040 SP	68,082,140
2050 SP	72,375,002

## FORECASTING THE POST-2020 GHG REDUCTION TARGETS - EFFICIENCY METRIC

	Source	MTCO <sub>2</sub> e (SAR)	MTCO <sub>2</sub> e/SP	
	BAAQMD & SCAQMD: Land Use Sector Inventory			
2020	2008 Scoping Plan	295,530,000	5.1	
2030	40% Below 1990 Levels	177,318,000	2.8	
2050	80% Below 1990 Levels	59,106,000	0.8	
2022	Forecast (2020-2030)	271,887,600	4.6	8%
2035	Forecast (2030-2050)	147,765,000	2.3	50%
2038	Forecast (2030-2050)	130,033,200	1.9	56%
2040	Forecast (2030-2050)	118,212,000	1.7	60%

## 1990 Inventory - Land Use Only (IPCC Fourth Assessment Report GWPs)

Sector	Notes	MTCO <sub>2</sub> e
Electricity	Removed Industrial	95,964,000
Transportation	On-Road Only	140,906,000
Landfills	Landfill Extracted from Industrial	7,448,000
Wastewater	Wastewater Treatment Extracted from Industrial	3,581,000
Commercial	Removed National Security	13,873,000
Residential	Includes all	29,740,000
Other	Not Specified	1,269,000
Construction		673,000
<b>TOTAL LAND USE</b>		<b>293,454,000</b>

	Source	MTCO <sub>2</sub> e (SAR)	MTCO <sub>2</sub> e/SP
2020	1990 Land Use Sector Inventory	293,454,000	5.0
2030	40% Below 1990 Levels	176,072,400	2.8
2050	80% Below 1990 Levels	58,690,800	0.8
2022	Forecast (2020-2030)	269,977,680	4.6
2035	Forecast (2030-2050)	146,727,000	2.3
2038	Forecast (2030-2050)	129,119,760	1.9
2040	Forecast (2030-2050)	117,381,600	1.7

Forum Construction Phase 1 - Santa Clara County, Annual

**Forum Construction Phase 1 -- Unmitigated  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.58	1000sqft	0.06	2,584.00	0
Enclosed Parking with Elevator	27.81	1000sqft	0.64	27,810.00	0
Other Asphalt Surfaces	35.50	1000sqft	0.81	35,500.00	0
Other Non-Asphalt Surfaces	28.42	1000sqft	0.65	28,420.00	0
Parking Lot	8.21	1000sqft	0.19	8,210.00	0
Fast Food Restaurant w/o Drive Thru	0.92	1000sqft	0.02	920.00	0
Health Club	3.14	1000sqft	0.07	3,142.00	0
Congregate Care (Assisted Living)	36.00	Dwelling Unit	2.23	97,296.00	103
Retirement Community	25.00	Dwelling Unit	1.31	57,166.00	72

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - See CalEEMod Assumptions, does not include landscaping

Construction Phase - See CalEEMod Assumptions



Off-road Equipment -

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - Haul Phase

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - Haul Phase

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Trips and VMT - See CalEEMod Assumptions

Demolition -

Grading - Haul Phase

Architectural Coating - See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - BAAWMD BMPs

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	5,996.00	2,161.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	20.00	78.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	PhaseEndDate	9/10/2020	3/4/2020
tblConstructionPhase	PhaseEndDate	9/4/2019	4/17/2019
tblConstructionPhase	PhaseEndDate	7/22/2020	3/4/2020
tblConstructionPhase	PhaseEndDate	2/13/2018	1/26/2018
tblConstructionPhase	PhaseEndDate	6/15/2018	5/30/2018
tblConstructionPhase	PhaseEndDate	10/17/2018	6/13/2018
tblConstructionPhase	PhaseEndDate	8/17/2020	3/4/2020

tblConstructionPhase	PhaseEndDate	2/27/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	8/18/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	10/18/2018	5/31/2018
tblConstructionPhase	PhaseStartDate	9/5/2019	4/18/2019
tblConstructionPhase	PhaseStartDate	1/27/2018	1/11/2018
tblConstructionPhase	PhaseStartDate	2/28/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	6/16/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	7/23/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	2/14/2018	1/27/2018
tblFleetMix	FleetMixLandUseSubType	General Office Building	Congregate Care (Assisted Living)
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Fast Food Restaurant w/o Drive Thru
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	General Office Building
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Health Club
tblFleetMix	FleetMixLandUseSubType	Fast Food Restaurant w/o Drive Thru	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Health Club	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Congregate Care (Assisted Living)	Parking Lot
tblGrading	AcresOfGrading	0.00	78.00
tblGrading	MaterialExported	0.00	15,300.00
tblLandUse	BuildingSpaceSquareFeet	2,580.00	2,584.00
tblLandUse	BuildingSpaceSquareFeet	3,140.00	3,142.00
tblLandUse	BuildingSpaceSquareFeet	36,000.00	97,296.00
tblLandUse	BuildingSpaceSquareFeet	25,000.00	57,166.00
tblLandUse	LandUseSquareFeet	2,580.00	2,584.00
tblLandUse	LandUseSquareFeet	3,140.00	3,142.00
tblLandUse	LandUseSquareFeet	36,000.00	97,296.00
tblLandUse	LandUseSquareFeet	25,000.00	57,166.00
tblLandUse	LotAcreage	2.25	2.23
tblLandUse	LotAcreage	5.00	1.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	241.00	445.00

tblTripsAndVMT	HaulingTripNumber	1,913.00	1,700.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	24.00	16.00
tblTripsAndVMT	VendorTripNumber	24.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	88.00	67.00
tblTripsAndVMT	WorkerTripNumber	88.00	67.00
tblTripsAndVMT	WorkerTripNumber	18.00	13.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2829	2.7523	1.6037	4.0300e-003	0.4505	0.1165	0.5670	0.1792	0.1089	0.2882	0.0000	367.0741	367.0741	0.0643	0.0000	368.6807
2019	0.1295	0.7782	0.8065	1.9500e-003	0.0837	0.0343	0.1180	0.0226	0.0330	0.0556	0.0000	172.0545	172.0545	0.0166	0.0000	172.4705
2020	1.1618	0.2319	0.2467	5.3000e-004	0.0173	0.0109	0.0282	4.6700e-003	0.0103	0.0149	0.0000	47.1078	47.1078	7.0000e-003	0.0000	47.2829
<b>Maximum</b>	<b>1.1618</b>	<b>2.7523</b>	<b>1.6037</b>	<b>4.0300e-003</b>	<b>0.4505</b>	<b>0.1165</b>	<b>0.5670</b>	<b>0.1792</b>	<b>0.1089</b>	<b>0.2882</b>	<b>0.0000</b>	<b>367.0741</b>	<b>367.0741</b>	<b>0.0643</b>	<b>0.0000</b>	<b>368.6807</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2829	2.7523	1.6037	4.0300e-003	0.2304	0.1165	0.3469	0.0870	0.1089	0.1960	0.0000	367.0739	367.0739	0.0643	0.0000	368.6805
2019	0.1295	0.7782	0.8065	1.9500e-003	0.0774	0.0343	0.1117	0.0210	0.0330	0.0540	0.0000	172.0545	172.0545	0.0166	0.0000	172.4705
2020	1.1618	0.2319	0.2467	5.3000e-004	0.0160	0.0109	0.0269	4.3500e-003	0.0103	0.0146	0.0000	47.1078	47.1078	7.0000e-003	0.0000	47.2829
<b>Maximum</b>	<b>1.1618</b>	<b>2.7523</b>	<b>1.6037</b>	<b>4.0300e-003</b>	<b>0.2304</b>	<b>0.1165</b>	<b>0.3469</b>	<b>0.0870</b>	<b>0.1089</b>	<b>0.1960</b>	<b>0.0000</b>	<b>367.0739</b>	<b>367.0739</b>	<b>0.0643</b>	<b>0.0000</b>	<b>368.6805</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>41.28</b>	<b>0.00</b>	<b>31.92</b>	<b>45.55</b>	<b>0.00</b>	<b>26.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.2653	1.2653
2	4-1-2018	6-30-2018	1.2641	1.2641
3	7-1-2018	9-30-2018	0.3392	0.3392
4	10-1-2018	12-31-2018	0.3424	0.3424
5	1-1-2019	3-31-2019	0.3096	0.3096
6	4-1-2019	6-30-2019	0.2117	0.2117
7	7-1-2019	9-30-2019	0.1911	0.1911
8	10-1-2019	12-31-2019	0.1939	0.1939
9	1-1-2020	3-31-2020	1.4343	1.4343
		Highest	1.4343	1.4343

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489
Energy	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	224.3227	224.3227	8.6900e-003	2.6000e-003	225.3149
Mobile	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347
Waste						0.0000	0.0000		0.0000	0.0000	15.2751	0.0000	15.2751	0.9027	0.0000	37.8433
Water						0.0000	0.0000		0.0000	0.0000	1.5539	10.6813	12.2352	0.1601	3.8700e-003	17.3900
<b>Total</b>	<b>1.0655</b>	<b>0.6483</b>	<b>2.2932</b>	<b>6.5900e-003</b>	<b>0.5867</b>	<b>0.0389</b>	<b>0.6256</b>	<b>0.1570</b>	<b>0.0385</b>	<b>0.1956</b>	<b>19.6099</b>	<b>775.7892</b>	<b>795.3991</b>	<b>1.0940</b>	<b>6.6500e-003</b>	<b>824.7319</b>



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Demo Haul	Demolition	1/11/2018	1/26/2018	5	12	
3	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
4	Grading	Grading	2/10/2018	5/30/2018	5	78	
5	Grading Haul	Grading	2/10/2018	6/13/2018	5	88	
6	Building Construction 1a	Building Construction	5/31/2018	4/17/2019	5	230	
7	Building Construction 1b	Building Construction	4/18/2019	3/4/2020	5	230	
8	Paving	Paving	2/8/2020	3/4/2020	5	18	
9	Architectural Coating	Architectural Coating	2/8/2020	3/4/2020	5	18	

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

**Acres of Grading (Grading Phase): 78**

**Acres of Paving: 2.29**

**Residential Indoor: 312,786; Residential Outdoor: 104,262; Non-Residential Indoor: 9,969; Non-Residential Outdoor: 3,323; Striped**

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37



Building Construction 1a	Cranes	0	7.00	231	0.29
Building Construction 1a	Forklifts	2	2.00	89	0.20
Building Construction 1a	Generator Sets	0	8.00	84	0.74
Building Construction 1a	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 1a	Welders	2	8.00	46	0.45
Building Construction 1b	Cranes	0	7.00	231	0.29
Building Construction 1b	Forklifts	3	2.00	89	0.20
Building Construction 1b	Generator Sets	0	8.00	84	0.74
Building Construction 1b	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction 1b	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Excavators	0	8.00	158	0.38
Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	20.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	67.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1a Building Construction	4	67.00	17.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1b Paving	8	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	445.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,700.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0198	0.1957	0.1138	2.0000e-004		0.0103	0.0103		9.6700e-003	9.6700e-003	0.0000	17.8935	17.8935	4.3100e-003	0.0000	18.0014
<b>Total</b>	<b>0.0198</b>	<b>0.1957</b>	<b>0.1138</b>	<b>2.0000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.6700e-003</b>	<b>9.6700e-003</b>	<b>0.0000</b>	<b>17.8935</b>	<b>17.8935</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>18.0014</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	5.3600e-003	1.4900e-003	1.0000e-005	2.6000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.0587	1.0587	5.0000e-005	0.0000	1.0601
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>6.2000e-004</b>	<b>5.6700e-003</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>5.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>4.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.7823</b>	<b>1.7823</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7842</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0198	0.1957	0.1138	2.0000e-004		0.0103	0.0103		9.6700e-003	9.6700e-003	0.0000	17.8935	17.8935	4.3100e-003	0.0000	18.0013
<b>Total</b>	<b>0.0198</b>	<b>0.1957</b>	<b>0.1138</b>	<b>2.0000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.6700e-003</b>	<b>9.6700e-003</b>	<b>0.0000</b>	<b>17.8935</b>	<b>17.8935</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>18.0013</b>





### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1300e-003	0.0729	0.0142	1.8000e-004	3.5200e-003	2.9000e-004	3.8100e-003	9.7000e-004	2.8000e-004	1.2500e-003	0.0000	17.3171	17.3171	8.2000e-004	0.0000	17.3375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0729</b>	<b>0.0142</b>	<b>1.8000e-004</b>	<b>3.5200e-003</b>	<b>2.9000e-004</b>	<b>3.8100e-003</b>	<b>9.7000e-004</b>	<b>2.8000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>17.3171</b>	<b>17.3171</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>17.3375</b>

### 3.4 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8200e-003	0.1023	0.0569	9.0000e-005		5.8500e-003	5.8500e-003		5.3800e-003	5.3800e-003	0.0000	8.1579	8.1579	2.5400e-003	0.0000	8.2214
<b>Total</b>	<b>9.8200e-003</b>	<b>0.1023</b>	<b>0.0569</b>	<b>9.0000e-005</b>	<b>0.0301</b>	<b>5.8500e-003</b>	<b>0.0360</b>	<b>0.0166</b>	<b>5.3800e-003</b>	<b>0.0219</b>	<b>0.0000</b>	<b>8.1579</b>	<b>8.1579</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>8.2214</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	8.0400e-003	2.2400e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.6000e-004	1.1000e-004	6.0000e-005	1.8000e-004	0.0000	1.5881	1.5881	8.0000e-005	0.0000	1.5902
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>7.3000e-004</b>	<b>8.3500e-003</b>	<b>5.3900e-003</b>	<b>3.0000e-005</b>	<b>1.1800e-003</b>	<b>7.0000e-005</b>	<b>1.2600e-003</b>	<b>3.2000e-004</b>	<b>6.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.3117</b>	<b>2.3117</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.3143</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0129	0.0000	0.0129	7.0800e-003	0.0000	7.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8200e-003	0.1023	0.0569	9.0000e-005		5.8500e-003	5.8500e-003		5.3800e-003	5.3800e-003	0.0000	8.1579	8.1579	2.5400e-003	0.0000	8.2214
<b>Total</b>	<b>9.8200e-003</b>	<b>0.1023</b>	<b>0.0569</b>	<b>9.0000e-005</b>	<b>0.0129</b>	<b>5.8500e-003</b>	<b>0.0187</b>	<b>7.0800e-003</b>	<b>5.3800e-003</b>	<b>0.0125</b>	<b>0.0000</b>	<b>8.1579</b>	<b>8.1579</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>8.2214</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	8.0400e-003	2.2400e-003	2.0000e-005	3.7000e-004	6.0000e-005	4.3000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.5881	1.5881	8.0000e-005	0.0000	1.5902
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>7.3000e-004</b>	<b>8.3500e-003</b>	<b>5.3900e-003</b>	<b>3.0000e-005</b>	<b>1.1000e-003</b>	<b>7.0000e-005</b>	<b>1.1700e-003</b>	<b>3.1000e-004</b>	<b>6.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>2.3117</b>	<b>2.3117</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.3143</b>

### **3.5 Grading - 2018**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2762	0.0000	0.2762	0.1336	0.0000	0.1336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1181	1.3716	0.6300	1.3000e-003		0.0623	0.0623		0.0573	0.0573	0.0000	118.3532	118.3532	0.0368	0.0000	119.2743
<b>Total</b>	<b>0.1181</b>	<b>1.3716</b>	<b>0.6300</b>	<b>1.3000e-003</b>	<b>0.2762</b>	<b>0.0623</b>	<b>0.3385</b>	<b>0.1336</b>	<b>0.0573</b>	<b>0.1909</b>	<b>0.0000</b>	<b>118.3532</b>	<b>118.3532</b>	<b>0.0368</b>	<b>0.0000</b>	<b>119.2743</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	0.0418	0.0116	9.0000e-005	2.0500e-003	3.4000e-004	2.3900e-003	5.9000e-004	3.2000e-004	9.1000e-004	0.0000	8.2581	8.2581	4.3000e-004	0.0000	8.2688
Worker	2.3600e-003	1.8100e-003	0.0185	5.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.2330	4.2330	1.3000e-004	0.0000	4.2362
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0436</b>	<b>0.0301</b>	<b>1.4000e-004</b>	<b>6.6900e-003</b>	<b>3.7000e-004</b>	<b>7.0600e-003</b>	<b>1.8200e-003</b>	<b>3.5000e-004</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>12.4911</b>	<b>12.4911</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>12.5050</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1181	0.0000	0.1181	0.0571	0.0000	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1181	1.3716	0.6300	1.3000e-003		0.0623	0.0623		0.0573	0.0573	0.0000	118.3531	118.3531	0.0368	0.0000	119.2742
<b>Total</b>	<b>0.1181</b>	<b>1.3716</b>	<b>0.6300</b>	<b>1.3000e-003</b>	<b>0.1181</b>	<b>0.0623</b>	<b>0.1804</b>	<b>0.0571</b>	<b>0.0573</b>	<b>0.1144</b>	<b>0.0000</b>	<b>118.3531</b>	<b>118.3531</b>	<b>0.0368</b>	<b>0.0000</b>	<b>119.2742</b>





**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1400e-003	0.2787	0.0542	6.8000e-004	0.0134	1.1100e-003	0.0146	3.7200e-003	1.0700e-003	4.7900e-003	0.0000	66.1550	66.1550	3.1200e-003	0.0000	66.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.1400e-003</b>	<b>0.2787</b>	<b>0.0542</b>	<b>6.8000e-004</b>	<b>0.0134</b>	<b>1.1100e-003</b>	<b>0.0146</b>	<b>3.7200e-003</b>	<b>1.0700e-003</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>66.1550</b>	<b>66.1550</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>66.2331</b>

**3.7 Building Construction 1a - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0922	0.4936	0.4872	6.6000e-004		0.0347	0.0347		0.0333	0.0333	0.0000	53.1274	53.1274	0.0131	0.0000	53.4548
<b>Total</b>	<b>0.0922</b>	<b>0.4936</b>	<b>0.4872</b>	<b>6.6000e-004</b>		<b>0.0347</b>	<b>0.0347</b>		<b>0.0333</b>	<b>0.0333</b>	<b>0.0000</b>	<b>53.1274</b>	<b>53.1274</b>	<b>0.0131</b>	<b>0.0000</b>	<b>53.4548</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1641	0.0457	3.4000e-004	8.0500e-003	1.3200e-003	9.3700e-003	2.3300e-003	1.2600e-003	3.5900e-003	0.0000	32.3971	32.3971	1.6800e-003	0.0000	32.4391
Worker	0.0206	0.0159	0.1616	4.1000e-004	0.0407	2.7000e-004	0.0409	0.0108	2.5000e-004	0.0111	0.0000	37.0879	37.0879	1.1100e-003	0.0000	37.1157
<b>Total</b>	<b>0.0273</b>	<b>0.1799</b>	<b>0.2073</b>	<b>7.5000e-004</b>	<b>0.0487</b>	<b>1.5900e-003</b>	<b>0.0503</b>	<b>0.0131</b>	<b>1.5100e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>69.4849</b>	<b>69.4849</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>69.5548</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0922	0.4936	0.4872	6.6000e-004		0.0347	0.0347		0.0333	0.0333	0.0000	53.1273	53.1273	0.0131	0.0000	53.4548
<b>Total</b>	<b>0.0922</b>	<b>0.4936</b>	<b>0.4872</b>	<b>6.6000e-004</b>		<b>0.0347</b>	<b>0.0347</b>		<b>0.0333</b>	<b>0.0333</b>	<b>0.0000</b>	<b>53.1273</b>	<b>53.1273</b>	<b>0.0131</b>	<b>0.0000</b>	<b>53.4548</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1641	0.0457	3.4000e-004	7.5400e-003	1.3200e-003	8.8600e-003	2.2000e-003	1.2600e-003	3.4600e-003	0.0000	32.3971	32.3971	1.6800e-003	0.0000	32.4391
Worker	0.0206	0.0159	0.1616	4.1000e-004	0.0375	2.7000e-004	0.0378	0.0100	2.5000e-004	0.0103	0.0000	37.0879	37.0879	1.1100e-003	0.0000	37.1157
<b>Total</b>	<b>0.0273</b>	<b>0.1799</b>	<b>0.2073</b>	<b>7.5000e-004</b>	<b>0.0450</b>	<b>1.5900e-003</b>	<b>0.0466</b>	<b>0.0122</b>	<b>1.5100e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>69.4849</b>	<b>69.4849</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>69.5548</b>

**3.7 Building Construction 1a - 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					
Off-Road	0.0406	0.2313	0.2397	3.3000e-004		0.0151	0.0151		0.0145	0.0145	0.0000	26.5343	26.5343	6.2300e-003	0.0000	26.6901
<b>Total</b>	<b>0.0406</b>	<b>0.2313</b>	<b>0.2397</b>	<b>3.3000e-004</b>		<b>0.0151</b>	<b>0.0151</b>		<b>0.0145</b>	<b>0.0145</b>	<b>0.0000</b>	<b>26.5343</b>	<b>26.5343</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>26.6901</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.0778	0.0209	1.7000e-004	4.0500e-003	5.6000e-004	4.6100e-003	1.1700e-003	5.3000e-004	1.7100e-003	0.0000	16.2040	16.2040	8.0000e-004	0.0000	16.2241
Worker	9.3700e-003	6.9800e-003	0.0721	2.0000e-004	0.0205	1.4000e-004	0.0206	5.4400e-003	1.2000e-004	5.5700e-003	0.0000	18.1102	18.1102	4.9000e-004	0.0000	18.1226
<b>Total</b>	<b>0.0124</b>	<b>0.0848</b>	<b>0.0929</b>	<b>3.7000e-004</b>	<b>0.0245</b>	<b>7.0000e-004</b>	<b>0.0252</b>	<b>6.6100e-003</b>	<b>6.5000e-004</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>34.3142</b>	<b>34.3142</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>34.3467</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0406	0.2313	0.2397	3.3000e-004		0.0151	0.0151		0.0145	0.0145	0.0000	26.5342	26.5342	6.2300e-003	0.0000	26.6900
<b>Total</b>	<b>0.0406</b>	<b>0.2313</b>	<b>0.2397</b>	<b>3.3000e-004</b>		<b>0.0151</b>	<b>0.0151</b>		<b>0.0145</b>	<b>0.0145</b>	<b>0.0000</b>	<b>26.5342</b>	<b>26.5342</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>26.6900</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.0778	0.0209	1.7000e-004	3.8000e-003	5.6000e-004	4.3500e-003	1.1100e-003	5.3000e-004	1.6400e-003	0.0000	16.2040	16.2040	8.0000e-004	0.0000	16.2241
Worker	9.3700e-003	6.9800e-003	0.0721	2.0000e-004	0.0189	1.4000e-004	0.0190	5.0500e-003	1.2000e-004	5.1700e-003	0.0000	18.1102	18.1102	4.9000e-004	0.0000	18.1226
<b>Total</b>	<b>0.0124</b>	<b>0.0848</b>	<b>0.0929</b>	<b>3.7000e-004</b>	<b>0.0227</b>	<b>7.0000e-004</b>	<b>0.0234</b>	<b>6.1600e-003</b>	<b>6.5000e-004</b>	<b>6.8100e-003</b>	<b>0.0000</b>	<b>34.3142</b>	<b>34.3142</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>34.3467</b>

**3.8 Building Construction 1b - 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					
Off-Road	0.0465	0.2480	0.2487	3.4000e-004		0.0168	0.0168		0.0162	0.0162	0.0000	26.7883	26.7883	5.8900e-003	0.0000	26.9356
<b>Total</b>	<b>0.0465</b>	<b>0.2480</b>	<b>0.2487</b>	<b>3.4000e-004</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>26.7883</b>	<b>26.7883</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>26.9356</b>



### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6700e-003	0.1975	0.0530	4.3000e-004	0.0103	1.4200e-003	0.0117	2.9700e-003	1.3600e-003	4.3300e-003	0.0000	41.1413	41.1413	2.0400e-003	0.0000	41.1923
Worker	0.0224	0.0167	0.1722	4.8000e-004	0.0489	3.2000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	43.2764	43.2764	1.1800e-003	0.0000	43.3059
<b>Total</b>	<b>0.0301</b>	<b>0.2142</b>	<b>0.2252</b>	<b>9.1000e-004</b>	<b>0.0592</b>	<b>1.7400e-003</b>	<b>0.0609</b>	<b>0.0160</b>	<b>1.6600e-003</b>	<b>0.0176</b>	<b>0.0000</b>	<b>84.4177</b>	<b>84.4177</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>84.4982</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.2480	0.2487	3.4000e-004		0.0168	0.0168		0.0162	0.0162	0.0000	26.7883	26.7883	5.8900e-003	0.0000	26.9356
<b>Total</b>	<b>0.0465</b>	<b>0.2480</b>	<b>0.2487</b>	<b>3.4000e-004</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>26.7883</b>	<b>26.7883</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>26.9356</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6700e-003	0.1975	0.0530	4.3000e-004	9.6400e-003	1.4200e-003	0.0111	2.8100e-003	1.3600e-003	4.1700e-003	0.0000	41.1413	41.1413	2.0400e-003	0.0000	41.1923
Worker	0.0224	0.0167	0.1722	4.8000e-004	0.0451	3.2000e-004	0.0454	0.0121	3.0000e-004	0.0124	0.0000	43.2764	43.2764	1.1800e-003	0.0000	43.3059
<b>Total</b>	<b>0.0301</b>	<b>0.2142</b>	<b>0.2252</b>	<b>9.1000e-004</b>	<b>0.0547</b>	<b>1.7400e-003</b>	<b>0.0565</b>	<b>0.0149</b>	<b>1.6600e-003</b>	<b>0.0165</b>	<b>0.0000</b>	<b>84.4177</b>	<b>84.4177</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>84.4982</b>

**3.8 Building Construction 1b - 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	0.0104	0.0585	0.0610	9.0000e-005		3.6700e-003	3.6700e-003		3.5300e-003	3.5300e-003	0.0000	6.6456	6.6456	1.3900e-003	0.0000	6.6803
<b>Total</b>	<b>0.0104</b>	<b>0.0585</b>	<b>0.0610</b>	<b>9.0000e-005</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>6.6456</b>	<b>6.6456</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.6803</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5500e-003	0.0445	0.0119	1.1000e-004	2.5700e-003	2.2000e-004	2.7900e-003	7.4000e-004	2.1000e-004	9.5000e-004	0.0000	10.2224	10.2224	4.7000e-004	0.0000	10.2341
Worker	5.1200e-003	3.6800e-003	0.0386	1.2000e-004	0.0122	8.0000e-005	0.0123	3.2500e-003	7.0000e-005	3.3200e-003	0.0000	10.4811	10.4811	2.6000e-004	0.0000	10.4875
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0482</b>	<b>0.0504</b>	<b>2.3000e-004</b>	<b>0.0148</b>	<b>3.0000e-004</b>	<b>0.0151</b>	<b>3.9900e-003</b>	<b>2.8000e-004</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>20.7035</b>	<b>20.7035</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>20.7217</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0585	0.0610	9.0000e-005		3.6700e-003	3.6700e-003		3.5300e-003	3.5300e-003	0.0000	6.6456	6.6456	1.3900e-003	0.0000	6.6803
<b>Total</b>	<b>0.0104</b>	<b>0.0585</b>	<b>0.0610</b>	<b>9.0000e-005</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>6.6456</b>	<b>6.6456</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.6803</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5500e-003	0.0445	0.0119	1.1000e-004	2.4100e-003	2.2000e-004	2.6300e-003	7.0000e-004	2.1000e-004	9.1000e-004	0.0000	10.2224	10.2224	4.7000e-004	0.0000	10.2341
Worker	5.1200e-003	3.6800e-003	0.0386	1.2000e-004	0.0113	8.0000e-005	0.0114	3.0200e-003	7.0000e-005	3.0900e-003	0.0000	10.4811	10.4811	2.6000e-004	0.0000	10.4875
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0482</b>	<b>0.0504</b>	<b>2.3000e-004</b>	<b>0.0137</b>	<b>3.0000e-004</b>	<b>0.0140</b>	<b>3.7200e-003</b>	<b>2.8000e-004</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>20.7035</b>	<b>20.7035</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>20.7217</b>

**3.9 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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0120</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0500e-003	5.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4706	0.4706	2.0000e-005	0.0000	0.4711
Worker	6.0000e-004	4.3000e-004	4.5000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2243	1.2243	3.0000e-005	0.0000	1.2250
<b>Total</b>	<b>6.7000e-004</b>	<b>2.4800e-003</b>	<b>5.0500e-003</b>	<b>1.0000e-005</b>	<b>1.5500e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>4.1000e-004</b>	<b>2.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.6949</b>	<b>1.6949</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6962</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0120</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0500e-003	5.5000e-004	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4706	0.4706	2.0000e-005	0.0000	0.4711
Worker	6.0000e-004	4.3000e-004	4.5000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2243	1.2243	3.0000e-005	0.0000	1.2250
<b>Total</b>	<b>6.7000e-004</b>	<b>2.4800e-003</b>	<b>5.0500e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>2.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>2.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.6949</b>	<b>1.6949</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6962</b>

**3.10 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>1.1317</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0200e-003	2.7000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2353	0.2353	1.0000e-005	0.0000	0.2356
Worker	3.9000e-004	2.8000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7958	0.7958	2.0000e-005	0.0000	0.7963
<b>Total</b>	<b>4.3000e-004</b>	<b>1.3000e-003</b>	<b>3.2000e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.0311</b>	<b>1.0311</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0318</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>1.1317</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0200e-003	2.7000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2353	0.2353	1.0000e-005	0.0000	0.2356
Worker	3.9000e-004	2.8000e-004	2.9300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.7958	0.7958	2.0000e-005	0.0000	0.7963
<b>Total</b>	<b>4.3000e-004</b>	<b>1.3000e-003</b>	<b>3.2000e-003</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.0311</b>	<b>1.0311</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0318</b>

## 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	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347
Unmitigated	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347



#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Congregate Care (Assisted Living)	98.64	79.20	87.84	217,842	217,842
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	658.72	640.32	460.00	1,012,214	1,012,214
General Office Building	28.46	6.35	2.71	51,667	51,667
Health Club	103.40	65.53	83.93	164,490	164,490
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Retirement Community	60.00	50.75	48.75	131,813	131,813
<b>Total</b>	<b>949.22</b>	<b>842.15</b>	<b>683.23</b>	<b>1,578,026</b>	<b>1,578,026</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive Thru	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Retirement Community	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Enclosed Parking with Elevator	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Fast Food Restaurant w/o Drive Thru	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
General Office Building	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Health Club	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Other Asphalt Surfaces	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Other Non-Asphalt Surfaces	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Parking Lot	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Retirement Community	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691

#### 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	168.3600	168.3600	7.6100e-003	1.5800e-003	169.0197
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	168.3600	168.3600	7.6100e-003	1.5800e-003	169.0197
NaturalGas Mitigated	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9627	55.9627	1.0700e-003	1.0300e-003	56.2953
NaturalGas Unmitigated	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9627	55.9627	1.0700e-003	1.0300e-003	56.2953

## 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					
Congregate Care (Assisted Living)	398487	2.1500e-003	0.0184	7.8100e-003	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2648	21.2648	4.1000e-004	3.9000e-004	21.3911
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	191526	1.0300e-003	9.3900e-003	7.8900e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2205	10.2205	2.0000e-004	1.9000e-004	10.2813
General Office Building	42506.8	2.3000e-004	2.0800e-003	1.7500e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2683	2.2683	4.0000e-005	4.0000e-005	2.2818
Health Club	83200.2	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4399	4.4399	9.0000e-005	8.0000e-005	4.4663
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	332982	1.8000e-003	0.0153	6.5300e-003	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7692	17.7692	3.4000e-004	3.3000e-004	17.8748
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0493</b>	<b>0.0274</b>	<b>3.1000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>	<b>0.0000</b>	<b>55.9627</b>	<b>55.9627</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.2952</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	398487	2.1500e-003	0.0184	7.8100e-003	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2648	21.2648	4.1000e-004	3.9000e-004	21.3911
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	191526	1.0300e-003	9.3900e-003	7.8900e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2205	10.2205	2.0000e-004	1.9000e-004	10.2813
General Office Building	42506.8	2.3000e-004	2.0800e-003	1.7500e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2683	2.2683	4.0000e-005	4.0000e-005	2.2818
Health Club	83200.2	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4399	4.4399	9.0000e-005	8.0000e-005	4.4663
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	332982	1.8000e-003	0.0153	6.5300e-003	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7692	17.7692	3.4000e-004	3.3000e-004	17.8748
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0493</b>	<b>0.0274</b>	<b>3.1000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>	<b>0.0000</b>	<b>55.9627</b>	<b>55.9627</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.2952</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	158795	46.1953	2.0900e-003	4.3000e-004	46.3763
Enclosed Parking with Elevator	187439	54.5283	2.4700e-003	5.1000e-004	54.7419
Fast Food Restaurant w/o Drive Thru	30470.4	8.8642	4.0000e-004	8.0000e-005	8.8989
General Office Building	47080.5	13.6963	6.2000e-004	1.3000e-004	13.7499
Health Club	26455.6	7.6963	3.5000e-004	7.0000e-005	7.7264
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7224.8	2.1018	1.0000e-004	2.0000e-005	2.1100
Retirement Community	121267	35.2780	1.6000e-003	3.3000e-004	35.4162
<b>Total</b>		<b>168.3600</b>	<b>7.6300e-003</b>	<b>1.5700e-003</b>	<b>169.0197</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	158795	46.1953	2.0900e-003	4.3000e-004	46.3763
Enclosed Parking with Elevator	187439	54.5283	2.4700e-003	5.1000e-004	54.7419
Fast Food Restaurant w/o Drive Thru	30470.4	8.8642	4.0000e-004	8.0000e-005	8.8989
General Office Building	47080.5	13.6963	6.2000e-004	1.3000e-004	13.7499
Health Club	26455.6	7.6963	3.5000e-004	7.0000e-005	7.7264
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7224.8	2.1018	1.0000e-004	2.0000e-005	2.1100
Retirement Community	121267	35.2780	1.6000e-003	3.3000e-004	35.4162
<b>Total</b>		<b>168.3600</b>	<b>7.6300e-003</b>	<b>1.5700e-003</b>	<b>169.0197</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489
Unmitigated	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489

### 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	0.1143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6357					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0137	5.2200e-003	0.4535	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7418	0.7418	7.1000e-004	0.0000	0.7596
<b>Total</b>	<b>0.9044</b>	<b>8.4600e-003</b>	<b>0.6473</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8840</b>	<b>4.6650</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8489</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6357					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0137	5.2200e-003	0.4535	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7418	0.7418	7.1000e-004	0.0000	0.7596
<b>Total</b>	<b>0.9044</b>	<b>8.4600e-003</b>	<b>0.6473</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8840</b>	<b>4.6650</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8489</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.2352	0.1601	3.8700e-003	17.3900
Unmitigated	12.2352	0.1601	3.8700e-003	17.3900



## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	2.34554 / 1.47871	5.9419	0.0767	1.8500e-003	8.4108
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.279251 / 0.0178245	0.5463	9.1200e-003	2.2000e-004	0.8396
General Office Building	0.458553 / 0.281049	1.1535	0.0150	3.6000e-004	1.6361
Health Club	0.185709 / 0.113822	0.4671	6.0700e-003	1.5000e-004	0.6626
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.62885 / 1.02688	4.1263	0.0532	1.2900e-003	5.8408
<b>Total</b>		<b>12.2352</b>	<b>0.1601</b>	<b>3.8700e-003</b>	<b>17.3900</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	2.34554 / 1.47871	5.9419	0.0767	1.8500e-003	8.4108
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.279251 / 0.0178245	0.5463	9.1200e-003	2.2000e-004	0.8396
General Office Building	0.458553 / 0.281049	1.1535	0.0150	3.6000e-004	1.6361
Health Club	0.185709 / 0.113822	0.4671	6.0700e-003	1.5000e-004	0.6626
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.62885 / 1.02688	4.1263	0.0532	1.2900e-003	5.8408
<b>Total</b>		<b>12.2352</b>	<b>0.1601</b>	<b>3.8700e-003</b>	<b>17.3900</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.2751	0.9027	0.0000	37.8433
Unmitigated	15.2751	0.9027	0.0000	37.8433

# 8.2 Waste by Land Use

## Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	10.6	2.1517	0.1272	0.0000	5.3308
General Office Building	2.4	0.4872	0.0288	0.0000	1.2070
Health Club	17.9	3.6335	0.2147	0.0000	9.0019
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>15.2751</b>	<b>0.9027</b>	<b>0.0000</b>	<b>37.8433</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	10.6	2.1517	0.1272	0.0000	5.3308
General Office Building	2.4	0.4872	0.0288	0.0000	1.2070
Health Club	17.9	3.6335	0.2147	0.0000	9.0019
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>15.2751</b>	<b>0.9027</b>	<b>0.0000</b>	<b>37.8433</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Forum Construction Phase 1 - Santa Clara County, Annual

**Forum Mitigated Construction Phase 1  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.58	1000sqft	0.06	2,584.00	0
Enclosed Parking with Elevator	27.81	1000sqft	0.64	27,810.00	0
Other Asphalt Surfaces	35.50	1000sqft	0.81	35,500.00	0
Other Non-Asphalt Surfaces	28.42	1000sqft	0.65	28,420.00	0
Parking Lot	8.21	1000sqft	0.19	8,210.00	0
Fast Food Restaurant w/o Drive Thru	0.92	1000sqft	0.02	920.00	0
Health Club	3.14	1000sqft	0.07	3,142.00	0
Congregate Care (Assisted Living)	36.00	Dwelling Unit	2.23	97,296.00	103
Retirement Community	25.00	Dwelling Unit	1.31	57,166.00	72

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - See CalEEMod Assumptions, does not include landscaping

Construction Phase - See CalEEMod Assumptions





tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstructionPhase	PhaseEndDate	7/22/2020	3/4/2020
tblConstructionPhase	PhaseEndDate	2/13/2018	1/26/2018
tblConstructionPhase	PhaseEndDate	6/15/2018	5/30/2018
tblConstructionPhase	PhaseEndDate	10/17/2018	6/13/2018
tblConstructionPhase	PhaseEndDate	8/17/2020	3/4/2020
tblConstructionPhase	PhaseEndDate	2/27/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	8/18/2020	2/8/2020
tblConstructionPhase	PhaseStartDate	10/18/2018	5/31/2018
tblConstructionPhase	PhaseStartDate	9/5/2019	4/18/2019
tblConstructionPhase	PhaseStartDate	1/27/2018	1/11/2018
tblConstructionPhase	PhaseStartDate	2/28/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	6/16/2018	2/10/2018
tblConstructionPhase	PhaseStartDate	7/23/2020	2/8/2020

tblConstructionPhase	PhaseStartDate	2/14/2018	1/27/2018
tblFleetMix	FleetMixLandUseSubType	General Office Building	Congregate Care (Assisted Living)
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	Fast Food Restaurant w/o Drive Thru
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	General Office Building
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Health Club
tblFleetMix	FleetMixLandUseSubType	Fast Food Restaurant w/o Drive Thru	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Health Club	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Congregate Care (Assisted Living)	Parking Lot
tblGrading	AcresOfGrading	0.00	78.00
tblGrading	MaterialExported	0.00	15,300.00
tblLandUse	BuildingSpaceSquareFeet	2,580.00	2,584.00
tblLandUse	BuildingSpaceSquareFeet	3,140.00	3,142.00
tblLandUse	BuildingSpaceSquareFeet	36,000.00	97,296.00
tblLandUse	BuildingSpaceSquareFeet	25,000.00	57,166.00
tblLandUse	LandUseSquareFeet	2,580.00	2,584.00
tblLandUse	LandUseSquareFeet	3,140.00	3,142.00
tblLandUse	LandUseSquareFeet	36,000.00	97,296.00
tblLandUse	LandUseSquareFeet	25,000.00	57,166.00
tblLandUse	LotAcreage	2.25	2.23
tblLandUse	LotAcreage	5.00	1.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblTripsAndVMT	HaulingTripNumber	241.00	445.00
tblTripsAndVMT	HaulingTripNumber	1,913.00	1,700.00
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tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	24.00	16.00
tblTripsAndVMT	VendorTripNumber	24.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	88.00	67.00
tblTripsAndVMT	WorkerTripNumber	88.00	67.00

tblTripsAndVMT	WorkerTripNumber	18.00	13.00
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## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2829	2.7523	1.6037	4.0300e-003	0.4505	0.1165	0.5670	0.1792	0.1089	0.2882	0.0000	367.0741	367.0741	0.0643	0.0000	368.6807
2019	0.1295	0.7782	0.8065	1.9500e-003	0.0837	0.0343	0.1180	0.0226	0.0330	0.0556	0.0000	172.0545	172.0545	0.0166	0.0000	172.4705
2020	1.1618	0.2319	0.2467	5.3000e-004	0.0173	0.0109	0.0282	4.6700e-003	0.0103	0.0149	0.0000	47.1078	47.1078	7.0000e-003	0.0000	47.2829
<b>Maximum</b>	<b>1.1618</b>	<b>2.7523</b>	<b>1.6037</b>	<b>4.0300e-003</b>	<b>0.4505</b>	<b>0.1165</b>	<b>0.5670</b>	<b>0.1792</b>	<b>0.1089</b>	<b>0.2882</b>	<b>0.0000</b>	<b>367.0741</b>	<b>367.0741</b>	<b>0.0643</b>	<b>0.0000</b>	<b>368.6807</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2829	2.7523	1.6037	4.0300e-003	0.2304	0.0352	0.2656	0.0870	0.0339	0.1210	0.0000	367.0739	367.0739	0.0643	0.0000	368.6805
2019	0.1295	0.7782	0.8065	1.9500e-003	0.0774	0.0215	0.0989	0.0210	0.0212	0.0423	0.0000	172.0545	172.0545	0.0166	0.0000	172.4705
2020	1.1618	0.2319	0.2467	5.3000e-004	0.0160	3.7700e-003	0.0198	4.3500e-003	3.6700e-003	8.0200e-003	0.0000	47.1078	47.1078	7.0000e-003	0.0000	47.2829
<b>Maximum</b>	<b>1.1618</b>	<b>2.7523</b>	<b>1.6037</b>	<b>4.0300e-003</b>	<b>0.2304</b>	<b>0.0352</b>	<b>0.2656</b>	<b>0.0870</b>	<b>0.0339</b>	<b>0.1210</b>	<b>0.0000</b>	<b>367.0739</b>	<b>367.0739</b>	<b>0.0643</b>	<b>0.0000</b>	<b>368.6805</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	41.28	62.58	46.11	45.55	61.33	52.25	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.2653	1.2653
2	4-1-2018	6-30-2018	1.2641	1.2641
3	7-1-2018	9-30-2018	0.3392	0.3392
4	10-1-2018	12-31-2018	0.3424	0.3424
5	1-1-2019	3-31-2019	0.3096	0.3096
6	4-1-2019	6-30-2019	0.2117	0.2117
7	7-1-2019	9-30-2019	0.1911	0.1911
8	10-1-2019	12-31-2019	0.1939	0.1939
9	1-1-2020	3-31-2020	1.4343	1.4343
		Highest	1.4343	1.4343

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489
Energy	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	224.3227	224.3227	8.6900e-003	2.6000e-003	225.3149
Mobile	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347
Waste						0.0000	0.0000		0.0000	0.0000	15.2751	0.0000	15.2751	0.9027	0.0000	37.8433
Water						0.0000	0.0000		0.0000	0.0000	1.5539	10.6813	12.2352	0.1601	3.8700e-003	17.3900
<b>Total</b>	<b>1.0655</b>	<b>0.6483</b>	<b>2.2932</b>	<b>6.5900e-003</b>	<b>0.5867</b>	<b>0.0389</b>	<b>0.6256</b>	<b>0.1570</b>	<b>0.0385</b>	<b>0.1956</b>	<b>19.6099</b>	<b>775.7892</b>	<b>795.3991</b>	<b>1.0940</b>	<b>6.6500e-003</b>	<b>824.7319</b>



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Demo Haul	Demolition	1/11/2018	1/26/2018	5	12	
3	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
4	Grading	Grading	2/10/2018	5/30/2018	5	78	
5	Grading Haul	Grading	2/10/2018	6/13/2018	5	88	
6	Building Construction 1a	Building Construction	5/31/2018	4/17/2019	5	230	
7	Building Construction 1b	Building Construction	4/18/2019	3/4/2020	5	230	
8	Paving	Paving	2/8/2020	3/4/2020	5	18	
9	Architectural Coating	Architectural Coating	2/8/2020	3/4/2020	5	18	

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

**Acres of Grading (Grading Phase): 78**

**Acres of Paving: 2.29**

**Residential Indoor: 312,786; Residential Outdoor: 104,262; Non-Residential Indoor: 9,969; Non-Residential Outdoor: 3,323; Striped**

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Excavators	0	8.00	158	0.38
Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction 1a	Cranes	0	7.00	231	0.29
Building Construction 1a	Forklifts	2	2.00	89	0.20
Building Construction 1a	Generator Sets	0	8.00	84	0.74
Building Construction 1a	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction 1a	Welders	2	8.00	46	0.45
Building Construction 1b	Cranes	0	7.00	231	0.29
Building Construction 1b	Forklifts	3	2.00	89	0.20
Building Construction 1b	Generator Sets	0	8.00	84	0.74
Building Construction 1b	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction 1b	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42



Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	445.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	20.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	1,700.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	67.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1a										
Building Construction	4	67.00	17.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1b										
Paving	8	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0198	0.1957	0.1138	2.0000e-004		0.0103	0.0103		9.6700e-003	9.6700e-003	0.0000	17.8935	17.8935	4.3100e-003	0.0000	18.0014
<b>Total</b>	<b>0.0198</b>	<b>0.1957</b>	<b>0.1138</b>	<b>2.0000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.6700e-003</b>	<b>9.6700e-003</b>	<b>0.0000</b>	<b>17.8935</b>	<b>17.8935</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>18.0014</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	5.3600e-003	1.4900e-003	1.0000e-005	2.6000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.0587	1.0587	5.0000e-005	0.0000	1.0601
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>6.2000e-004</b>	<b>5.6700e-003</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>5.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>4.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.7823</b>	<b>1.7823</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7842</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0198	0.1957	0.1138	2.0000e-004		1.5400e-003	1.5400e-003		1.4500e-003	1.4500e-003	0.0000	17.8935	17.8935	4.3100e-003	0.0000	18.0013
<b>Total</b>	<b>0.0198</b>	<b>0.1957</b>	<b>0.1138</b>	<b>2.0000e-004</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>17.8935</b>	<b>17.8935</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>18.0013</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	5.3600e-003	1.4900e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	1.0587	1.0587	5.0000e-005	0.0000	1.0601
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>6.2000e-004</b>	<b>5.6700e-003</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>9.8000e-004</b>	<b>5.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>4.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.7823</b>	<b>1.7823</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7842</b>

### 3.3 Demo Haul - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0261	0.0000	0.0261	3.9500e-003	0.0000	3.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>3.9500e-003</b>	<b>0.0000</b>	<b>3.9500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1300e-003	0.0729	0.0142	1.8000e-004	3.7700e-003	2.9000e-004	4.0600e-003	1.0400e-003	2.8000e-004	1.3200e-003	0.0000	17.3171	17.3171	8.2000e-004	0.0000	17.3375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0729</b>	<b>0.0142</b>	<b>1.8000e-004</b>	<b>3.7700e-003</b>	<b>2.9000e-004</b>	<b>4.0600e-003</b>	<b>1.0400e-003</b>	<b>2.8000e-004</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>17.3171</b>	<b>17.3171</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>17.3375</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	1.6900e-003	0.0000	1.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.0112</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1300e-003	0.0729	0.0142	1.8000e-004	3.5200e-003	2.9000e-004	3.8100e-003	9.7000e-004	2.8000e-004	1.2500e-003	0.0000	17.3171	17.3171	8.2000e-004	0.0000	17.3375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0729</b>	<b>0.0142</b>	<b>1.8000e-004</b>	<b>3.5200e-003</b>	<b>2.9000e-004</b>	<b>3.8100e-003</b>	<b>9.7000e-004</b>	<b>2.8000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>17.3171</b>	<b>17.3171</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>17.3375</b>

### 3.4 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8200e-003	0.1023	0.0569	9.0000e-005		5.8500e-003	5.8500e-003		5.3800e-003	5.3800e-003	0.0000	8.1579	8.1579	2.5400e-003	0.0000	8.2214
<b>Total</b>	<b>9.8200e-003</b>	<b>0.1023</b>	<b>0.0569</b>	<b>9.0000e-005</b>	<b>0.0301</b>	<b>5.8500e-003</b>	<b>0.0360</b>	<b>0.0166</b>	<b>5.3800e-003</b>	<b>0.0219</b>	<b>0.0000</b>	<b>8.1579</b>	<b>8.1579</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>8.2214</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	8.0400e-003	2.2400e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.6000e-004	1.1000e-004	6.0000e-005	1.8000e-004	0.0000	1.5881	1.5881	8.0000e-005	0.0000	1.5902
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>7.3000e-004</b>	<b>8.3500e-003</b>	<b>5.3900e-003</b>	<b>3.0000e-005</b>	<b>1.1800e-003</b>	<b>7.0000e-005</b>	<b>1.2600e-003</b>	<b>3.2000e-004</b>	<b>6.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.3117</b>	<b>2.3117</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.3143</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0129	0.0000	0.0129	7.0800e-003	0.0000	7.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8200e-003	0.1023	0.0569	9.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	8.1579	8.1579	2.5400e-003	0.0000	8.2214
<b>Total</b>	<b>9.8200e-003</b>	<b>0.1023</b>	<b>0.0569</b>	<b>9.0000e-005</b>	<b>0.0129</b>	<b>8.8000e-004</b>	<b>0.0138</b>	<b>7.0800e-003</b>	<b>8.1000e-004</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>8.1579</b>	<b>8.1579</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>8.2214</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	8.0400e-003	2.2400e-003	2.0000e-005	3.7000e-004	6.0000e-005	4.3000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.5881	1.5881	8.0000e-005	0.0000	1.5902
Worker	4.0000e-004	3.1000e-004	3.1500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.7236	0.7236	2.0000e-005	0.0000	0.7241
<b>Total</b>	<b>7.3000e-004</b>	<b>8.3500e-003</b>	<b>5.3900e-003</b>	<b>3.0000e-005</b>	<b>1.1000e-003</b>	<b>7.0000e-005</b>	<b>1.1700e-003</b>	<b>3.1000e-004</b>	<b>6.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>2.3117</b>	<b>2.3117</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.3143</b>

### 3.5 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2762	0.0000	0.2762	0.1336	0.0000	0.1336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1181	1.3716	0.6300	1.3000e-003		0.0623	0.0623		0.0573	0.0573	0.0000	118.3532	118.3532	0.0368	0.0000	119.2743
<b>Total</b>	<b>0.1181</b>	<b>1.3716</b>	<b>0.6300</b>	<b>1.3000e-003</b>	<b>0.2762</b>	<b>0.0623</b>	<b>0.3385</b>	<b>0.1336</b>	<b>0.0573</b>	<b>0.1909</b>	<b>0.0000</b>	<b>118.3532</b>	<b>118.3532</b>	<b>0.0368</b>	<b>0.0000</b>	<b>119.2743</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	0.0418	0.0116	9.0000e-005	2.0500e-003	3.4000e-004	2.3900e-003	5.9000e-004	3.2000e-004	9.1000e-004	0.0000	8.2581	8.2581	4.3000e-004	0.0000	8.2688
Worker	2.3600e-003	1.8100e-003	0.0185	5.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.2330	4.2330	1.3000e-004	0.0000	4.2362
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0436</b>	<b>0.0301</b>	<b>1.4000e-004</b>	<b>6.6900e-003</b>	<b>3.7000e-004</b>	<b>7.0600e-003</b>	<b>1.8200e-003</b>	<b>3.5000e-004</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>12.4911</b>	<b>12.4911</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>12.5050</b>



**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1181	0.0000	0.1181	0.0571	0.0000	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1181	1.3716	0.6300	1.3000e-003		9.3400e-003	9.3400e-003		8.5900e-003	8.5900e-003	0.0000	118.3531	118.3531	0.0368	0.0000	119.2742
<b>Total</b>	<b>0.1181</b>	<b>1.3716</b>	<b>0.6300</b>	<b>1.3000e-003</b>	<b>0.1181</b>	<b>9.3400e-003</b>	<b>0.1274</b>	<b>0.0571</b>	<b>8.5900e-003</b>	<b>0.0657</b>	<b>0.0000</b>	<b>118.3531</b>	<b>118.3531</b>	<b>0.0368</b>	<b>0.0000</b>	<b>119.2742</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	0.0418	0.0116	9.0000e-005	1.9200e-003	3.4000e-004	2.2600e-003	5.6000e-004	3.2000e-004	8.8000e-004	0.0000	8.2581	8.2581	4.3000e-004	0.0000	8.2688
Worker	2.3600e-003	1.8100e-003	0.0185	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1500e-003	3.0000e-005	1.1700e-003	0.0000	4.2330	4.2330	1.3000e-004	0.0000	4.2362
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0436</b>	<b>0.0301</b>	<b>1.4000e-004</b>	<b>6.2000e-003</b>	<b>3.7000e-004</b>	<b>6.5700e-003</b>	<b>1.7100e-003</b>	<b>3.5000e-004</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>12.4911</b>	<b>12.4911</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>12.5050</b>

### 3.6 Grading Haul - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0422	0.0000	0.0422	4.6000e-003	0.0000	4.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0422</b>	<b>0.0000</b>	<b>0.0422</b>	<b>4.6000e-003</b>	<b>0.0000</b>	<b>4.6000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1400e-003	0.2787	0.0542	6.8000e-004	0.0144	1.1100e-003	0.0155	3.9600e-003	1.0700e-003	5.0300e-003	0.0000	66.1550	66.1550	3.1200e-003	0.0000	66.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.1400e-003</b>	<b>0.2787</b>	<b>0.0542</b>	<b>6.8000e-004</b>	<b>0.0144</b>	<b>1.1100e-003</b>	<b>0.0155</b>	<b>3.9600e-003</b>	<b>1.0700e-003</b>	<b>5.0300e-003</b>	<b>0.0000</b>	<b>66.1550</b>	<b>66.1550</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>66.2331</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	1.9700e-003	0.0000	1.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0181</b>	<b>0.0000</b>	<b>0.0181</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1400e-003	0.2787	0.0542	6.8000e-004	0.0134	1.1100e-003	0.0146	3.7200e-003	1.0700e-003	4.7900e-003	0.0000	66.1550	66.1550	3.1200e-003	0.0000	66.2331
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.1400e-003</b>	<b>0.2787</b>	<b>0.0542</b>	<b>6.8000e-004</b>	<b>0.0134</b>	<b>1.1100e-003</b>	<b>0.0146</b>	<b>3.7200e-003</b>	<b>1.0700e-003</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>66.1550</b>	<b>66.1550</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>66.2331</b>

### 3.7 Building Construction 1a - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0922	0.4936	0.4872	6.6000e-004		0.0347	0.0347		0.0333	0.0333	0.0000	53.1274	53.1274	0.0131	0.0000	53.4548
<b>Total</b>	<b>0.0922</b>	<b>0.4936</b>	<b>0.4872</b>	<b>6.6000e-004</b>		<b>0.0347</b>	<b>0.0347</b>		<b>0.0333</b>	<b>0.0333</b>	<b>0.0000</b>	<b>53.1274</b>	<b>53.1274</b>	<b>0.0131</b>	<b>0.0000</b>	<b>53.4548</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1641	0.0457	3.4000e-004	8.0500e-003	1.3200e-003	9.3700e-003	2.3300e-003	1.2600e-003	3.5900e-003	0.0000	32.3971	32.3971	1.6800e-003	0.0000	32.4391
Worker	0.0206	0.0159	0.1616	4.1000e-004	0.0407	2.7000e-004	0.0409	0.0108	2.5000e-004	0.0111	0.0000	37.0879	37.0879	1.1100e-003	0.0000	37.1157
<b>Total</b>	<b>0.0273</b>	<b>0.1799</b>	<b>0.2073</b>	<b>7.5000e-004</b>	<b>0.0487</b>	<b>1.5900e-003</b>	<b>0.0503</b>	<b>0.0131</b>	<b>1.5100e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>69.4849</b>	<b>69.4849</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>69.5548</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0922	0.4936	0.4872	6.6000e-004		0.0200	0.0200		0.0198	0.0198	0.0000	53.1273	53.1273	0.0131	0.0000	53.4548
<b>Total</b>	<b>0.0922</b>	<b>0.4936</b>	<b>0.4872</b>	<b>6.6000e-004</b>		<b>0.0200</b>	<b>0.0200</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>53.1273</b>	<b>53.1273</b>	<b>0.0131</b>	<b>0.0000</b>	<b>53.4548</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.1641	0.0457	3.4000e-004	7.5400e-003	1.3200e-003	8.8600e-003	2.2000e-003	1.2600e-003	3.4600e-003	0.0000	32.3971	32.3971	1.6800e-003	0.0000	32.4391
Worker	0.0206	0.0159	0.1616	4.1000e-004	0.0375	2.7000e-004	0.0378	0.0100	2.5000e-004	0.0103	0.0000	37.0879	37.0879	1.1100e-003	0.0000	37.1157
<b>Total</b>	<b>0.0273</b>	<b>0.1799</b>	<b>0.2073</b>	<b>7.5000e-004</b>	<b>0.0450</b>	<b>1.5900e-003</b>	<b>0.0466</b>	<b>0.0122</b>	<b>1.5100e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>69.4849</b>	<b>69.4849</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>69.5548</b>

### 3.7 Building Construction 1a - 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					
Off-Road	0.0406	0.2313	0.2397	3.3000e-004		0.0151	0.0151		0.0145	0.0145	0.0000	26.5343	26.5343	6.2300e-003	0.0000	26.6901
<b>Total</b>	<b>0.0406</b>	<b>0.2313</b>	<b>0.2397</b>	<b>3.3000e-004</b>		<b>0.0151</b>	<b>0.0151</b>		<b>0.0145</b>	<b>0.0145</b>	<b>0.0000</b>	<b>26.5343</b>	<b>26.5343</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>26.6901</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.0778	0.0209	1.7000e-004	4.0500e-003	5.6000e-004	4.6100e-003	1.1700e-003	5.3000e-004	1.7100e-003	0.0000	16.2040	16.2040	8.0000e-004	0.0000	16.2241
Worker	9.3700e-003	6.9800e-003	0.0721	2.0000e-004	0.0205	1.4000e-004	0.0206	5.4400e-003	1.2000e-004	5.5700e-003	0.0000	18.1102	18.1102	4.9000e-004	0.0000	18.1226
<b>Total</b>	<b>0.0124</b>	<b>0.0848</b>	<b>0.0929</b>	<b>3.7000e-004</b>	<b>0.0245</b>	<b>7.0000e-004</b>	<b>0.0252</b>	<b>6.6100e-003</b>	<b>6.5000e-004</b>	<b>7.2800e-003</b>	<b>0.0000</b>	<b>34.3142</b>	<b>34.3142</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>34.3467</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0406	0.2313	0.2397	3.3000e-004		8.7800e-003	8.7800e-003		8.6900e-003	8.6900e-003	0.0000	26.5342	26.5342	6.2300e-003	0.0000	26.6900
<b>Total</b>	<b>0.0406</b>	<b>0.2313</b>	<b>0.2397</b>	<b>3.3000e-004</b>		<b>8.7800e-003</b>	<b>8.7800e-003</b>		<b>8.6900e-003</b>	<b>8.6900e-003</b>	<b>0.0000</b>	<b>26.5342</b>	<b>26.5342</b>	<b>6.2300e-003</b>	<b>0.0000</b>	<b>26.6900</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0200e-003	0.0778	0.0209	1.7000e-004	3.8000e-003	5.6000e-004	4.3500e-003	1.1100e-003	5.3000e-004	1.6400e-003	0.0000	16.2040	16.2040	8.0000e-004	0.0000	16.2241
Worker	9.3700e-003	6.9800e-003	0.0721	2.0000e-004	0.0189	1.4000e-004	0.0190	5.0500e-003	1.2000e-004	5.1700e-003	0.0000	18.1102	18.1102	4.9000e-004	0.0000	18.1226
<b>Total</b>	<b>0.0124</b>	<b>0.0848</b>	<b>0.0929</b>	<b>3.7000e-004</b>	<b>0.0227</b>	<b>7.0000e-004</b>	<b>0.0234</b>	<b>6.1600e-003</b>	<b>6.5000e-004</b>	<b>6.8100e-003</b>	<b>0.0000</b>	<b>34.3142</b>	<b>34.3142</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>34.3467</b>

### 3.8 Building Construction 1b - 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					
Off-Road	0.0465	0.2480	0.2487	3.4000e-004		0.0168	0.0168		0.0162	0.0162	0.0000	26.7883	26.7883	5.8900e-003	0.0000	26.9356
<b>Total</b>	<b>0.0465</b>	<b>0.2480</b>	<b>0.2487</b>	<b>3.4000e-004</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>26.7883</b>	<b>26.7883</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>26.9356</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6700e-003	0.1975	0.0530	4.3000e-004	0.0103	1.4200e-003	0.0117	2.9700e-003	1.3600e-003	4.3300e-003	0.0000	41.1413	41.1413	2.0400e-003	0.0000	41.1923
Worker	0.0224	0.0167	0.1722	4.8000e-004	0.0489	3.2000e-004	0.0492	0.0130	3.0000e-004	0.0133	0.0000	43.2764	43.2764	1.1800e-003	0.0000	43.3059
<b>Total</b>	<b>0.0301</b>	<b>0.2142</b>	<b>0.2252</b>	<b>9.1000e-004</b>	<b>0.0592</b>	<b>1.7400e-003</b>	<b>0.0609</b>	<b>0.0160</b>	<b>1.6600e-003</b>	<b>0.0176</b>	<b>0.0000</b>	<b>84.4177</b>	<b>84.4177</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>84.4982</b>



**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.2480	0.2487	3.4000e-004		0.0103	0.0103		0.0102	0.0102	0.0000	26.7883	26.7883	5.8900e-003	0.0000	26.9356
<b>Total</b>	<b>0.0465</b>	<b>0.2480</b>	<b>0.2487</b>	<b>3.4000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0102</b>	<b>0.0102</b>	<b>0.0000</b>	<b>26.7883</b>	<b>26.7883</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>26.9356</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6700e-003	0.1975	0.0530	4.3000e-004	9.6400e-003	1.4200e-003	0.0111	2.8100e-003	1.3600e-003	4.1700e-003	0.0000	41.1413	41.1413	2.0400e-003	0.0000	41.1923
Worker	0.0224	0.0167	0.1722	4.8000e-004	0.0451	3.2000e-004	0.0454	0.0121	3.0000e-004	0.0124	0.0000	43.2764	43.2764	1.1800e-003	0.0000	43.3059
<b>Total</b>	<b>0.0301</b>	<b>0.2142</b>	<b>0.2252</b>	<b>9.1000e-004</b>	<b>0.0547</b>	<b>1.7400e-003</b>	<b>0.0565</b>	<b>0.0149</b>	<b>1.6600e-003</b>	<b>0.0165</b>	<b>0.0000</b>	<b>84.4177</b>	<b>84.4177</b>	<b>3.2200e-003</b>	<b>0.0000</b>	<b>84.4982</b>

### 3.8 Building Construction 1b - 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	0.0104	0.0585	0.0610	9.0000e-005		3.6700e-003	3.6700e-003		3.5300e-003	3.5300e-003	0.0000	6.6456	6.6456	1.3900e-003	0.0000	6.6803
<b>Total</b>	<b>0.0104</b>	<b>0.0585</b>	<b>0.0610</b>	<b>9.0000e-005</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>	<b>0.0000</b>	<b>6.6456</b>	<b>6.6456</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.6803</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5500e-003	0.0445	0.0119	1.1000e-004	2.5700e-003	2.2000e-004	2.7900e-003	7.4000e-004	2.1000e-004	9.5000e-004	0.0000	10.2224	10.2224	4.7000e-004	0.0000	10.2341
Worker	5.1200e-003	3.6800e-003	0.0386	1.2000e-004	0.0122	8.0000e-005	0.0123	3.2500e-003	7.0000e-005	3.3200e-003	0.0000	10.4811	10.4811	2.6000e-004	0.0000	10.4875
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0482</b>	<b>0.0504</b>	<b>2.3000e-004</b>	<b>0.0148</b>	<b>3.0000e-004</b>	<b>0.0151</b>	<b>3.9900e-003</b>	<b>2.8000e-004</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>20.7035</b>	<b>20.7035</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>20.7217</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.0585	0.0610	9.0000e-005		2.2500e-003	2.2500e-003		2.2300e-003	2.2300e-003	0.0000	6.6456	6.6456	1.3900e-003	0.0000	6.6803
<b>Total</b>	<b>0.0104</b>	<b>0.0585</b>	<b>0.0610</b>	<b>9.0000e-005</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>		<b>2.2300e-003</b>	<b>2.2300e-003</b>	<b>0.0000</b>	<b>6.6456</b>	<b>6.6456</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.6803</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5500e-003	0.0445	0.0119	1.1000e-004	2.4100e-003	2.2000e-004	2.6300e-003	7.0000e-004	2.1000e-004	9.1000e-004	0.0000	10.2224	10.2224	4.7000e-004	0.0000	10.2341
Worker	5.1200e-003	3.6800e-003	0.0386	1.2000e-004	0.0113	8.0000e-005	0.0114	3.0200e-003	7.0000e-005	3.0900e-003	0.0000	10.4811	10.4811	2.6000e-004	0.0000	10.4875
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0482</b>	<b>0.0504</b>	<b>2.3000e-004</b>	<b>0.0137</b>	<b>3.0000e-004</b>	<b>0.0140</b>	<b>3.7200e-003</b>	<b>2.8000e-004</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>20.7035</b>	<b>20.7035</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>20.7217</b>

### 3.9 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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0120</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0500e-003	5.5000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4706	0.4706	2.0000e-005	0.0000	0.4711
Worker	6.0000e-004	4.3000e-004	4.5000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2243	1.2243	3.0000e-005	0.0000	1.2250
<b>Total</b>	<b>6.7000e-004</b>	<b>2.4800e-003</b>	<b>5.0500e-003</b>	<b>1.0000e-005</b>	<b>1.5500e-003</b>	<b>2.0000e-005</b>	<b>1.5700e-003</b>	<b>4.1000e-004</b>	<b>2.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.6949</b>	<b>1.6949</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6962</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.1062	0.1105	1.7000e-004		1.0400e-003	1.0400e-003		9.7000e-004	9.7000e-004	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0120</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>9.7000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0500e-003	5.5000e-004	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4706	0.4706	2.0000e-005	0.0000	0.4711
Worker	6.0000e-004	4.3000e-004	4.5000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2243	1.2243	3.0000e-005	0.0000	1.2250
<b>Total</b>	<b>6.7000e-004</b>	<b>2.4800e-003</b>	<b>5.0500e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>2.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>2.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.6949</b>	<b>1.6949</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6962</b>

### 3.10 Architectural Coating - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>1.1317</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0200e-003	2.7000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2353	0.2353	1.0000e-005	0.0000	0.2356
Worker	3.9000e-004	2.8000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7958	0.7958	2.0000e-005	0.0000	0.7963
<b>Total</b>	<b>4.3000e-004</b>	<b>1.3000e-003</b>	<b>3.2000e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.0311</b>	<b>1.0311</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0318</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1295					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>1.1317</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0200e-003	2.7000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2353	0.2353	1.0000e-005	0.0000	0.2356
Worker	3.9000e-004	2.8000e-004	2.9300e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.7958	0.7958	2.0000e-005	0.0000	0.7963
<b>Total</b>	<b>4.3000e-004</b>	<b>1.3000e-003</b>	<b>3.2000e-003</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.0311</b>	<b>1.0311</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0318</b>

## 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	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347
Unmitigated	0.1555	0.5906	1.6185	5.8700e-003	0.5867	4.7200e-003	0.5914	0.1570	4.3800e-003	0.1614	0.0000	538.9012	538.9012	0.0173	0.0000	539.3347

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	98.64	79.20	87.84	217,842	217,842
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	658.72	640.32	460.00	1,012,214	1,012,214
General Office Building	28.46	6.35	2.71	51,667	51,667
Health Club	103.40	65.53	83.93	164,490	164,490
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Retirement Community	60.00	50.75	48.75	131,813	131,813
<b>Total</b>	<b>949.22</b>	<b>842.15</b>	<b>683.23</b>	<b>1,578,026</b>	<b>1,578,026</b>



### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive Thru	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Retirement Community	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Enclosed Parking with Elevator	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Fast Food Restaurant w/o Drive Thru	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
General Office Building	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Health Club	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Other Asphalt Surfaces	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Other Non-Asphalt Surfaces	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Parking Lot	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691
Retirement Community	0.616749	0.035330	0.181430	0.103378	0.013121	0.005016	0.012828	0.021913	0.002183	0.001508	0.005219	0.000634	0.000691

## 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	168.3600	168.3600	7.6100e-003	1.5800e-003	169.0197
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	168.3600	168.3600	7.6100e-003	1.5800e-003	169.0197
NaturalGas Mitigated	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9627	55.9627	1.0700e-003	1.0300e-003	56.2953
NaturalGas Unmitigated	5.6500e-003	0.0493	0.0274	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9627	55.9627	1.0700e-003	1.0300e-003	56.2953

## 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					
Congregate Care (Assisted Living)	398487	2.1500e-003	0.0184	7.8100e-003	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2648	21.2648	4.1000e-004	3.9000e-004	21.3911
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	191526	1.0300e-003	9.3900e-003	7.8900e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2205	10.2205	2.0000e-004	1.9000e-004	10.2813
General Office Building	42506.8	2.3000e-004	2.0800e-003	1.7500e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2683	2.2683	4.0000e-005	4.0000e-005	2.2818
Health Club	83200.2	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4399	4.4399	9.0000e-005	8.0000e-005	4.4663
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	332982	1.8000e-003	0.0153	6.5300e-003	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7692	17.7692	3.4000e-004	3.3000e-004	17.8748
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0493</b>	<b>0.0274</b>	<b>3.1000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>	<b>0.0000</b>	<b>55.9627</b>	<b>55.9627</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.2952</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	398487	2.1500e-003	0.0184	7.8100e-003	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2648	21.2648	4.1000e-004	3.9000e-004	21.3911
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	191526	1.0300e-003	9.3900e-003	7.8900e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2205	10.2205	2.0000e-004	1.9000e-004	10.2813
General Office Building	42506.8	2.3000e-004	2.0800e-003	1.7500e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2683	2.2683	4.0000e-005	4.0000e-005	2.2818
Health Club	83200.2	4.5000e-004	4.0800e-003	3.4300e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4399	4.4399	9.0000e-005	8.0000e-005	4.4663
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	332982	1.8000e-003	0.0153	6.5300e-003	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7692	17.7692	3.4000e-004	3.3000e-004	17.8748
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0493</b>	<b>0.0274</b>	<b>3.1000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>	<b>0.0000</b>	<b>55.9627</b>	<b>55.9627</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.2952</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	158795	46.1953	2.0900e-003	4.3000e-004	46.3763
Enclosed Parking with Elevator	187439	54.5283	2.4700e-003	5.1000e-004	54.7419
Fast Food Restaurant w/o Drive Thru	30470.4	8.8642	4.0000e-004	8.0000e-005	8.8989
General Office Building	47080.5	13.6963	6.2000e-004	1.3000e-004	13.7499
Health Club	26455.6	7.6963	3.5000e-004	7.0000e-005	7.7264
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7224.8	2.1018	1.0000e-004	2.0000e-005	2.1100
Retirement Community	121267	35.2780	1.6000e-003	3.3000e-004	35.4162
<b>Total</b>		<b>168.3600</b>	<b>7.6300e-003</b>	<b>1.5700e-003</b>	<b>169.0197</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	158795	46.1953	2.0900e-003	4.3000e-004	46.3763
Enclosed Parking with Elevator	187439	54.5283	2.4700e-003	5.1000e-004	54.7419
Fast Food Restaurant w/o Drive-Thru	30470.4	8.8642	4.0000e-004	8.0000e-005	8.8989
General Office Building	47080.5	13.6963	6.2000e-004	1.3000e-004	13.7499
Health Club	26455.6	7.6963	3.5000e-004	7.0000e-005	7.7264
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7224.8	2.1018	1.0000e-004	2.0000e-005	2.1100
Retirement Community	121267	35.2780	1.6000e-003	3.3000e-004	35.4162
<b>Total</b>		<b>168.3600</b>	<b>7.6300e-003</b>	<b>1.5700e-003</b>	<b>169.0197</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489
Unmitigated	0.9044	8.4600e-003	0.6473	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8840	4.6650	5.1800e-003	1.8000e-004	4.8489

### 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	0.1143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6357					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0137	5.2200e-003	0.4535	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7418	0.7418	7.1000e-004	0.0000	0.7596
<b>Total</b>	<b>0.9044</b>	<b>8.4600e-003</b>	<b>0.6473</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8840</b>	<b>4.6650</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8489</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6357					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0137	5.2200e-003	0.4535	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7418	0.7418	7.1000e-004	0.0000	0.7596
<b>Total</b>	<b>0.9044</b>	<b>8.4600e-003</b>	<b>0.6473</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8840</b>	<b>4.6650</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8489</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.2352	0.1601	3.8700e-003	17.3900
Unmitigated	12.2352	0.1601	3.8700e-003	17.3900



## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	2.34554 / 1.47871	5.9419	0.0767	1.8500e-003	8.4108
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.279251 / 0.0178245	0.5463	9.1200e-003	2.2000e-004	0.8396
General Office Building	0.458553 / 0.281049	1.1535	0.0150	3.6000e-004	1.6361
Health Club	0.185709 / 0.113822	0.4671	6.0700e-003	1.5000e-004	0.6626
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.62885 / 1.02688	4.1263	0.0532	1.2900e-003	5.8408
<b>Total</b>		<b>12.2352</b>	<b>0.1601</b>	<b>3.8700e-003</b>	<b>17.3900</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	2.34554 / 1.47871	5.9419	0.0767	1.8500e-003	8.4108
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.279251 / 0.0178245	0.5463	9.1200e-003	2.2000e-004	0.8396
General Office Building	0.458553 / 0.281049	1.1535	0.0150	3.6000e-004	1.6361
Health Club	0.185709 / 0.113822	0.4671	6.0700e-003	1.5000e-004	0.6626
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.62885 / 1.02688	4.1263	0.0532	1.2900e-003	5.8408
<b>Total</b>		<b>12.2352</b>	<b>0.1601</b>	<b>3.8700e-003</b>	<b>17.3900</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.2751	0.9027	0.0000	37.8433
Unmitigated	15.2751	0.9027	0.0000	37.8433

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive-Thru	10.6	2.1517	0.1272	0.0000	5.3308
General Office Building	2.4	0.4872	0.0288	0.0000	1.2070
Health Club	17.9	3.6335	0.2147	0.0000	9.0019
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>15.2751</b>	<b>0.9027</b>	<b>0.0000</b>	<b>37.8433</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	10.6	2.1517	0.1272	0.0000	5.3308
General Office Building	2.4	0.4872	0.0288	0.0000	1.2070
Health Club	17.9	3.6335	0.2147	0.0000	9.0019
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>15.2751</b>	<b>0.9027</b>	<b>0.0000</b>	<b>37.8433</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Forum Construction Phase II - Santa Clara County, Annual

**Forum Construction Phase II -- Unmitigated  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Retirement Community	17.00	Dwelling Unit	0.39	17,000.00	49

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use - Can't select a size metric other than DU

Construction Phase - CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - BAAQMD BMPs

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	PhaseEndDate	7/3/2020	8/27/2020
tblConstructionPhase	PhaseEndDate	6/19/2020	8/27/2020
tblConstructionPhase	PhaseEndDate	1/28/2020	3/28/2020
tblConstructionPhase	PhaseEndDate	1/31/2020	4/9/2020
tblConstructionPhase	PhaseEndDate	6/26/2020	8/27/2020
tblConstructionPhase	PhaseEndDate	1/29/2020	3/30/2020
tblConstructionPhase	PhaseStartDate	6/27/2020	8/21/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	4/10/2020
tblConstructionPhase	PhaseStartDate	1/15/2020	3/15/2020
tblConstructionPhase	PhaseStartDate	1/30/2020	3/31/2020
tblConstructionPhase	PhaseStartDate	6/20/2020	8/21/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	3/29/2020
tblLandUse	LotAcreage	3.40	0.39
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00



## 2.0 Emissions Summary

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### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1759	0.5574	0.4789	8.2000e-004	0.0103	0.0315	0.0417	3.5700e-003	0.0291	0.0327	0.0000	71.9814	71.9814	0.0189	0.0000	72.4538
<b>Maximum</b>	<b>0.1759</b>	<b>0.5574</b>	<b>0.4789</b>	<b>8.2000e-004</b>	<b>0.0103</b>	<b>0.0315</b>	<b>0.0417</b>	<b>3.5700e-003</b>	<b>0.0291</b>	<b>0.0327</b>	<b>0.0000</b>	<b>71.9814</b>	<b>71.9814</b>	<b>0.0189</b>	<b>0.0000</b>	<b>72.4538</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1759	0.5574	0.4789	8.2000e-004	7.8700e-003	0.0315	0.0393	2.4800e-003	0.0291	0.0316	0.0000	71.9813	71.9813	0.0189	0.0000	72.4537
<b>Maximum</b>	<b>0.1759</b>	<b>0.5574</b>	<b>0.4789</b>	<b>8.2000e-004</b>	<b>7.8700e-003</b>	<b>0.0315</b>	<b>0.0393</b>	<b>2.4800e-003</b>	<b>0.0291</b>	<b>0.0316</b>	<b>0.0000</b>	<b>71.9813</b>	<b>71.9813</b>	<b>0.0189</b>	<b>0.0000</b>	<b>72.4537</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>23.37</b>	<b>0.00</b>	<b>5.75</b>	<b>30.53</b>	<b>0.00</b>	<b>3.36</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-15-2020	4-14-2020	0.1041	0.1041
2	4-15-2020	7-14-2020	0.3255	0.3255
3	7-15-2020	9-30-2020	0.3021	0.3021
		Highest	0.3255	0.3255

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Energy	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	36.0721	36.0721	1.3200e-003	4.5000e-004	36.2379
Mobile	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Waste						0.0000	0.0000		0.0000	0.0000	1.5874	0.0000	1.5874	0.0938	0.0000	3.9327
Water						0.0000	0.0000		0.0000	0.0000	0.3514	2.4545	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>	<b>0.1323</b>	<b>0.0533</b>	<b>0.2982</b>	<b>5.5000e-004</b>	<b>0.0333</b>	<b>9.5800e-003</b>	<b>0.0429</b>	<b>8.9200e-003</b>	<b>9.5600e-003</b>	<b>0.0185</b>	<b>2.7138</b>	<b>73.1458</b>	<b>75.8597</b>	<b>0.1340</b>	<b>1.3800e-003</b>	<b>79.6177</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Energy	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	36.0721	36.0721	1.3200e-003	4.5000e-004	36.2379
Mobile	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Waste						0.0000	0.0000		0.0000	0.0000	1.5874	0.0000	1.5874	0.0938	0.0000	3.9327
Water						0.0000	0.0000		0.0000	0.0000	0.3514	2.4545	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>	<b>0.1323</b>	<b>0.0533</b>	<b>0.2982</b>	<b>5.5000e-004</b>	<b>0.0333</b>	<b>9.5800e-003</b>	<b>0.0429</b>	<b>8.9200e-003</b>	<b>9.5600e-003</b>	<b>0.0185</b>	<b>2.7138</b>	<b>73.1458</b>	<b>75.8597</b>	<b>0.1340</b>	<b>1.3800e-003</b>	<b>79.6177</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/15/2020	3/28/2020	5	10	
2	Site Preparation	Site Preparation	3/29/2020	3/30/2020	5	1	
3	Grading	Grading	3/31/2020	4/9/2020	5	8	
4	Building Construction	Building Construction	4/10/2020	8/27/2020	5	100	
5	Paving	Paving	8/21/2020	8/27/2020	5	5	
6	Architectural Coating	Architectural Coating	8/21/2020	8/27/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 34,425; Residential Outdoor: 11,475; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

**OffRoad Equipment**

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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	5.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5500e-003	0.0315	0.0296	5.0000e-005		1.8400e-003	1.8400e-003		1.7700e-003	1.7700e-003	0.0000	4.1806	4.1806	6.5000e-004	0.0000	4.1969
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0315</b>	<b>0.0296</b>	<b>5.0000e-005</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.1806</b>	<b>4.1806</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>4.1969</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	9.1100e-003	2.4300e-003	2.0000e-005	5.3000e-004	5.0000e-005	5.7000e-004	1.5000e-004	4.0000e-005	2.0000e-004	0.0000	2.0915	2.0915	1.0000e-004	0.0000	2.0939
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1700	0.1700	0.0000	0.0000	0.1701
<b>Total</b>	<b>4.0000e-004</b>	<b>9.1700e-003</b>	<b>3.0600e-003</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>5.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>4.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.2641</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5500e-003	0.0315	0.0296	5.0000e-005		1.8400e-003	1.8400e-003		1.7700e-003	1.7700e-003	0.0000	4.1806	4.1806	6.5000e-004	0.0000	4.1969
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0315</b>	<b>0.0296</b>	<b>5.0000e-005</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.1806</b>	<b>4.1806</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>4.1969</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	9.1100e-003	2.4300e-003	2.0000e-005	4.9000e-004	5.0000e-005	5.4000e-004	1.4000e-004	4.0000e-005	1.9000e-004	0.0000	2.0915	2.0915	1.0000e-004	0.0000	2.0939
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1700	0.1700	0.0000	0.0000	0.1701
<b>Total</b>	<b>4.0000e-004</b>	<b>9.1700e-003</b>	<b>3.0600e-003</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>5.0000e-005</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>4.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.2641</b>

### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	5.2700e-003	3.1900e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.2000e-004	2.2000e-004	0.0000	0.5644	0.5644	1.8000e-004	0.0000	0.5690
<b>Total</b>	<b>4.5000e-004</b>	<b>5.2700e-003</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>2.3000e-004</b>	<b>5.0000e-004</b>	<b>3.0000e-005</b>	<b>2.2000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5644</b>	<b>0.5644</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5690</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0523	0.0523	0.0000	0.0000	0.0524
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170
<b>Total</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0693</b>	<b>0.0693</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	5.2700e-003	3.1900e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.2000e-004	2.2000e-004	0.0000	0.5644	0.5644	1.8000e-004	0.0000	0.5690
<b>Total</b>	<b>4.5000e-004</b>	<b>5.2700e-003</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-004</b>	<b>2.3000e-004</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.5644</b>	<b>0.5644</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0523	0.0523	0.0000	0.0000	0.0524
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170
<b>Total</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0693</b>	<b>0.0693</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0694</b>

**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					3.0100e-003	0.0000	3.0100e-003	1.6600e-003	0.0000	1.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4700e-003	0.0315	0.0305	5.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	4.1630	4.1630	7.9000e-004	0.0000	4.1827
<b>Total</b>	<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0305</b>	<b>5.0000e-005</b>	<b>3.0100e-003</b>	<b>1.8700e-003</b>	<b>4.8800e-003</b>	<b>1.6600e-003</b>	<b>1.7800e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>4.1630</b>	<b>4.1630</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.1827</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	4.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4183	0.4183	2.0000e-005	0.0000	0.4188
Worker	1.3000e-004	1.0000e-004	1.0000e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	0.0000	0.2722
<b>Total</b>	<b>1.9000e-004</b>	<b>1.9200e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>1.1000e-004</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.6904</b>	<b>0.6904</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	7.1000e-004	0.0000	7.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4700e-003	0.0315	0.0305	5.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	4.1630	4.1630	7.9000e-004	0.0000	4.1827
<b>Total</b>	<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0305</b>	<b>5.0000e-005</b>	<b>1.2900e-003</b>	<b>1.8700e-003</b>	<b>3.1600e-003</b>	<b>7.1000e-004</b>	<b>1.7800e-003</b>	<b>2.4900e-003</b>	<b>0.0000</b>	<b>4.1630</b>	<b>4.1630</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.1827</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	4.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4183	0.4183	2.0000e-005	0.0000	0.4188
Worker	1.3000e-004	1.0000e-004	1.0000e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	0.0000	0.2722
<b>Total</b>	<b>1.9000e-004</b>	<b>1.9200e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.6904</b>	<b>0.6904</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4348
<b>Total</b>	<b>0.0431</b>	<b>0.4426</b>	<b>0.3694</b>	<b>5.7000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0240</b>	<b>0.0240</b>	<b>0.0000</b>	<b>50.0302</b>	<b>50.0302</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4348</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0114	3.0300e-003	3.0000e-005	6.6000e-004	6.0000e-005	7.1000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.6144	2.6144	1.2000e-004	0.0000	2.6174
Worker	1.9900e-003	1.4300e-003	0.0150	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	4.0809	4.0809	1.0000e-004	0.0000	4.0834
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>8.0000e-005</b>	<b>5.4200e-003</b>	<b>9.0000e-005</b>	<b>5.5000e-003</b>	<b>1.4600e-003</b>	<b>8.0000e-005</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>6.6953</b>	<b>6.6953</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.7008</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4347
<b>Total</b>	<b>0.0431</b>	<b>0.4426</b>	<b>0.3694</b>	<b>5.7000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0240</b>	<b>0.0240</b>	<b>0.0000</b>	<b>50.0302</b>	<b>50.0302</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4347</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0114	3.0300e-003	3.0000e-005	6.2000e-004	6.0000e-005	6.7000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	2.6144	2.6144	1.2000e-004	0.0000	2.6174
Worker	1.9900e-003	1.4300e-003	0.0150	5.0000e-005	4.3900e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	4.0809	4.0809	1.0000e-004	0.0000	4.0834
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>8.0000e-005</b>	<b>5.0100e-003</b>	<b>9.0000e-005</b>	<b>5.0900e-003</b>	<b>1.3500e-003</b>	<b>8.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>6.6953</b>	<b>6.6953</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.7008</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3061	0.3061	1.0000e-005	0.0000	0.3063
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3061</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3063</b>

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3061	0.3061	1.0000e-005	0.0000	0.3063
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3061</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3063</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1197					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.1203</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0340</b>	<b>0.0340</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0340</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1197					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.1203</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0340</b>	<b>0.0340</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0340</b>

## 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	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Unmitigated	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Retirement Community	40.80	34.51	33.15	89,633	89,633
Total	40.80	34.51	33.15	89,633	89,633

#### 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
Retirement Community	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Retirement Community	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

## 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	23.9890	23.9890	1.0800e-003	2.2000e-004	24.0830
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9890	23.9890	1.0800e-003	2.2000e-004	24.0830
NaturalGas Mitigated	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
NaturalGas Unmitigated	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549

### 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					
Retirement Community	226428	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
<b>Total</b>		<b>1.2200e-003</b>	<b>0.0104</b>	<b>4.4400e-003</b>	<b>7.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>12.0831</b>	<b>12.0831</b>	<b>2.3000e-004</b>	<b>2.2000e-004</b>	<b>12.1549</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Retirement Community	226428	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
<b>Total</b>		<b>1.2200e-003</b>	<b>0.0104</b>	<b>4.4400e-003</b>	<b>7.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>12.0831</b>	<b>12.0831</b>	<b>2.3000e-004</b>	<b>2.2000e-004</b>	<b>12.1549</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Retirement Community	82461.6	23.9890	1.0800e-003	2.2000e-004	24.0830
<b>Total</b>		<b>23.9890</b>	<b>1.0800e-003</b>	<b>2.2000e-004</b>	<b>24.0830</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Retirement Community	82461.6	23.9890	1.0800e-003	2.2000e-004	24.0830
<b>Total</b>		<b>23.9890</b>	<b>1.0800e-003</b>	<b>2.2000e-004</b>	<b>24.0830</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Unmitigated	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508

## 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	0.0120						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0664						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0392	9.0000e-004	0.0540	1.1000e-004			7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003	0.7750	0.3183	1.0934	1.2500e-003	5.0000e-005	1.1397
Landscaping	3.8300e-003	1.4600e-003	0.1265	1.0000e-005			7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	0.2062	0.2062	2.0000e-004	0.0000	0.2112
<b>Total</b>	<b>0.1214</b>	<b>2.3600e-003</b>	<b>0.1805</b>	<b>1.2000e-004</b>			<b>8.4200e-003</b>	<b>8.4200e-003</b>		<b>8.4200e-003</b>	<b>8.4200e-003</b>	<b>0.7750</b>	<b>0.5245</b>	<b>1.2996</b>	<b>1.4500e-003</b>	<b>5.0000e-005</b>	<b>1.3508</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0120						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0664						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0392	9.0000e-004	0.0540	1.1000e-004			7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003	0.7750	0.3183	1.0934	1.2500e-003	5.0000e-005	1.1397
Landscaping	3.8300e-003	1.4600e-003	0.1265	1.0000e-005			7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	0.2062	0.2062	2.0000e-004	0.0000	0.2112
<b>Total</b>	<b>0.1214</b>	<b>2.3600e-003</b>	<b>0.1805</b>	<b>1.2000e-004</b>			<b>8.4200e-003</b>	<b>8.4200e-003</b>		<b>8.4200e-003</b>	<b>8.4200e-003</b>	<b>0.7750</b>	<b>0.5245</b>	<b>1.2996</b>	<b>1.4500e-003</b>	<b>5.0000e-005</b>	<b>1.3508</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.8059	0.0362	8.8000e-004	3.9718
Unmitigated	2.8059	0.0362	8.8000e-004	3.9718

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Retirement Community	1.10762 / 0.698281	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>		<b>2.8059</b>	<b>0.0362</b>	<b>8.8000e-004</b>	<b>3.9718</b>



## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Retirement Community	1.10762 / 0.698281	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>		<b>2.8059</b>	<b>0.0362</b>	<b>8.8000e-004</b>	<b>3.9718</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.5874	0.0938	0.0000	3.9327
Unmitigated	1.5874	0.0938	0.0000	3.9327

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Retirement Community	7.82	1.5874	0.0938	0.0000	3.9327
<b>Total</b>		<b>1.5874</b>	<b>0.0938</b>	<b>0.0000</b>	<b>3.9327</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Retirement Community	7.82	1.5874	0.0938	0.0000	3.9327
<b>Total</b>		<b>1.5874</b>	<b>0.0938</b>	<b>0.0000</b>	<b>3.9327</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Forum Construction Phase II - Santa Clara County, Annual

**Forum Mitigated Construction Phase II  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Retirement Community	17.00	Dwelling Unit	0.39	17,000.00	49

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - Can't select a size metric other than DU
- Construction Phase - CalEEMod Assumptions
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - See CalEEMod Assumptions
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - See CalEEMod Assumptions
- Trips and VMT - See CalEEMod Assumptions
- Construction Off-road Equipment Mitigation - BAAQMD BMPs

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstructionPhase	NumDays	2.00	8.00
tblLandUse	LotAcreage	3.40	0.39
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00



Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-15-2020	4-14-2020	0.1041	0.1041
2	4-15-2020	7-14-2020	0.3255	0.3255
3	7-15-2020	9-30-2020	0.3021	0.3021
		Highest	0.3255	0.3255

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Energy	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	36.0721	36.0721	1.3200e-003	4.5000e-004	36.2379
Mobile	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Waste						0.0000	0.0000		0.0000	0.0000	1.5874	0.0000	1.5874	0.0938	0.0000	3.9327
Water						0.0000	0.0000		0.0000	0.0000	0.3514	2.4545	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>	<b>0.1323</b>	<b>0.0533</b>	<b>0.2982</b>	<b>5.5000e-004</b>	<b>0.0333</b>	<b>9.5800e-003</b>	<b>0.0429</b>	<b>8.9200e-003</b>	<b>9.5600e-003</b>	<b>0.0185</b>	<b>2.7138</b>	<b>73.1458</b>	<b>75.8597</b>	<b>0.1340</b>	<b>1.3800e-003</b>	<b>79.6177</b>

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Energy	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	36.0721	36.0721	1.3200e-003	4.5000e-004	36.2379
Mobile	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Waste						0.0000	0.0000		0.0000	0.0000	1.5874	0.0000	1.5874	0.0938	0.0000	3.9327
Water						0.0000	0.0000		0.0000	0.0000	0.3514	2.4545	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>	<b>0.1323</b>	<b>0.0533</b>	<b>0.2982</b>	<b>5.5000e-004</b>	<b>0.0333</b>	<b>9.5800e-003</b>	<b>0.0429</b>	<b>8.9200e-003</b>	<b>9.5600e-003</b>	<b>0.0185</b>	<b>2.7138</b>	<b>73.1458</b>	<b>75.8597</b>	<b>0.1340</b>	<b>1.3800e-003</b>	<b>79.6177</b>

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

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/15/2020	3/28/2020	5	10	
2	Site Preparation	Site Preparation	3/29/2020	3/30/2020	5	1	
3	Grading	Grading	3/31/2020	4/9/2020	5	8	
4	Building Construction	Building Construction	4/10/2020	8/27/2020	5	100	
5	Paving	Paving	8/21/2020	8/27/2020	5	5	
6	Architectural Coating	Architectural Coating	8/21/2020	8/27/2020	5	5	



Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 34,425; Residential Outdoor: 11,475; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

**OffRoad Equipment**

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

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	5.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5500e-003	0.0315	0.0296	5.0000e-005		1.8400e-003	1.8400e-003		1.7700e-003	1.7700e-003	0.0000	4.1806	4.1806	6.5000e-004	0.0000	4.1969
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0315</b>	<b>0.0296</b>	<b>5.0000e-005</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.1806</b>	<b>4.1806</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>4.1969</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	9.1100e-003	2.4300e-003	2.0000e-005	5.3000e-004	5.0000e-005	5.7000e-004	1.5000e-004	4.0000e-005	2.0000e-004	0.0000	2.0915	2.0915	1.0000e-004	0.0000	2.0939
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1700	0.1700	0.0000	0.0000	0.1701
<b>Total</b>	<b>4.0000e-004</b>	<b>9.1700e-003</b>	<b>3.0600e-003</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>5.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>4.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.2641</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5500e-003	0.0315	0.0296	5.0000e-005		2.8000e-004	2.8000e-004		2.7000e-004	2.7000e-004	0.0000	4.1806	4.1806	6.5000e-004	0.0000	4.1969
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0315</b>	<b>0.0296</b>	<b>5.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>4.1806</b>	<b>4.1806</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>4.1969</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	9.1100e-003	2.4300e-003	2.0000e-005	4.9000e-004	5.0000e-005	5.4000e-004	1.4000e-004	4.0000e-005	1.9000e-004	0.0000	2.0915	2.0915	1.0000e-004	0.0000	2.0939
Worker	8.0000e-005	6.0000e-005	6.3000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1700	0.1700	0.0000	0.0000	0.1701
<b>Total</b>	<b>4.0000e-004</b>	<b>9.1700e-003</b>	<b>3.0600e-003</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>5.0000e-005</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>4.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.2641</b>

### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	5.2700e-003	3.1900e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.2000e-004	2.2000e-004	0.0000	0.5644	0.5644	1.8000e-004	0.0000	0.5690
<b>Total</b>	<b>4.5000e-004</b>	<b>5.2700e-003</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>2.3000e-004</b>	<b>5.0000e-004</b>	<b>3.0000e-005</b>	<b>2.2000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5644</b>	<b>0.5644</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0523	0.0523	0.0000	0.0000	0.0524
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170
<b>Total</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0693</b>	<b>0.0693</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	5.2700e-003	3.1900e-003	1.0000e-005		4.0000e-005	4.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.5644	0.5644	1.8000e-004	0.0000	0.5690
<b>Total</b>	<b>4.5000e-004</b>	<b>5.2700e-003</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1000e-004</b>	<b>4.0000e-005</b>	<b>1.5000e-004</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.5644</b>	<b>0.5644</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0523	0.0523	0.0000	0.0000	0.0524
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170
<b>Total</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0693</b>	<b>0.0693</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0694</b>

**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					3.0100e-003	0.0000	3.0100e-003	1.6600e-003	0.0000	1.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4700e-003	0.0315	0.0305	5.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	4.1630	4.1630	7.9000e-004	0.0000	4.1827
<b>Total</b>	<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0305</b>	<b>5.0000e-005</b>	<b>3.0100e-003</b>	<b>1.8700e-003</b>	<b>4.8800e-003</b>	<b>1.6600e-003</b>	<b>1.7800e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>4.1630</b>	<b>4.1630</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.1827</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	4.9000e-004	0.0000	1.1000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4183	0.4183	2.0000e-005	0.0000	0.4188
Worker	1.3000e-004	1.0000e-004	1.0000e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	0.0000	0.2722
<b>Total</b>	<b>1.9000e-004</b>	<b>1.9200e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>1.1000e-004</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.6904</b>	<b>0.6904</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	7.1000e-004	0.0000	7.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4700e-003	0.0315	0.0305	5.0000e-005		2.8000e-004	2.8000e-004		2.7000e-004	2.7000e-004	0.0000	4.1630	4.1630	7.9000e-004	0.0000	4.1827
<b>Total</b>	<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0305</b>	<b>5.0000e-005</b>	<b>1.2900e-003</b>	<b>2.8000e-004</b>	<b>1.5700e-003</b>	<b>7.1000e-004</b>	<b>2.7000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>4.1630</b>	<b>4.1630</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.1827</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	4.9000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4183	0.4183	2.0000e-005	0.0000	0.4188
Worker	1.3000e-004	1.0000e-004	1.0000e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	0.0000	0.2722
<b>Total</b>	<b>1.9000e-004</b>	<b>1.9200e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.6904</b>	<b>0.6904</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	50.0302	50.0302	0.0162	0.0000	50.4348
<b>Total</b>	<b>0.0431</b>	<b>0.4426</b>	<b>0.3694</b>	<b>5.7000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0240</b>	<b>0.0240</b>	<b>0.0000</b>	<b>50.0302</b>	<b>50.0302</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4348</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0114	3.0300e-003	3.0000e-005	6.6000e-004	6.0000e-005	7.1000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.6144	2.6144	1.2000e-004	0.0000	2.6174
Worker	1.9900e-003	1.4300e-003	0.0150	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	4.0809	4.0809	1.0000e-004	0.0000	4.0834
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>8.0000e-005</b>	<b>5.4200e-003</b>	<b>9.0000e-005</b>	<b>5.5000e-003</b>	<b>1.4600e-003</b>	<b>8.0000e-005</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>6.6953</b>	<b>6.6953</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.7008</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.4426	0.3694	5.7000e-004		3.9200e-003	3.9200e-003		3.6000e-003	3.6000e-003	0.0000	50.0302	50.0302	0.0162	0.0000	50.4347
<b>Total</b>	<b>0.0431</b>	<b>0.4426</b>	<b>0.3694</b>	<b>5.7000e-004</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>50.0302</b>	<b>50.0302</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4347</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0114	3.0300e-003	3.0000e-005	6.2000e-004	6.0000e-005	6.7000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	2.6144	2.6144	1.2000e-004	0.0000	2.6174
Worker	1.9900e-003	1.4300e-003	0.0150	5.0000e-005	4.3900e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	4.0809	4.0809	1.0000e-004	0.0000	4.0834
<b>Total</b>	<b>2.3900e-003</b>	<b>0.0128</b>	<b>0.0181</b>	<b>8.0000e-005</b>	<b>5.0100e-003</b>	<b>9.0000e-005</b>	<b>5.0900e-003</b>	<b>1.3500e-003</b>	<b>8.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>6.6953</b>	<b>6.6953</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.7008</b>

### **3.6 Paving - 2020**

#### Unmitigated Construction On-Site

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3061	0.3061	1.0000e-005	0.0000	0.3063
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3061</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3063</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		2.4000e-004	2.4000e-004		2.3000e-004	2.3000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.9300e-003</b>	<b>0.0181</b>	<b>0.0178</b>	<b>3.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.3482</b>	<b>2.3482</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3653</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3061	0.3061	1.0000e-005	0.0000	0.3063
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3061</b>	<b>0.3061</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3063</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1197					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.1203</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0340</b>	<b>0.0340</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0340</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1197					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.1203</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</b>

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0340</b>	<b>0.0340</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0340</b>

## 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	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245
Unmitigated	9.7000e-003	0.0405	0.1132	3.7000e-004	0.0333	3.2000e-004	0.0337	8.9200e-003	3.0000e-004	9.2200e-003	0.0000	34.0947	34.0947	1.1900e-003	0.0000	34.1245

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Retirement Community	40.80	34.51	33.15	89,633	89,633
Total	40.80	34.51	33.15	89,633	89,633

#### 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
Retirement Community	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Retirement Community	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

## 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	23.9890	23.9890	1.0800e-003	2.2000e-004	24.0830
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9890	23.9890	1.0800e-003	2.2000e-004	24.0830
NaturalGas Mitigated	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
NaturalGas Unmitigated	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549

### 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					
Retirement Community	226428	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
<b>Total</b>		<b>1.2200e-003</b>	<b>0.0104</b>	<b>4.4400e-003</b>	<b>7.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>12.0831</b>	<b>12.0831</b>	<b>2.3000e-004</b>	<b>2.2000e-004</b>	<b>12.1549</b>



**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Retirement Community	226428	1.2200e-003	0.0104	4.4400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0831	12.0831	2.3000e-004	2.2000e-004	12.1549
<b>Total</b>		<b>1.2200e-003</b>	<b>0.0104</b>	<b>4.4400e-003</b>	<b>7.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>12.0831</b>	<b>12.0831</b>	<b>2.3000e-004</b>	<b>2.2000e-004</b>	<b>12.1549</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Retirement Community	82461.6	23.9890	1.0800e-003	2.2000e-004	24.0830
<b>Total</b>		<b>23.9890</b>	<b>1.0800e-003</b>	<b>2.2000e-004</b>	<b>24.0830</b>

## Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Retirement Community	82461.6	23.9890	1.0800e-003	2.2000e-004	24.0830
<b>Total</b>		<b>23.9890</b>	<b>1.0800e-003</b>	<b>2.2000e-004</b>	<b>24.0830</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508
Unmitigated	0.1214	2.3600e-003	0.1805	1.1000e-004		8.4200e-003	8.4200e-003		8.4200e-003	8.4200e-003	0.7750	0.5245	1.2996	1.4500e-003	5.0000e-005	1.3508

## 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	0.0120						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0664						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0392	9.0000e-004	0.0540	1.1000e-004			7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003	0.7750	0.3183	1.0934	1.2500e-003	5.0000e-005	1.1397
Landscaping	3.8300e-003	1.4600e-003	0.1265	1.0000e-005			7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	0.2062	0.2062	2.0000e-004	0.0000	0.2112
<b>Total</b>	<b>0.1214</b>	<b>2.3600e-003</b>	<b>0.1805</b>	<b>1.2000e-004</b>			<b>8.4200e-003</b>	<b>8.4200e-003</b>		<b>8.4200e-003</b>	<b>8.4200e-003</b>	<b>0.7750</b>	<b>0.5245</b>	<b>1.2996</b>	<b>1.4500e-003</b>	<b>5.0000e-005</b>	<b>1.3508</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0120						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0664						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0392	9.0000e-004	0.0540	1.1000e-004			7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003	0.7750	0.3183	1.0934	1.2500e-003	5.0000e-005	1.1397
Landscaping	3.8300e-003	1.4600e-003	0.1265	1.0000e-005			7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	0.2062	0.2062	2.0000e-004	0.0000	0.2112
<b>Total</b>	<b>0.1214</b>	<b>2.3600e-003</b>	<b>0.1805</b>	<b>1.2000e-004</b>			<b>8.4200e-003</b>	<b>8.4200e-003</b>		<b>8.4200e-003</b>	<b>8.4200e-003</b>	<b>0.7750</b>	<b>0.5245</b>	<b>1.2996</b>	<b>1.4500e-003</b>	<b>5.0000e-005</b>	<b>1.3508</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.8059	0.0362	8.8000e-004	3.9718
Unmitigated	2.8059	0.0362	8.8000e-004	3.9718

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Retirement Community	1.10762 / 0.698281	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>		<b>2.8059</b>	<b>0.0362</b>	<b>8.8000e-004</b>	<b>3.9718</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Retirement Community	1.10762 / 0.698281	2.8059	0.0362	8.8000e-004	3.9718
<b>Total</b>		<b>2.8059</b>	<b>0.0362</b>	<b>8.8000e-004</b>	<b>3.9718</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.5874	0.0938	0.0000	3.9327
Unmitigated	1.5874	0.0938	0.0000	3.9327

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Retirement Community	7.82	1.5874	0.0938	0.0000	3.9327
<b>Total</b>		<b>1.5874</b>	<b>0.0938</b>	<b>0.0000</b>	<b>3.9327</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Retirement Community	7.82	1.5874	0.0938	0.0000	3.9327
<b>Total</b>		<b>1.5874</b>	<b>0.0938</b>	<b>0.0000</b>	<b>3.9327</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Forum Construction - Santa Clara County, Annual

**Forum Construction  
Santa Clara County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	27.81	1000sqft	0.64	27,810.00	0
Other Asphalt Surfaces	35.50	1000sqft	0.81	35,500.00	0
Other Non-Asphalt Surfaces	28.42	1000sqft	0.65	28,420.00	0
Parking Lot	8.21	1000sqft	0.19	8,208.00	0
Fast Food Restaurant w/o Drive Thru	0.92	1000sqft	0.02	920.00	0
Health Club	1.41	1000sqft	0.03	1,412.00	0
Congregate Care (Assisted Living)	36.00	Dwelling Unit	2.23	59,271.00	28
Retirement Community	25.00	Dwelling Unit	1.31	74,166.00	19

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - See CalEEMod Assumptions
- Construction Phase -
- Vehicle Trips - See Traffic Study



Woodstoves - No Woodstoves, No wood Fireplaces

Area Coating - Not all parking land uses will include striping

Water And Wastewater - 100% Aerobic, See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - BAAWMD BMPs

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	5996	2161
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFireplaces	NumberGas	5.40	10.00
tblFireplaces	NumberGas	3.75	8.00
tblFireplaces	NumberNoFireplace	1.44	2.00
tblFireplaces	NumberWood	6.12	0.00
tblFireplaces	NumberWood	4.25	0.00
tblFleetMix	HHD	0.02	3.9730e-003
tblFleetMix	HHD	0.02	3.9730e-003
tblFleetMix	LDA	0.61	0.71
tblFleetMix	LDA	0.61	0.71
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.21
tblFleetMix	LDT2	0.18	0.21
tblFleetMix	LHD1	0.01	2.7120e-003
tblFleetMix	LHD1	0.01	2.7120e-003
tblFleetMix	LHD2	5.0070e-003	9.4200e-004
tblFleetMix	LHD2	5.0070e-003	9.4200e-004
tblFleetMix	MCY	5.3120e-003	6.7490e-003

tblFleetMix	MCY	5.3120e-003	6.7490e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MH	7.4000e-004	0.00
tblFleetMix	MHD	0.01	2.3730e-003
tblFleetMix	MHD	0.01	2.3730e-003
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	OBUS	2.1440e-003	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	SBUS	6.2700e-004	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblFleetMix	UBUS	1.5480e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	8,210.00	8,208.00
tblLandUse	BuildingSpaceSquareFeet	1,410.00	1,412.00
tblLandUse	BuildingSpaceSquareFeet	36,000.00	59,271.00
tblLandUse	BuildingSpaceSquareFeet	25,000.00	74,166.00
tblLandUse	LandUseSquareFeet	8,210.00	8,208.00
tblLandUse	LandUseSquareFeet	1,410.00	1,412.00
tblLandUse	LandUseSquareFeet	36,000.00	59,271.00
tblLandUse	LandUseSquareFeet	25,000.00	74,166.00
tblLandUse	LotAcreage	2.25	2.23
tblLandUse	LotAcreage	5.00	1.31
tblLandUse	Population	103.00	28.00
tblLandUse	Population	72.00	19.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.20	2.66
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	2.03	3.68

tblVehicleTrips	SU_TR	2.44	2.66
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	1.95	3.68
tblVehicleTrips	WD_TR	2.74	2.66
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	2.40	3.68
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce nt	2.21	0.00
tblWater	OutdoorWaterUseRate	1,478,713.10	0.00
tblWater	OutdoorWaterUseRate	1,026,884.10	2,154,578.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	0.72	0.00
tblWoodstoves	NumberCatalytic	0.50	0.00
tblWoodstoves	NumberNoncatalytic	0.72	0.00
tblWoodstoves	NumberNoncatalytic	0.50	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4222	3.7534	2.7482	5.1500e-003	0.2477	0.2091	0.4569	0.1081	0.1959	0.3040	0.0000	463.9176	463.9176	0.0904	0.0000	466.1775
2019	0.3572	3.1069	2.6271	5.1200e-003	0.1055	0.1687	0.2742	0.0285	0.1586	0.1870	0.0000	456.9928	456.9928	0.0810	0.0000	459.0182
2020	0.9815	0.0737	0.0827	1.4000e-004	1.8200e-003	4.1300e-003	5.9600e-003	4.9000e-004	3.8900e-003	4.3800e-003	0.0000	12.1289	12.1289	2.8300e-003	0.0000	12.1996
<b>Maximum</b>	<b>0.9815</b>	<b>3.7534</b>	<b>2.7482</b>	<b>5.1500e-003</b>	<b>0.2477</b>	<b>0.2091</b>	<b>0.4569</b>	<b>0.1081</b>	<b>0.1959</b>	<b>0.3040</b>	<b>0.0000</b>	<b>463.9176</b>	<b>463.9176</b>	<b>0.0904</b>	<b>0.0000</b>	<b>466.1775</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4222	3.7534	2.7482	5.1500e-003	0.1585	0.2091	0.3676	0.0604	0.1959	0.2563	0.0000	463.9172	463.9172	0.0904	0.0000	466.1771
2019	0.3572	3.1069	2.6270	5.1200e-003	0.1055	0.1687	0.2742	0.0285	0.1586	0.1870	0.0000	456.9924	456.9924	0.0810	0.0000	459.0178
2020	0.9815	0.0737	0.0827	1.4000e-004	1.8200e-003	4.1300e-003	5.9600e-003	4.9000e-004	3.8900e-003	4.3800e-003	0.0000	12.1289	12.1289	2.8300e-003	0.0000	12.1996
<b>Maximum</b>	<b>0.9815</b>	<b>3.7534</b>	<b>2.7482</b>	<b>5.1500e-003</b>	<b>0.1585</b>	<b>0.2091</b>	<b>0.3676</b>	<b>0.0604</b>	<b>0.1959</b>	<b>0.2563</b>	<b>0.0000</b>	<b>463.9172</b>	<b>463.9172</b>	<b>0.0904</b>	<b>0.0000</b>	<b>466.1771</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>25.13</b>	<b>0.00</b>	<b>12.11</b>	<b>34.80</b>	<b>0.00</b>	<b>9.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.2271	1.2271
2	4-1-2018	6-30-2018	0.9697	0.9697
3	7-1-2018	9-30-2018	0.9804	0.9804
4	10-1-2018	12-31-2018	0.9846	0.9846
5	1-1-2019	3-31-2019	0.8701	0.8701
6	4-1-2019	6-30-2019	0.8761	0.8761
7	7-1-2019	9-30-2019	0.8857	0.8857
8	10-1-2019	12-31-2019	0.8243	0.8243
9	1-1-2020	3-31-2020	1.0485	1.0485
		<b>Highest</b>	1.2271	1.2271

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6466	7.1800e-003	0.4552	4.0000e-005		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	2.9888	2.9888	7.6000e-004	4.0000e-005	3.0201
Energy	5.1800e-003	0.0449	0.0238	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	201.6754	201.6754	7.7800e-003	2.3500e-003	202.5693
Mobile	0.0390	0.0622	0.4628	1.4100e-003	0.1592	1.0400e-003	0.1603	0.0423	9.6000e-004	0.0433	0.0000	127.4791	127.4791	3.9900e-003	0.0000	127.5788
Waste						0.0000	0.0000		0.0000	0.0000	12.7864	0.0000	12.7864	0.7557	0.0000	31.6778
Water						0.0000	0.0000		0.0000	0.0000	1.5345	9.0910	10.6254	5.6900e-003	3.4200e-003	11.7875
<b>Total</b>	<b>0.6908</b>	<b>0.1143</b>	<b>0.9418</b>	<b>1.7300e-003</b>	<b>0.1592</b>	<b>7.2900e-003</b>	<b>0.1665</b>	<b>0.0423</b>	<b>7.2100e-003</b>	<b>0.0496</b>	<b>14.3209</b>	<b>341.2343</b>	<b>355.5551</b>	<b>0.7739</b>	<b>5.8100e-003</b>	<b>376.6335</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6464	5.2400e-003	0.4544	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7417	0.7417	7.2000e-004	0.0000	0.7597
Energy	4.2400e-003	0.0368	0.0198	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	180.8839	180.8839	7.0900e-003	2.0700e-003	181.6776
Mobile	0.0390	0.0622	0.4628	1.4100e-003	0.1592	1.0400e-003	0.1603	0.0423	9.6000e-004	0.0433	0.0000	127.4791	127.4791	3.9900e-003	0.0000	127.5788
Waste						0.0000	0.0000		0.0000	0.0000	12.7864	0.0000	12.7864	0.7557	0.0000	31.6778
Water						0.0000	0.0000		0.0000	0.0000	1.2276	7.5875	8.8150	4.5700e-003	2.7400e-003	9.7459
<b>Total</b>	<b>0.6896</b>	<b>0.1042</b>	<b>0.9370</b>	<b>1.6600e-003</b>	<b>0.1592</b>	<b>6.4800e-003</b>	<b>0.1657</b>	<b>0.0423</b>	<b>6.4000e-003</b>	<b>0.0487</b>	<b>14.0140</b>	<b>316.6922</b>	<b>330.7062</b>	<b>0.7720</b>	<b>4.8100e-003</b>	<b>351.4397</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.17</b>	<b>8.80</b>	<b>0.51</b>	<b>4.05</b>	<b>0.00</b>	<b>11.11</b>	<b>0.49</b>	<b>0.00</b>	<b>11.23</b>	<b>1.63</b>	<b>2.14</b>	<b>7.19</b>	<b>6.99</b>	<b>0.24</b>	<b>17.21</b>	<b>6.69</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
3	Grading	Grading	2/10/2018	3/9/2018	5	20	
4	Building Construction 1a	Building Construction	3/10/2018	1/25/2019	5	230	
5	Building Construction 1b	Building Construction	1/26/2019	12/13/2019	5	230	
6	Paving	Paving	12/14/2019	1/10/2020	5	20	
7	Architectural Coating	Architectural Coating	1/11/2020	2/7/2020	5	20	





Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.29

Residential Indoor: 270,210; Residential Outdoor: 90,070; Non-Residential Indoor: 3,498; Non-Residential Outdoor: 1,166; Striped

**OffRoad Equipment**

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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Demolition		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation		7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	87.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1a Building Construction		9	87.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1b Paving		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1241	35.1241	9.6800e-003	0.0000	35.3660
<b>Total</b>	<b>0.0372</b>	<b>0.3832</b>	<b>0.2230</b>	<b>3.9000e-004</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0181</b>	<b>0.0181</b>	<b>0.0000</b>	<b>35.1241</b>	<b>35.1241</b>	<b>9.6800e-003</b>	<b>0.0000</b>	<b>35.3660</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0854	1.0854	3.0000e-005	0.0000	1.0862
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6000e-004</b>	<b>4.7300e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0854</b>	<b>1.0854</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0862</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1240	35.1240	9.6800e-003	0.0000	35.3660
<b>Total</b>	<b>0.0372</b>	<b>0.3832</b>	<b>0.2230</b>	<b>3.9000e-004</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0181</b>	<b>0.0181</b>	<b>0.0000</b>	<b>35.1240</b>	<b>35.1240</b>	<b>9.6800e-003</b>	<b>0.0000</b>	<b>35.3660</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0854	1.0854	3.0000e-005	0.0000	1.0862
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6000e-004</b>	<b>4.7300e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0854</b>	<b>1.0854</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0862</b>

**3.3 Site Preparation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0129</b>	<b>0.1032</b>	<b>0.0497</b>	<b>0.0119</b>	<b>0.0615</b>	<b>0.0000</b>	<b>17.3800</b>	<b>17.3800</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6512	0.6512	2.0000e-005	0.0000	0.6517
<b>Total</b>	<b>3.6000e-004</b>	<b>2.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6512</b>	<b>0.6512</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6517</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0386	0.0000	0.0386	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0386</b>	<b>0.0129</b>	<b>0.0515</b>	<b>0.0212</b>	<b>0.0119</b>	<b>0.0331</b>	<b>0.0000</b>	<b>17.3799</b>	<b>17.3799</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.8000e-004	2.8400e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6512	0.6512	2.0000e-005	0.0000	0.6517
<b>Total</b>	<b>3.6000e-004</b>	<b>2.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6512</b>	<b>0.6512</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6517</b>

**3.4 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1069	27.1069	8.4400e-003	0.0000	27.3178
<b>Total</b>	<b>0.0277</b>	<b>0.3067</b>	<b>0.1658</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0155</b>	<b>0.0810</b>	<b>0.0337</b>	<b>0.0143</b>	<b>0.0479</b>	<b>0.0000</b>	<b>27.1069</b>	<b>27.1069</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>27.3178</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0854	1.0854	3.0000e-005	0.0000	1.0862
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6000e-004</b>	<b>4.7300e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0854</b>	<b>1.0854</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0862</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0280	0.0000	0.0280	0.0144	0.0000	0.0144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1068	27.1068	8.4400e-003	0.0000	27.3178
<b>Total</b>	<b>0.0277</b>	<b>0.3067</b>	<b>0.1658</b>	<b>3.0000e-004</b>	<b>0.0280</b>	<b>0.0155</b>	<b>0.0435</b>	<b>0.0144</b>	<b>0.0143</b>	<b>0.0287</b>	<b>0.0000</b>	<b>27.1068</b>	<b>27.1068</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>27.3178</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.6000e-004	4.7300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0854	1.0854	3.0000e-005	0.0000	1.0862
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6000e-004</b>	<b>4.7300e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0854</b>	<b>1.0854</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0862</b>

**3.5 Building Construction 1a - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2827	2.4677	1.8547	2.8400e-003		0.1582	0.1582		0.1488	0.1488	0.0000	250.8444	250.8444	0.0615	0.0000	252.3809
<b>Total</b>	<b>0.2827</b>	<b>2.4677</b>	<b>1.8547</b>	<b>2.8400e-003</b>		<b>0.1582</b>	<b>0.1582</b>		<b>0.1488</b>	<b>0.1488</b>	<b>0.0000</b>	<b>250.8444</b>	<b>250.8444</b>	<b>0.0615</b>	<b>0.0000</b>	<b>252.3809</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0133	0.3252	0.0905	6.7000e-004	0.0160	2.6100e-003	0.0186	4.6100e-003	2.5000e-003	7.1100e-003	0.0000	64.2251	64.2251	3.3300e-003	0.0000	64.3083
Worker	0.0370	0.0284	0.2895	7.4000e-004	0.0728	4.9000e-004	0.0733	0.0194	4.5000e-004	0.0198	0.0000	66.4152	66.4152	1.9900e-003	0.0000	66.4651
<b>Total</b>	<b>0.0502</b>	<b>0.3536</b>	<b>0.3800</b>	<b>1.4100e-003</b>	<b>0.0888</b>	<b>3.1000e-003</b>	<b>0.0919</b>	<b>0.0240</b>	<b>2.9500e-003</b>	<b>0.0269</b>	<b>0.0000</b>	<b>130.6403</b>	<b>130.6403</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>130.7734</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2827	2.4676	1.8547	2.8400e-003		0.1582	0.1582		0.1488	0.1488	0.0000	250.8441	250.8441	0.0615	0.0000	252.3806
<b>Total</b>	<b>0.2827</b>	<b>2.4676</b>	<b>1.8547</b>	<b>2.8400e-003</b>		<b>0.1582</b>	<b>0.1582</b>		<b>0.1488</b>	<b>0.1488</b>	<b>0.0000</b>	<b>250.8441</b>	<b>250.8441</b>	<b>0.0615</b>	<b>0.0000</b>	<b>252.3806</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0133	0.3252	0.0905	6.7000e-004	0.0160	2.6100e-003	0.0186	4.6100e-003	2.5000e-003	7.1100e-003	0.0000	64.2251	64.2251	3.3300e-003	0.0000	64.3083
Worker	0.0370	0.0284	0.2895	7.4000e-004	0.0728	4.9000e-004	0.0733	0.0194	4.5000e-004	0.0198	0.0000	66.4152	66.4152	1.9900e-003	0.0000	66.4651
<b>Total</b>	<b>0.0502</b>	<b>0.3536</b>	<b>0.3800</b>	<b>1.4100e-003</b>	<b>0.0888</b>	<b>3.1000e-003</b>	<b>0.0919</b>	<b>0.0240</b>	<b>2.9500e-003</b>	<b>0.0269</b>	<b>0.0000</b>	<b>130.6403</b>	<b>130.6403</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>130.7734</b>

**3.5 Building Construction 1a - 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					
Off-Road	0.0224	0.2003	0.1631	2.6000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	22.3349	22.3349	5.4400e-003	0.0000	22.4709
<b>Total</b>	<b>0.0224</b>	<b>0.2003</b>	<b>0.1631</b>	<b>2.6000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>22.3349</b>	<b>22.3349</b>	<b>5.4400e-003</b>	<b>0.0000</b>	<b>22.4709</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0276	7.4100e-003	6.0000e-005	1.4400e-003	2.0000e-004	1.6400e-003	4.2000e-004	1.9000e-004	6.1000e-004	0.0000	5.7477	5.7477	2.9000e-004	0.0000	5.7548
Worker	3.0000e-003	2.2400e-003	0.0231	6.0000e-005	6.5600e-003	4.0000e-005	6.6000e-003	1.7400e-003	4.0000e-005	1.7800e-003	0.0000	5.8027	5.8027	1.6000e-004	0.0000	5.8067
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0298</b>	<b>0.0305</b>	<b>1.2000e-004</b>	<b>8.0000e-003</b>	<b>2.4000e-004</b>	<b>8.2400e-003</b>	<b>2.1600e-003</b>	<b>2.3000e-004</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>11.5504</b>	<b>11.5504</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.5615</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0224	0.2003	0.1631	2.6000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	22.3349	22.3349	5.4400e-003	0.0000	22.4709
<b>Total</b>	<b>0.0224</b>	<b>0.2003</b>	<b>0.1631</b>	<b>2.6000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>22.3349</b>	<b>22.3349</b>	<b>5.4400e-003</b>	<b>0.0000</b>	<b>22.4709</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0276	7.4100e-003	6.0000e-005	1.4400e-003	2.0000e-004	1.6400e-003	4.2000e-004	1.9000e-004	6.1000e-004	0.0000	5.7477	5.7477	2.9000e-004	0.0000	5.7548
Worker	3.0000e-003	2.2400e-003	0.0231	6.0000e-005	6.5600e-003	4.0000e-005	6.6000e-003	1.7400e-003	4.0000e-005	1.7800e-003	0.0000	5.8027	5.8027	1.6000e-004	0.0000	5.8067
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0298</b>	<b>0.0305</b>	<b>1.2000e-004</b>	<b>8.0000e-003</b>	<b>2.4000e-004</b>	<b>8.2400e-003</b>	<b>2.1600e-003</b>	<b>2.3000e-004</b>	<b>2.3900e-003</b>	<b>0.0000</b>	<b>11.5504</b>	<b>11.5504</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.5615</b>

### 3.6 Building Construction 1b - 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					
Off-Road	0.2715	2.4241	1.9738	3.0900e-003		0.1483	0.1483		0.1395	0.1395	0.0000	270.3698	270.3698	0.0659	0.0000	272.0164
<b>Total</b>	<b>0.2715</b>	<b>2.4241</b>	<b>1.9738</b>	<b>3.0900e-003</b>		<b>0.1483</b>	<b>0.1483</b>		<b>0.1395</b>	<b>0.1395</b>	<b>0.0000</b>	<b>270.3698</b>	<b>270.3698</b>	<b>0.0659</b>	<b>0.0000</b>	<b>272.0164</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0130	0.3340	0.0897	7.3000e-004	0.0174	2.4000e-003	0.0198	5.0300e-003	2.3000e-003	7.3300e-003	0.0000	69.5772	69.5772	3.4500e-003	0.0000	69.6635
Worker	0.0363	0.0271	0.2795	7.8000e-004	0.0794	5.2000e-004	0.0799	0.0211	4.8000e-004	0.0216	0.0000	70.2434	70.2434	1.9100e-003	0.0000	70.2913
<b>Total</b>	<b>0.0493</b>	<b>0.3611</b>	<b>0.3692</b>	<b>1.5100e-003</b>	<b>0.0968</b>	<b>2.9200e-003</b>	<b>0.0997</b>	<b>0.0261</b>	<b>2.7800e-003</b>	<b>0.0289</b>	<b>0.0000</b>	<b>139.8207</b>	<b>139.8207</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>139.9547</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2715	2.4241	1.9738	3.0900e-003		0.1483	0.1483		0.1395	0.1395	0.0000	270.3695	270.3695	0.0659	0.0000	272.0161
<b>Total</b>	<b>0.2715</b>	<b>2.4241</b>	<b>1.9738</b>	<b>3.0900e-003</b>		<b>0.1483</b>	<b>0.1483</b>		<b>0.1395</b>	<b>0.1395</b>	<b>0.0000</b>	<b>270.3695</b>	<b>270.3695</b>	<b>0.0659</b>	<b>0.0000</b>	<b>272.0161</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0130	0.3340	0.0897	7.3000e-004	0.0174	2.4000e-003	0.0198	5.0300e-003	2.3000e-003	7.3300e-003	0.0000	69.5772	69.5772	3.4500e-003	0.0000	69.6635
Worker	0.0363	0.0271	0.2795	7.8000e-004	0.0794	5.2000e-004	0.0799	0.0211	4.8000e-004	0.0216	0.0000	70.2434	70.2434	1.9100e-003	0.0000	70.2913
<b>Total</b>	<b>0.0493</b>	<b>0.3611</b>	<b>0.3692</b>	<b>1.5100e-003</b>	<b>0.0968</b>	<b>2.9200e-003</b>	<b>0.0997</b>	<b>0.0261</b>	<b>2.7800e-003</b>	<b>0.0289</b>	<b>0.0000</b>	<b>139.8207</b>	<b>139.8207</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>139.9547</b>

### **3.7 Paving - 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					
Off-Road	8.7300e-003	0.0915	0.0880	1.4000e-004		4.9500e-003	4.9500e-003		4.5500e-003	4.5500e-003	0.0000	12.2851	12.2851	3.8900e-003	0.0000	12.3823
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.5200e-003</b>	<b>0.0915</b>	<b>0.0880</b>	<b>1.4000e-004</b>		<b>4.9500e-003</b>	<b>4.9500e-003</b>		<b>4.5500e-003</b>	<b>4.5500e-003</b>	<b>0.0000</b>	<b>12.2851</b>	<b>12.2851</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>12.3823</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6319	0.6319	2.0000e-005	0.0000	0.6323
<b>Total</b>	<b>3.3000e-004</b>	<b>2.4000e-004</b>	<b>2.5100e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6319</b>	<b>0.6319</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6323</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7300e-003	0.0915	0.0880	1.4000e-004		4.9500e-003	4.9500e-003		4.5500e-003	4.5500e-003	0.0000	12.2851	12.2851	3.8900e-003	0.0000	12.3823
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.5200e-003</b>	<b>0.0915</b>	<b>0.0880</b>	<b>1.4000e-004</b>		<b>4.9500e-003</b>	<b>4.9500e-003</b>		<b>4.5500e-003</b>	<b>4.5500e-003</b>	<b>0.0000</b>	<b>12.2851</b>	<b>12.2851</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>12.3823</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6319	0.6319	2.0000e-005	0.0000	0.6323
<b>Total</b>	<b>3.3000e-004</b>	<b>2.4000e-004</b>	<b>2.5100e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6319</b>	<b>0.6319</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6323</b>

**3.7 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	5.4300e-003	0.0563	0.0586	9.0000e-005		3.0100e-003	3.0100e-003		2.7700e-003	2.7700e-003	0.0000	8.0113	8.0113	2.5900e-003	0.0000	8.0761
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.9500e-003</b>	<b>0.0563</b>	<b>0.0586</b>	<b>9.0000e-005</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>		<b>2.7700e-003</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>8.0113</b>	<b>8.0113</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>8.0761</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.4000e-004	1.5000e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4081	0.4081	1.0000e-005	0.0000	0.4083
<b>Total</b>	<b>2.0000e-004</b>	<b>1.4000e-004</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4081</b>	<b>0.4081</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4083</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4300e-003	0.0563	0.0586	9.0000e-005		3.0100e-003	3.0100e-003		2.7700e-003	2.7700e-003	0.0000	8.0113	8.0113	2.5900e-003	0.0000	8.0761
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.9500e-003</b>	<b>0.0563</b>	<b>0.0586</b>	<b>9.0000e-005</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>		<b>2.7700e-003</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>8.0113</b>	<b>8.0113</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>8.0761</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.4000e-004	1.5000e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4081	0.4081	1.0000e-005	0.0000	0.4083
<b>Total</b>	<b>2.0000e-004</b>	<b>1.4000e-004</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4081</b>	<b>0.4081</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4083</b>

### **3.8 Architectural Coating - 2020**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
<b>Total</b>	<b>0.9747</b>	<b>0.0168</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.5582</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.1000e-004	4.2500e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1563	1.1563	3.0000e-005	0.0000	1.1570
<b>Total</b>	<b>5.6000e-004</b>	<b>4.1000e-004</b>	<b>4.2500e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>1.0000e-005</b>	<b>1.3600e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1563</b>	<b>1.1563</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1570</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
<b>Total</b>	<b>0.9747</b>	<b>0.0168</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.5582</b>

## Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.1000e-004	4.2500e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1563	1.1563	3.0000e-005	0.0000	1.1570
<b>Total</b>	<b>5.6000e-004</b>	<b>4.1000e-004</b>	<b>4.2500e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>1.0000e-005</b>	<b>1.3600e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1563</b>	<b>1.1563</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1570</b>

## 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	0.0390	0.0622	0.4628	1.4100e-003	0.1592	1.0400e-003	0.1603	0.0423	9.6000e-004	0.0433	0.0000	127.4791	127.4791	3.9900e-003	0.0000	127.5788
Unmitigated	0.0390	0.0622	0.4628	1.4100e-003	0.1592	1.0400e-003	0.1603	0.0423	9.6000e-004	0.0433	0.0000	127.4791	127.4791	3.9900e-003	0.0000	127.5788

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Congregate Care (Assisted Living)	95.76	95.76	95.76	221,168	221,168
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Retirement Community	92.00	92.00	92.00	212,484	212,484
<b>Total</b>	<b>187.76</b>	<b>187.76</b>	<b>187.76</b>	<b>433,652</b>	<b>433,652</b>

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive Thru	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Retirement Community	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Other Asphalt Surfaces	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Other Non-Asphalt Surfaces	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Parking Lot	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Fast Food Restaurant w/o Drive Thru	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Health Club	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740
Congregate Care (Assisted Living)	0.708205	0.042661	0.212386	0.020000	0.002712	0.000942	0.002373	0.003973	0.000000	0.000000	0.006749	0.000000	0.000000
Retirement Community	0.708205	0.042661	0.212386	0.020000	0.002712	0.000942	0.002373	0.003973	0.000000	0.000000	0.006749	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	138.9406	138.9406	6.2800e-003	1.3000e-003	139.4850
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	150.4256	150.4256	6.8000e-003	1.4100e-003	151.0150
NaturalGas Mitigated	4.2400e-003	0.0368	0.0198	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	41.9434	41.9434	8.0000e-004	7.7000e-004	42.1926
NaturalGas Unmitigated	5.1800e-003	0.0449	0.0238	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2498	51.2498	9.8000e-004	9.4000e-004	51.5543

## 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					
Congregate Care (Assisted Living)	398487	2.1500e-003	0.0184	7.8100e-003	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.2648	21.2648	4.1000e-004	3.9000e-004	21.3911
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	191526	1.0300e-003	9.3900e-003	7.8900e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.2205	10.2205	2.0000e-004	1.9000e-004	10.2813
Health Club	37389.8	2.0000e-004	1.8300e-003	1.5400e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9953	1.9953	4.0000e-005	4.0000e-005	2.0071
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	332982	1.8000e-003	0.0153	6.5300e-003	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7692	17.7692	3.4000e-004	3.3000e-004	17.8748
<b>Total</b>		<b>5.1800e-003</b>	<b>0.0449</b>	<b>0.0238</b>	<b>2.9000e-004</b>		<b>3.5700e-003</b>	<b>3.5700e-003</b>		<b>3.5700e-003</b>	<b>3.5700e-003</b>	<b>0.0000</b>	<b>51.2498</b>	<b>51.2498</b>	<b>9.9000e-004</b>	<b>9.5000e-004</b>	<b>51.5543</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	318713	1.7200e-003	0.0147	6.2500e-003	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	17.0077	17.0077	3.3000e-004	3.1000e-004	17.1088
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	175887	9.5000e-004	8.6200e-003	7.2400e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.3860	9.3860	1.8000e-004	1.7000e-004	9.4418
Health Club	29557.7	1.6000e-004	1.4500e-003	1.2200e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5773	1.5773	3.0000e-005	3.0000e-005	1.5867
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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	261832	1.4100e-003	0.0121	5.1300e-003	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	13.9724	13.9724	2.7000e-004	2.6000e-004	14.0554
<b>Total</b>		<b>4.2400e-003</b>	<b>0.0368</b>	<b>0.0198</b>	<b>2.3000e-004</b>		<b>2.9400e-003</b>	<b>2.9400e-003</b>		<b>2.9400e-003</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>41.9434</b>	<b>41.9434</b>	<b>8.1000e-004</b>	<b>7.7000e-004</b>	<b>42.1926</b>



### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	158795	46.1953	2.0900e-003	4.3000e-004	46.3763
Enclosed Parking with Elevator	187439	54.5283	2.4700e-003	5.1000e-004	54.7419
Fast Food Restaurant w/o Drive Thru	30470.4	8.8642	4.0000e-004	8.0000e-005	8.8989
Health Club	11889	3.4587	1.6000e-004	3.0000e-005	3.4722
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7223.04	2.1013	1.0000e-004	2.0000e-005	2.1095
Retirement Community	121267	35.2780	1.6000e-003	3.3000e-004	35.4162
<b>Total</b>		<b>150.4256</b>	<b>6.8200e-003</b>	<b>1.4000e-003</b>	<b>151.0150</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	154839	45.0444	2.0400e-003	4.2000e-004	45.2209
Enclosed Parking with Elevator	156915	45.6484	2.0600e-003	4.3000e-004	45.8273
Fast Food Restaurant w/o Drive Thru	29102.5	8.4663	3.8000e-004	8.0000e-005	8.4994
Health Club	11276.2	3.2804	1.5000e-004	3.0000e-005	3.2932
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7223.04	2.1013	1.0000e-004	2.0000e-005	2.1095
Retirement Community	118248	34.3998	1.5600e-003	3.2000e-004	34.5346
<b>Total</b>		<b>138.9406</b>	<b>6.2900e-003</b>	<b>1.3000e-003</b>	<b>139.4850</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6464	5.2400e-003	0.4544	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7417	0.7417	7.2000e-004	0.0000	0.7597
Unmitigated	0.6466	7.1800e-003	0.4552	4.0000e-005		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	2.9888	2.9888	7.6000e-004	4.0000e-005	3.0201

### 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	0.0959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3000e-004	1.9400e-003	8.3000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2471	2.2471	4.0000e-005	4.0000e-005	2.2605
Landscaping	0.0138	5.2400e-003	0.4544	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7417	0.7417	7.2000e-004	0.0000	0.7597
<b>Total</b>	<b>0.6466</b>	<b>7.1800e-003</b>	<b>0.4552</b>	<b>3.0000e-005</b>		<b>2.6700e-003</b>	<b>2.6700e-003</b>		<b>2.6700e-003</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>2.9888</b>	<b>2.9888</b>	<b>7.6000e-004</b>	<b>4.0000e-005</b>	<b>3.0201</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0138	5.2400e-003	0.4544	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7417	0.7417	7.2000e-004	0.0000	0.7597
<b>Total</b>	<b>0.6464</b>	<b>5.2400e-003</b>	<b>0.4544</b>	<b>2.0000e-005</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>0.7417</b>	<b>0.7417</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>0.7597</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.8150	4.5700e-003	2.7400e-003	9.7459
Unmitigated	10.6254	5.6900e-003	3.4200e-003	11.7875

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	2.34554 / 0	4.5220	3.0200e-003	1.8400e-003	5.1457
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.279251 / 0.0178245	0.5565	3.6000e-004	2.2000e-004	0.6309
Health Club	0.0833918 / 0.0514444	0.2128	1.1000e-004	7.0000e-005	0.2352
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.62885 / 2.15458	5.3341	2.2000e-003	1.3000e-003	5.7758
<b>Total</b>		<b>10.6254</b>	<b>5.6900e-003</b>	<b>3.4300e-003</b>	<b>11.7875</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	1.87644 / 0	3.6176	2.4200e-003	1.4700e-003	4.1166
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.223401 / 0.0167372	0.4477	2.9000e-004	1.8000e-004	0.5072
Health Club	0.0667135 / 0.0470023	0.1775	9.0000e-005	5.0000e-005	0.1954
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.30308 / 2.02315	4.5722	1.7700e-003	1.0400e-003	4.9267
<b>Total</b>		<b>8.8150</b>	<b>4.5700e-003</b>	<b>2.7400e-003</b>	<b>9.7459</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.7864	0.7557	0.0000	31.6778
Unmitigated	12.7864	0.7557	0.0000	31.6778



# 8.2 Waste by Land Use

## Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	10.6	2.1517	0.1272	0.0000	5.3308
Health Club	8.04	1.6321	0.0965	0.0000	4.0433
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>12.7864</b>	<b>0.7557</b>	<b>0.0000</b>	<b>31.6778</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	32.85	6.6683	0.3941	0.0000	16.5203
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	10.6	2.1517	0.1272	0.0000	5.3308
Health Club	8.04	1.6321	0.0965	0.0000	4.0433
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	11.5	2.3344	0.1380	0.0000	5.7834
<b>Total</b>		<b>12.7864</b>	<b>0.7557</b>	<b>0.0000</b>	<b>31.6778</b>

## 9.0 Operational Offroad

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

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### Fire Pumps and Emergency Generators

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

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

### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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Back to:

**NOTE:**

To print data frame (right side), click on right frame before printing.

**1981 - 2010**

- [Daily Temp. & Precip.](#)
- [Daily Tabular data \(~23 KB\)](#)
- [Monthly Tabular data \(~1 KB\)](#)
- [NCDC 1981-2010 Normals \(~3 KB\)](#)

**1971 - 2000**

- [Daily Temp. & Precip.](#)
- [Daily Tabular data \(~23 KB\)](#)
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- [NCDC 1971-2000 Normals \(~3 KB\)](#)

**1961 - 1990**

- [Daily Temp. & Precip.](#)
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- [NCDC 1961-1990 Normals \(~3 KB\)](#)

**Period of Record**

- [Station Metadata](#)

# SANTA CLARA UNIVERSITY, CALIFORNIA

## (047912)

**Period of Record Monthly Climate Summary****Period of Record : 07/01/1893 to 05/31/1976**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	58.4	62.2	65.7	70.0	74.3	79.1	82.0	81.7	81.2	75.5	66.8	59.0	71.3
Average Min. Temperature (F)	38.2	41.1	42.4	43.9	47.1	50.2	52.6	52.4	50.6	47.0	41.8	38.8	45.5
Average Total Precipitation (in.)	3.03	2.56	2.30	1.03	0.40	0.09	0.01	0.04	0.27	0.63	1.47	2.66	14.50
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 97.4% Min. Temp.: 97.3% Precipitation: 98.9% Snowfall: 60.4% Snow Depth: 60.4%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, [wrcc@dri.edu](mailto:wrcc@dri.edu)