

APPENDIX C

Air Quality and Greenhouse Gas Emissions

2101 Capitol Garage
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	425.00	Space	0.63	170,000.00	0
Strip Mall	13.00	1000sqft	0.30	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage of retail and garage footprint totals 0.933 acres

Construction Phase - All phases based on schedule provided for Building Construction and scaled from 2025 L Street project

Off-road Equipment - Applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

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Demolition -

Grading - Actual acreage of project used

Construction Off-road Equipment Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
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	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	44.00

tblConstructionPhase	NumDays	100.00	160.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	6/30/2016	4/29/2016
tblConstructionPhase	PhaseStartDate	4/30/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	9/19/2015	9/21/2015
tblConstructionPhase	PhaseStartDate	9/5/2015	9/7/2015
tblConstructionPhase	PhaseStartDate	9/12/2015	9/14/2015
tblGrading	AcresOfGrading	0.00	0.93
tblGrading	AcresOfGrading	2.50	0.93
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LotAcreage	3.82	0.63
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.40
tblOffRoadEquipment	LoadFactor	0.73	0.40

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Mobile	2.4767	3.0973	17.5438	0.0232	1.4997	0.0429	1.5426	0.4006	0.0393	0.4399		2,123.4049	2,123.4049	0.1094		2,125.7032
Total	7.0969	3.1175	17.6071	0.0234	1.4997	0.0446	1.5442	0.4006	0.0410	0.4415		2,147.1752	2,147.1752	0.1102	4.3000e-004	2,149.6236

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Mobile	2.4767	3.0973	17.5438	0.0232	1.4997	0.0429	1.5426	0.4006	0.0393	0.4399		2,123.4049	2,123.4049	0.1094		2,125.7032
Total	7.0969	3.1175	17.6071	0.0234	1.4997	0.0446	1.5442	0.4006	0.0410	0.4415		2,147.1752	2,147.1752	0.1102	4.3000e-004	2,149.6236

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/24/2015	9/4/2015	5	10	
2	Grading	Grading	9/7/2015	9/11/2015	5	5	
3	Site Preparation	Site Preparation	9/14/2015	9/18/2015	5	5	
4	Building Construction	Building Construction	9/21/2015	4/29/2016	5	160	
5	Architectural Coating	Architectural Coating	3/1/2016	4/29/2016	5	44	

Acres of Grading (Site Preparation Phase): 0.933

Acres of Grading (Grading Phase): 0.933

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 274,500; Non-Residential Outdoor: 91,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.40
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.40
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	8.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	76.00	30.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	250.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1785	0.0000	0.1785	0.0270	0.0000	0.0270			0.0000			0.0000
Off-Road	1.0271	9.2098	6.7990	8.5600e-003		0.6394	0.6394		0.6051	0.6051		864.6465	864.6465	0.1968		868.7786
Total	1.0271	9.2098	6.7990	8.5600e-003	0.1785	0.6394	0.8179	0.0270	0.6051	0.6321		864.6465	864.6465	0.1968		868.7786

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0226	0.2297	0.2834	5.8000e-004	0.0139	3.7600e-003	0.0176	3.7900e-003	3.4500e-003	7.2500e-003		58.8477	58.8477	4.5000e-004		58.8572
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0404	0.5391	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		82.9726	82.9726	4.2500e-003		83.0618
Total	0.0673	0.2701	0.8225	1.5500e-003	0.0899	4.3500e-003	0.0943	0.0240	3.9900e-003	0.0280		141.8203	141.8203	4.7000e-003		141.9190

3.2 Demolition - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0803	0.0000	0.0803	0.0122	0.0000	0.0122			0.0000			0.0000
Off-Road	0.1938	4.2913	5.6266	8.5600e-003		0.2772	0.2772		0.2772	0.2772	0.0000	864.6465	864.6465	0.1968		868.7786
Total	0.1938	4.2913	5.6266	8.5600e-003	0.0803	0.2772	0.3575	0.0122	0.2772	0.2893	0.0000	864.6465	864.6465	0.1968		868.7786

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0226	0.2297	0.2834	5.8000e-004	0.0139	3.7600e-003	0.0176	3.7900e-003	3.4500e-003	7.2500e-003		58.8477	58.8477	4.5000e-004		58.8572
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0404	0.5391	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		82.9726	82.9726	4.2500e-003		83.0618
Total	0.0673	0.2701	0.8225	1.5500e-003	0.0899	4.3500e-003	0.0943	0.0240	3.9900e-003	0.0280		141.8203	141.8203	4.7000e-003		141.9190

3.3 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0334	0.0000	1.0334	0.4477	0.0000	0.4477			0.0000			0.0000
Off-Road	1.0271	9.2098	6.7990	8.5600e-003		0.6394	0.6394		0.6051	0.6051		864.6465	864.6465	0.1968		868.7786
Total	1.0271	9.2098	6.7990	8.5600e-003	1.0334	0.6394	1.6728	0.4477	0.6051	1.0528		864.6465	864.6465	0.1968		868.7786

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4103	14.3573	17.7144	0.0363	0.8670	0.2348	1.1018	0.2372	0.2158	0.4530		3,677.9840	3,677.9840	0.0282		3,678.5763
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0404	0.5391	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		82.9726	82.9726	4.2500e-003		83.0618
Total	1.4550	14.3977	18.2535	0.0373	0.9431	0.2354	1.1784	0.2574	0.2163	0.4737		3,760.9565	3,760.9565	0.0325		3,761.6381

3.3 Grading - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4650	0.0000	0.4650	0.2015	0.0000	0.2015			0.0000			0.0000
Off-Road	0.1938	4.2913	5.6266	8.5600e-003		0.2772	0.2772		0.2772	0.2772	0.0000	864.6465	864.6465	0.1968		868.7786
Total	0.1938	4.2913	5.6266	8.5600e-003	0.4650	0.2772	0.7422	0.2015	0.2772	0.4786	0.0000	864.6465	864.6465	0.1968		868.7786

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4103	14.3573	17.7144	0.0363	0.8670	0.2348	1.1018	0.2372	0.2158	0.4530		3,677.9840	3,677.9840	0.0282		3,678.5763
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0404	0.5391	9.7000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		82.9726	82.9726	4.2500e-003		83.0618
Total	1.4550	14.3977	18.2535	0.0373	0.9431	0.2354	1.1784	0.2574	0.2163	0.4737		3,760.9565	3,760.9565	0.0325		3,761.6381

3.4 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1979	0.0000	0.1979	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	1.2673	12.7720	6.5126	8.2300e-003		0.7766	0.7766		0.7145	0.7145		864.9637	864.9637	0.2582		870.3865
Total	1.2673	12.7720	6.5126	8.2300e-003	0.1979	0.7766	0.9745	0.0214	0.7145	0.7359		864.9637	864.9637	0.2582		870.3865

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0224	0.0202	0.2695	4.9000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		41.4863	41.4863	2.1200e-003		41.5309
Total	0.0224	0.0202	0.2695	4.9000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		41.4863	41.4863	2.1200e-003		41.5309

3.4 Site Preparation - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0891	0.0000	0.0891	9.6200e-003	0.0000	9.6200e-003			0.0000			0.0000
Off-Road	0.1993	4.0588	6.1452	8.2300e-003		0.2252	0.2252		0.2252	0.2252	0.0000	864.9637	864.9637	0.2582		870.3865
Total	0.1993	4.0588	6.1452	8.2300e-003	0.0891	0.2252	0.3142	9.6200e-003	0.2252	0.2348	0.0000	864.9637	864.9637	0.2582		870.3865

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0224	0.0202	0.2695	4.9000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		41.4863	41.4863	2.1200e-003		41.5309
Total	0.0224	0.0202	0.2695	4.9000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		41.4863	41.4863	2.1200e-003		41.5309

3.5 Building Construction - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3448	14.1981	7.9372	0.0113		0.8645	0.8645		0.7953	0.7953		1,182.2237	1,182.2237	0.3529		1,189.6355
Total	1.3448	14.1981	7.9372	0.0113		0.8645	0.8645		0.7953	0.7953		1,182.2237	1,182.2237	0.3529		1,189.6355

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4323	2.7587	4.8431	6.3000e-003	0.1762	0.0472	0.2234	0.0502	0.0433	0.0935		634.7096	634.7096	5.4300e-003		634.8237
Worker	0.3400	0.3071	4.0968	7.4000e-003	0.5781	4.4600e-003	0.5826	0.1534	4.0800e-003	0.1574		630.5914	630.5914	0.0323		631.2697
Total	0.7722	3.0658	8.9399	0.0137	0.7544	0.0516	0.8060	0.2035	0.0474	0.2509		1,265.3010	1,265.3010	0.0377		1,266.0934

3.5 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,182.2237	1,182.2237	0.3529		1,189.6355
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,182.2237	1,182.2237	0.3529		1,189.6355

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4323	2.7587	4.8431	6.3000e-003	0.1762	0.0472	0.2234	0.0502	0.0433	0.0935		634.7096	634.7096	5.4300e-003		634.8237
Worker	0.3400	0.3071	4.0968	7.4000e-003	0.5781	4.4600e-003	0.5826	0.1534	4.0800e-003	0.1574		630.5914	630.5914	0.0323		631.2697
Total	0.7722	3.0658	8.9399	0.0137	0.7544	0.0516	0.8060	0.2035	0.0474	0.2509		1,265.3010	1,265.3010	0.0377		1,266.0934

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875
Total	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3625	2.4095	4.2276	6.2800e-003	0.1762	0.0395	0.2157	0.0502	0.0363	0.0864		626.3502	626.3502	4.9300e-003		626.4537
Worker	0.3046	0.2740	3.6675	7.4000e-003	0.5781	4.2500e-003	0.5824	0.1534	3.9000e-003	0.1573		607.5670	607.5670	0.0294		608.1834
Total	0.6671	2.6835	7.8951	0.0137	0.7544	0.0437	0.7981	0.2035	0.0402	0.2437		1,233.9172	1,233.9172	0.0343		1,234.6370

3.5 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3625	2.4095	4.2276	6.2800e-003	0.1762	0.0395	0.2157	0.0502	0.0363	0.0864		626.3502	626.3502	4.9300e-003		626.4537
Worker	0.3046	0.2740	3.6675	7.4000e-003	0.5781	4.2500e-003	0.5824	0.1534	3.9000e-003	0.1573		607.5670	607.5670	0.0294		608.1834
Total	0.6671	2.6835	7.8951	0.0137	0.7544	0.0437	0.7981	0.2035	0.0402	0.2437		1,233.9172	1,233.9172	0.0343		1,234.6370

3.6 Architectural Coating - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.8322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2469	1.5894	1.2622	1.9900e-003		0.1317	0.1317		0.1317	0.1317		188.5702	188.5702	0.0222		189.0371
Total	58.0790	1.5894	1.2622	1.9900e-003		0.1317	0.1317		0.1317	0.1317		188.5702	188.5702	0.0222		189.0371

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362

3.6 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.8322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0398	0.9092	1.2277	1.9900e-003		0.0637	0.0637		0.0637	0.0637	0.0000	188.5702	188.5702	0.0222		189.0371
Total	57.8720	0.9092	1.2277	1.9900e-003		0.0637	0.0637		0.0637	0.0637	0.0000	188.5702	188.5702	0.0222		189.0371

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003		120.0362

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4767	3.0973	17.5438	0.0232	1.4997	0.0429	1.5426	0.4006	0.0393	0.4399		2,123.4049	2,123.4049	0.1094		2,125.7032
Unmitigated	2.4767	3.0973	17.5438	0.0232	1.4997	0.0429	1.5426	0.4006	0.0393	0.4399		2,123.4049	2,123.4049	0.1094		2,125.7032

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	576.16	546.52	265.59	648,730	648,730
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	576.16	546.52	265.59	648,730	648,730

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
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
NaturalGas Unmitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	201.233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Unenclosed 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
Total		2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.201233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Unenclosed 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
Total		2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Unmitigated	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7200e-003	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Total	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7200e-003	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Total	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

2101 Capitol Garage
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	425.00	Space	0.63	170,000.00	0
Strip Mall	13.00	1000sqft	0.30	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage of retail and garage footprint totals 0.933 acres

Construction Phase - All phases based on schedule provided for Building Construction and scaled from 2025 L Street project

Off-road Equipment - Applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Demolition -

Grading - Actual acreage of project used

Construction Off-road Equipment Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
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	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	44.00

tblConstructionPhase	NumDays	100.00	160.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	6/30/2016	4/29/2016
tblConstructionPhase	PhaseStartDate	4/30/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	9/19/2015	9/21/2015
tblConstructionPhase	PhaseStartDate	9/5/2015	9/7/2015
tblConstructionPhase	PhaseStartDate	9/12/2015	9/14/2015
tblGrading	AcresOfGrading	0.00	0.93
tblGrading	AcresOfGrading	2.50	0.93
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LotAcreage	3.82	0.63
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.40
tblOffRoadEquipment	LoadFactor	0.73	0.40

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Mobile	2.3562	3.5145	20.1752	0.0211	1.4997	0.0436	1.5433	0.4006	0.0400	0.4405		1,923.203 1	1,923.203 1	0.1096		1,925.503 6
Total	6.9765	3.5347	20.2385	0.0212	1.4997	0.0453	1.5450	0.4006	0.0417	0.4422		1,946.973 4	1,946.973 4	0.1103	4.3000e-004	1,949.424 0

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Energy	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Mobile	2.3562	3.5145	20.1752	0.0211	1.4997	0.0436	1.5433	0.4006	0.0400	0.4405		1,923.203 1	1,923.203 1	0.1096		1,925.503 6
Total	6.9765	3.5347	20.2385	0.0212	1.4997	0.0453	1.5450	0.4006	0.0417	0.4422		1,946.973 4	1,946.973 4	0.1103	4.3000e-004	1,949.424 0

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/24/2015	9/4/2015	5	10	
2	Grading	Grading	9/7/2015	9/11/2015	5	5	
3	Site Preparation	Site Preparation	9/14/2015	9/18/2015	5	5	
4	Building Construction	Building Construction	9/21/2015	4/29/2016	5	160	
5	Architectural Coating	Architectural Coating	3/1/2016	4/29/2016	5	44	

Acres of Grading (Site Preparation Phase): 0.933

Acres of Grading (Grading Phase): 0.933

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 274,500; Non-Residential Outdoor: 91,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.40
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.40
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	8.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	76.00	30.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	250.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1785	0.0000	0.1785	0.0270	0.0000	0.0270			0.0000			0.0000
Off-Road	1.0271	9.2098	6.7990	8.5600e-003		0.6394	0.6394		0.6051	0.6051		864.6465	864.6465	0.1968		868.7786
Total	1.0271	9.2098	6.7990	8.5600e-003	0.1785	0.6394	0.8179	0.0270	0.6051	0.6321		864.6465	864.6465	0.1968		868.7786

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0283	0.2500	0.3575	5.8000e-004	0.0139	3.7700e-003	0.0176	3.7900e-003	3.4700e-003	7.2600e-003		58.7052	58.7052	4.6000e-004		58.7148
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0394	0.0502	0.4898	8.5000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		72.8616	72.8616	4.2500e-003		72.9508
Total	0.0677	0.3002	0.8473	1.4300e-003	0.0899	4.3600e-003	0.0943	0.0240	4.0100e-003	0.0280		131.5668	131.5668	4.7100e-003		131.6656

3.2 Demolition - 2015**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0803	0.0000	0.0803	0.0122	0.0000	0.0122			0.0000			0.0000
Off-Road	0.1938	4.2913	5.6266	8.5600e-003		0.2772	0.2772		0.2772	0.2772	0.0000	864.6465	864.6465	0.1968		868.7786
Total	0.1938	4.2913	5.6266	8.5600e-003	0.0803	0.2772	0.3575	0.0122	0.2772	0.2893	0.0000	864.6465	864.6465	0.1968		868.7786

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0283	0.2500	0.3575	5.8000e-004	0.0139	3.7700e-003	0.0176	3.7900e-003	3.4700e-003	7.2600e-003		58.7052	58.7052	4.6000e-004		58.7148
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0394	0.0502	0.4898	8.5000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		72.8616	72.8616	4.2500e-003		72.9508
Total	0.0677	0.3002	0.8473	1.4300e-003	0.0899	4.3600e-003	0.0943	0.0240	4.0100e-003	0.0280		131.5668	131.5668	4.7100e-003		131.6656

3.3 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0334	0.0000	1.0334	0.4477	0.0000	0.4477			0.0000			0.0000
Off-Road	1.0271	9.2098	6.7990	8.5600e-003		0.6394	0.6394		0.6051	0.6051		864.6465	864.6465	0.1968		868.7786
Total	1.0271	9.2098	6.7990	8.5600e-003	1.0334	0.6394	1.6728	0.4477	0.6051	1.0528		864.6465	864.6465	0.1968		868.7786

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7704	15.6244	22.3421	0.0363	0.8670	0.2357	1.1027	0.2372	0.2166	0.4538		3,669.0745	3,669.0745	0.0286		3,669.6746
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0394	0.0502	0.4898	8.5000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		72.8616	72.8616	4.2500e-003		72.9508
Total	1.8097	15.6746	22.8319	0.0371	0.9431	0.2363	1.1794	0.2574	0.2172	0.4745		3,741.9361	3,741.9361	0.0328		3,742.6254

3.3 Grading - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4650	0.0000	0.4650	0.2015	0.0000	0.2015			0.0000			0.0000
Off-Road	0.1938	4.2913	5.6266	8.5600e-003		0.2772	0.2772		0.2772	0.2772	0.0000	864.6465	864.6465	0.1968		868.7786
Total	0.1938	4.2913	5.6266	8.5600e-003	0.4650	0.2772	0.7422	0.2015	0.2772	0.4786	0.0000	864.6465	864.6465	0.1968		868.7786

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7704	15.6244	22.3421	0.0363	0.8670	0.2357	1.1027	0.2372	0.2166	0.4538		3,669.0745	3,669.0745	0.0286		3,669.6746
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0394	0.0502	0.4898	8.5000e-004	0.0761	5.9000e-004	0.0767	0.0202	5.4000e-004	0.0207		72.8616	72.8616	4.2500e-003		72.9508
Total	1.8097	15.6746	22.8319	0.0371	0.9431	0.2363	1.1794	0.2574	0.2172	0.4745		3,741.9361	3,741.9361	0.0328		3,742.6254

3.4 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1979	0.0000	0.1979	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	1.2673	12.7720	6.5126	8.2300e-003		0.7766	0.7766		0.7145	0.7145		864.9637	864.9637	0.2582		870.3865
Total	1.2673	12.7720	6.5126	8.2300e-003	0.1979	0.7766	0.9745	0.0214	0.7145	0.7359		864.9637	864.9637	0.2582		870.3865

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	0.0251	0.2449	4.3000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		36.4308	36.4308	2.1200e-003		36.4754
Total	0.0197	0.0251	0.2449	4.3000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		36.4308	36.4308	2.1200e-003		36.4754

3.4 Site Preparation - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0891	0.0000	0.0891	9.6200e-003	0.0000	9.6200e-003			0.0000			0.0000
Off-Road	0.1993	4.0588	6.1452	8.2300e-003		0.2252	0.2252		0.2252	0.2252	0.0000	864.9637	864.9637	0.2582		870.3865
Total	0.1993	4.0588	6.1452	8.2300e-003	0.0891	0.2252	0.3142	9.6200e-003	0.2252	0.2348	0.0000	864.9637	864.9637	0.2582		870.3865

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	0.0251	0.2449	4.3000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		36.4308	36.4308	2.1200e-003		36.4754
Total	0.0197	0.0251	0.2449	4.3000e-004	0.0380	2.9000e-004	0.0383	0.0101	2.7000e-004	0.0104		36.4308	36.4308	2.1200e-003		36.4754

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3448	14.1981	7.9372	0.0113		0.8645	0.8645		0.7953	0.7953		1,182.2237	1,182.2237	0.3529		1,189.6355
Total	1.3448	14.1981	7.9372	0.0113		0.8645	0.8645		0.7953	0.7953		1,182.2237	1,182.2237	0.3529		1,189.6355

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5737	2.9601	6.7578	6.2800e-003	0.1762	0.0479	0.2241	0.0502	0.0440	0.0941		629.2142	629.2142	5.5800e-003		629.3314
Worker	0.2990	0.3814	3.7224	6.4900e-003	0.5781	4.4600e-003	0.5826	0.1534	4.0800e-003	0.1574		553.7478	553.7478	0.0323		554.4261
Total	0.8728	3.3415	10.4803	0.0128	0.7544	0.0523	0.8067	0.2035	0.0480	0.2516		1,182.9620	1,182.9620	0.0379		1,183.7575

3.5 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,182.2237	1,182.2237	0.3529		1,189.6355
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,182.2237	1,182.2237	0.3529		1,189.6355

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5737	2.9601	6.7578	6.2800e-003	0.1762	0.0479	0.2241	0.0502	0.0440	0.0941		629.2142	629.2142	5.5800e-003		629.3314
Worker	0.2990	0.3814	3.7224	6.4900e-003	0.5781	4.4600e-003	0.5826	0.1534	4.0800e-003	0.1574		553.7478	553.7478	0.0323		554.4261
Total	0.8728	3.3415	10.4803	0.0128	0.7544	0.0523	0.8067	0.2035	0.0480	0.2516		1,182.9620	1,182.9620	0.0379		1,183.7575

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875
Total	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4771	2.5834	6.1716	6.2500e-003	0.1762	0.0401	0.2163	0.0502	0.0368	0.0870		620.8930	620.8930	5.0800e-003		620.9996
Worker	0.2657	0.3400	3.3106	6.4900e-003	0.5781	4.2500e-003	0.5824	0.1534	3.9000e-003	0.1573		533.4365	533.4365	0.0294		534.0529
Total	0.7428	2.9233	9.4822	0.0127	0.7544	0.0443	0.7987	0.2035	0.0407	0.2442		1,154.3295	1,154.3295	0.0344		1,155.0525

3.5 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4771	2.5834	6.1716	6.2500e-003	0.1762	0.0401	0.2163	0.0502	0.0368	0.0870		620.8930	620.8930	5.0800e-003		620.9996
Worker	0.2657	0.3400	3.3106	6.4900e-003	0.5781	4.2500e-003	0.5824	0.1534	3.9000e-003	0.1573		533.4365	533.4365	0.0294		534.0529
Total	0.7428	2.9233	9.4822	0.0127	0.7544	0.0443	0.7987	0.2035	0.0407	0.2442		1,154.3295	1,154.3295	0.0344		1,155.0525

3.6 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.8322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2469	1.5894	1.2622	1.9900e-003		0.1317	0.1317		0.1317	0.1317		188.5702	188.5702	0.0222		189.0371
Total	58.0790	1.5894	1.2622	1.9900e-003		0.1317	0.1317		0.1317	0.1317		188.5702	188.5702	0.0222		189.0371

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052

3.6 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.8322					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0398	0.9092	1.2277	1.9900e-003		0.0637	0.0637		0.0637	0.0637	0.0000	188.5702	188.5702	0.0222		189.0371
Total	57.8720	0.9092	1.2277	1.9900e-003		0.0637	0.0637		0.0637	0.0637	0.0000	188.5702	188.5702	0.0222		189.0371

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3562	3.5145	20.1752	0.0211	1.4997	0.0436	1.5433	0.4006	0.0400	0.4405		1,923.2031	1,923.2031	0.1096		1,925.5036
Unmitigated	2.3562	3.5145	20.1752	0.0211	1.4997	0.0436	1.5433	0.4006	0.0400	0.4405		1,923.2031	1,923.2031	0.1096		1,925.5036

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	576.16	546.52	265.59	648,730	648,730
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	576.16	546.52	265.59	648,730	648,730

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
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
NaturalGas Unmitigated	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	201.233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Unenclosed 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
Total		2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.201233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Unenclosed 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
Total		2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Unmitigated	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7200e-003	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Total	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9162					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7200e-003	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019
Total	4.6181	4.6000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0959	0.0959	2.9000e-004		0.1019

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

**2101 Capitol Garage
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	425.00	Space	0.63	170,000.00	0
Strip Mall	13.00	1000sqft	0.30	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Square footage of retail and garage footprint totals 0.933 acres

Construction Phase - All phases based on schedule provided for Building Construction and scaled from 2025 L Street project

Off-road Equipment - Applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Off-road Equipment - Updated HPs to match Table 3.3 in Appendix D and applied 0.67 factor to load factors.

Demolition -

Grading - Actual acreage of project used

Construction Off-road Equipment Mitigation - Mitigation

Table Name	Column Name	Default Value	New Value
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	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	44.00

tblConstructionPhase	NumDays	100.00	160.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	6/30/2016	4/29/2016
tblConstructionPhase	PhaseStartDate	4/30/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	9/19/2015	9/21/2015
tblConstructionPhase	PhaseStartDate	9/5/2015	9/7/2015
tblConstructionPhase	PhaseStartDate	9/12/2015	9/14/2015
tblGrading	AcresOfGrading	0.00	0.93
tblGrading	AcresOfGrading	2.50	0.93
tblGrading	MaterialExported	0.00	2,000.00
tblLandUse	LotAcreage	3.82	0.63
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32
tblOffRoadEquipment	LoadFactor	0.73	0.40
tblOffRoadEquipment	LoadFactor	0.73	0.40

2.0 Emissions Summary

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	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116
Energy	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	177.4308	177.4308	8.6000e-003	1.8400e-003	178.1804
Mobile	0.3641	0.5542	2.9290	3.5800e-003	0.2414	7.1900e-003	0.2486	0.0647	6.5900e-003	0.0713	0.0000	297.0174	297.0174	0.0165	0.0000	297.3646
Waste						0.0000	0.0000		0.0000	0.0000	2.7708	0.0000	2.7708	0.1638	0.0000	6.2096
Water						0.0000	0.0000		0.0000	0.0000	0.3407	1.8378	2.1785	1.2600e-003	7.6000e-004	2.4405
Total	1.2070	0.5579	2.9379	3.6000e-003	0.2414	7.4800e-003	0.2489	0.0647	6.8800e-003	0.0715	3.1115	476.2969	479.4084	0.1902	2.6000e-003	484.2066

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116
Energy	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	177.4308	177.4308	8.6000e-003	1.8400e-003	178.1804
Mobile	0.3641	0.5542	2.9290	3.5800e-003	0.2414	7.1900e-003	0.2486	0.0647	6.5900e-003	0.0713	0.0000	297.0174	297.0174	0.0165	0.0000	297.3646
Waste						0.0000	0.0000		0.0000	0.0000	2.7708	0.0000	2.7708	0.1638	0.0000	6.2096
Water						0.0000	0.0000		0.0000	0.0000	0.3407	1.8378	2.1785	1.2700e-003	7.6000e-004	2.4409
Total	1.2070	0.5579	2.9379	3.6000e-003	0.2414	7.4800e-003	0.2489	0.0647	6.8800e-003	0.0715	3.1115	476.2969	479.4084	0.1902	2.6000e-003	484.2070

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/24/2015	9/4/2015	5	10	
2	Grading	Grading	9/7/2015	9/11/2015	5	5	
3	Site Preparation	Site Preparation	9/14/2015	9/18/2015	5	5	
4	Building Construction	Building Construction	9/21/2015	4/29/2016	5	160	
5	Architectural Coating	Architectural Coating	3/1/2016	4/29/2016	5	44	

Acres of Grading (Site Preparation Phase): 0.933

Acres of Grading (Grading Phase): 0.933

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 274,500; Non-Residential Outdoor: 91,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.40
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.40
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	8.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	76.00	30.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	250.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					8.9000e-004	0.0000	8.9000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.0461	0.0340	4.0000e-005		3.2000e-003	3.2000e-003		3.0300e-003	3.0300e-003	0.0000	3.9220	3.9220	8.9000e-004	0.0000	3.9407
Total	5.1400e-003	0.0461	0.0340	4.0000e-005	8.9000e-004	3.2000e-003	4.0900e-003	1.4000e-004	3.0300e-003	3.1700e-003	0.0000	3.9220	3.9220	8.9000e-004	0.0000	3.9407

3.2 Demolition - 2015

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	1.2000e-004	1.2200e-003	1.5400e-003	0.0000	7.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2667	0.2667	0.0000	0.0000	0.2667
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.2000e-004	2.3500e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3402	0.3402	2.0000e-005	0.0000	0.3406
Total	3.1000e-004	1.4400e-003	3.8900e-003	0.0000	4.4000e-004	2.0000e-005	4.6000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	0.6069	0.6069	2.0000e-005	0.0000	0.6073

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					4.0000e-004	0.0000	4.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7000e-004	0.0215	0.0281	4.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	3.9220	3.9220	8.9000e-004	0.0000	3.9407
Total	9.7000e-004	0.0215	0.0281	4.0000e-005	4.0000e-004	1.3900e-003	1.7900e-003	6.0000e-005	1.3900e-003	1.4500e-003	0.0000	3.9220	3.9220	8.9000e-004	0.0000	3.9407

3.2 Demolition - 2015

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	1.2000e-004	1.2200e-003	1.5400e-003	0.0000	7.0000e-005	2.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2667	0.2667	0.0000	0.0000	0.2667
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.2000e-004	2.3500e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3402	0.3402	2.0000e-005	0.0000	0.3406
Total	3.1000e-004	1.4400e-003	3.8900e-003	0.0000	4.4000e-004	2.0000e-005	4.6000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	0.6069	0.6069	2.0000e-005	0.0000	0.6073

3.3 Grading - 2015

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					2.5800e-003	0.0000	2.5800e-003	1.1200e-003	0.0000	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5700e-003	0.0230	0.0170	2.0000e-005		1.6000e-003	1.6000e-003		1.5100e-003	1.5100e-003	0.0000	1.9610	1.9610	4.5000e-004	0.0000	1.9704
Total	2.5700e-003	0.0230	0.0170	2.0000e-005	2.5800e-003	1.6000e-003	4.1800e-003	1.1200e-003	1.5100e-003	2.6300e-003	0.0000	1.9610	1.9610	4.5000e-004	0.0000	1.9704

3.3 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8300e-003	0.0382	0.0480	9.0000e-005	2.1000e-003	5.9000e-004	2.6900e-003	5.8000e-004	5.4000e-004	1.1200e-003	0.0000	8.3330	8.3330	6.0000e-005	0.0000	8.3344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.1000e-004	1.1700e-003	0.0000	1.8000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1701	0.1701	1.0000e-005	0.0000	0.1703
Total	3.9200e-003	0.0383	0.0492	9.0000e-005	2.2800e-003	5.9000e-004	2.8800e-003	6.3000e-004	5.4000e-004	1.1700e-003	0.0000	8.5031	8.5031	7.0000e-005	0.0000	8.5047

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					1.1600e-003	0.0000	1.1600e-003	5.0000e-004	0.0000	5.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	0.0107	0.0141	2.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.9610	1.9610	4.5000e-004	0.0000	1.9704
Total	4.8000e-004	0.0107	0.0141	2.0000e-005	1.1600e-003	6.9000e-004	1.8500e-003	5.0000e-004	6.9000e-004	1.1900e-003	0.0000	1.9610	1.9610	4.5000e-004	0.0000	1.9704

3.3 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8300e-003	0.0382	0.0480	9.0000e-005	2.1000e-003	5.9000e-004	2.6900e-003	5.8000e-004	5.4000e-004	1.1200e-003	0.0000	8.3330	8.3330	6.0000e-005	0.0000	8.3344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.1000e-004	1.1700e-003	0.0000	1.8000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1701	0.1701	1.0000e-005	0.0000	0.1703
Total	3.9200e-003	0.0383	0.0492	9.0000e-005	2.2800e-003	5.9000e-004	2.8800e-003	6.3000e-004	5.4000e-004	1.1700e-003	0.0000	8.5031	8.5031	7.0000e-005	0.0000	8.5047

3.4 Site Preparation - 2015

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					4.9000e-004	0.0000	4.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1700e-003	0.0319	0.0163	2.0000e-005		1.9400e-003	1.9400e-003		1.7900e-003	1.7900e-003	0.0000	1.9617	1.9617	5.9000e-004	0.0000	1.9740
Total	3.1700e-003	0.0319	0.0163	2.0000e-005	4.9000e-004	1.9400e-003	2.4300e-003	5.0000e-005	1.7900e-003	1.8400e-003	0.0000	1.9617	1.9617	5.9000e-004	0.0000	1.9740

3.4 Site Preparation - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	6.0000e-005	5.9000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0852
Total	5.0000e-005	6.0000e-005	5.9000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0852

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2000e-004	0.0000	2.2000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-004	0.0102	0.0154	2.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	1.9617	1.9617	5.9000e-004	0.0000	1.9740
Total	5.0000e-004	0.0102	0.0154	2.0000e-005	2.2000e-004	5.6000e-004	7.8000e-004	2.0000e-005	5.6000e-004	5.8000e-004	0.0000	1.9617	1.9617	5.9000e-004	0.0000	1.9740

3.4 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	6.0000e-005	5.9000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0852
Total	5.0000e-005	6.0000e-005	5.9000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0852

3.5 Building Construction - 2015

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	0.0498	0.5253	0.2937	4.2000e-004		0.0320	0.0320		0.0294	0.0294	0.0000	39.6823	39.6823	0.0119	0.0000	39.9311
Total	0.0498	0.5253	0.2937	4.2000e-004		0.0320	0.0320		0.0294	0.0294	0.0000	39.6823	39.6823	0.0119	0.0000	39.9311

3.5 Building Construction - 2015

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	0.0000
Vendor	0.0177	0.1077	0.2040	2.3000e-004	6.3300e-003	1.7600e-003	8.0900e-003	1.8100e-003	1.6100e-003	3.4200e-003	0.0000	21.2271	21.2271	1.8000e-004	0.0000	21.2310	
Worker	0.0106	0.0126	0.1322	2.5000e-004	0.0207	1.7000e-004	0.0208	5.4900e-003	1.5000e-004	5.6400e-003	0.0000	19.1324	19.1324	1.0800e-003	0.0000	19.1552	
Total	0.0283	0.1203	0.3362	4.8000e-004	0.0270	1.9300e-003	0.0289	7.3000e-003	1.7600e-003	9.0600e-003	0.0000	40.3595	40.3595	1.2600e-003	0.0000	40.3862	

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	0.0102	0.2126	0.2931	4.2000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	39.6823	39.6823	0.0119	0.0000	39.9311	
Total	0.0102	0.2126	0.2931	4.2000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	39.6823	39.6823	0.0119	0.0000	39.9311	

3.5 Building Construction - 2015

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	0.0177	0.1077	0.2040	2.3000e-004	6.3300e-003	1.7600e-003	8.0900e-003	1.8100e-003	1.6100e-003	3.4200e-003	0.0000	21.2271	21.2271	1.8000e-004	0.0000	21.2310
Worker	0.0106	0.0126	0.1322	2.5000e-004	0.0207	1.7000e-004	0.0208	5.4900e-003	1.5000e-004	5.6400e-003	0.0000	19.1324	19.1324	1.0800e-003	0.0000	19.1552
Total	0.0283	0.1203	0.3362	4.8000e-004	0.0270	1.9300e-003	0.0289	7.3000e-003	1.7600e-003	9.0600e-003	0.0000	40.3595	40.3595	1.2600e-003	0.0000	40.3862

3.5 Building Construction - 2016

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	0.0549	0.5776	0.3372	4.8000e-004		0.0348	0.0348		0.0321	0.0321	0.0000	45.6163	45.6163	0.0138	0.0000	45.9052
Total	0.0549	0.5776	0.3372	4.8000e-004		0.0348	0.0348		0.0321	0.0321	0.0000	45.6163	45.6163	0.0138	0.0000	45.9052

3.5 Building Construction - 2016

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	0.0172	0.1092	0.2126	2.7000e-004	7.3600e-003	1.7100e-003	9.0700e-003	2.1000e-003	1.5700e-003	3.6700e-003	0.0000	24.3439	24.3439	1.9000e-004	0.0000	24.3479
Worker	0.0110	0.0131	0.1370	2.9000e-004	0.0240	1.8000e-004	0.0242	6.3800e-003	1.7000e-004	6.5500e-003	0.0000	21.4203	21.4203	1.1400e-003	0.0000	21.4443
Total	0.0282	0.1223	0.3496	5.6000e-004	0.0314	1.8900e-003	0.0333	8.4800e-003	1.7400e-003	0.0102	0.0000	45.7641	45.7641	1.3300e-003	0.0000	45.7923

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	0.0119	0.2470	0.3406	4.8000e-004		0.0139	0.0139		0.0139	0.0139	0.0000	45.6162	45.6162	0.0138	0.0000	45.9052
Total	0.0119	0.2470	0.3406	4.8000e-004		0.0139	0.0139		0.0139	0.0139	0.0000	45.6162	45.6162	0.0138	0.0000	45.9052

3.5 Building Construction - 2016

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	0.0172	0.1092	0.2126	2.7000e-004	7.3600e-003	1.7100e-003	9.0700e-003	2.1000e-003	1.5700e-003	3.6700e-003	0.0000	24.3439	24.3439	1.9000e-004	0.0000	24.3479
Worker	0.0110	0.0131	0.1370	2.9000e-004	0.0240	1.8000e-004	0.0242	6.3800e-003	1.7000e-004	6.5500e-003	0.0000	21.4203	21.4203	1.1400e-003	0.0000	21.4443
Total	0.0282	0.1223	0.3496	5.6000e-004	0.0314	1.8900e-003	0.0333	8.4800e-003	1.7400e-003	0.0102	0.0000	45.7641	45.7641	1.3300e-003	0.0000	45.7923

3.6 Architectural Coating - 2016

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	1.2723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4300e-003	0.0350	0.0278	4.0000e-005		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	3.7635	3.7635	4.4000e-004	0.0000	3.7728
Total	1.2777	0.0350	0.0278	4.0000e-005		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	3.7635	3.7635	4.4000e-004	0.0000	3.7728

3.6 Architectural Coating - 2016

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	1.1100e-003	1.3200e-003	0.0138	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1630	2.1630	1.2000e-004	0.0000	2.1654
Total	1.1100e-003	1.3200e-003	0.0138	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1630	2.1630	1.2000e-004	0.0000	2.1654

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	1.2723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8000e-004	0.0200	0.0270	4.0000e-005		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	3.7635	3.7635	4.4000e-004	0.0000	3.7728
Total	1.2732	0.0200	0.0270	4.0000e-005		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	3.7635	3.7635	4.4000e-004	0.0000	3.7728

3.6 Architectural Coating - 2016

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	1.1100e-003	1.3200e-003	0.0138	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1630	2.1630	1.2000e-004	0.0000	2.1654
Total	1.1100e-003	1.3200e-003	0.0138	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1630	2.1630	1.2000e-004	0.0000	2.1654

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	0.3641	0.5542	2.9290	3.5800e-003	0.2414	7.1900e-003	0.2486	0.0647	6.5900e-003	0.0713	0.0000	297.0174	297.0174	0.0165	0.0000	297.3646
Unmitigated	0.3641	0.5542	2.9290	3.5800e-003	0.2414	7.1900e-003	0.2486	0.0647	6.5900e-003	0.0713	0.0000	297.0174	297.0174	0.0165	0.0000	297.3646

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	576.16	546.52	265.59	648,730	648,730
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	576.16	546.52	265.59	648,730	648,730

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
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

4.4 Fleet Mix

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	173.5112	173.5112	8.5200e-003	1.7600e-003	174.2370
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	173.5112	173.5112	8.5200e-003	1.7600e-003	174.2370
NaturalGas Mitigated	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434
NaturalGas Unmitigated	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434

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					
Strip Mall	73450	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434
Unenclosed 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
Total		4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	73450	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434
Unenclosed 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
Total		4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	168610	45.1470	2.2200e-003	4.6000e-004	45.3359
Unenclosed Parking with Elevator	479400	128.3642	6.3100e-003	1.3000e-003	128.9011
Total		173.5112	8.5300e-003	1.7600e-003	174.2370

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	168610	45.1470	2.2200e-003	4.6000e-004	45.3359
Unenclosed Parking with Elevator	479400	128.3642	6.3100e-003	1.3000e-003	128.9011
Total		173.5112	8.5300e-003	1.7600e-003	174.2370

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	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116
Unmitigated	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116

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	0.1272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.9000e-004	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116
Total	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116

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	0.1272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.9000e-004	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116
Total	0.8425	6.0000e-005	5.8400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0109	0.0109	3.0000e-005	0.0000	0.0116

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.1785	1.2700e-003	7.6000e-004	2.4409
Unmitigated	2.1785	1.2600e-003	7.6000e-004	2.4405

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.962943 / 0.590191	2.1785	1.2600e-003	7.6000e-004	2.4405
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.1785	1.2600e-003	7.6000e-004	2.4405

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.962943 / 0.590191	2.1785	1.2700e-003	7.6000e-004	2.4409
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.1785	1.2700e-003	7.6000e-004	2.4409

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.7708	0.1638	0.0000	6.2096
Unmitigated	2.7708	0.1638	0.0000	6.2096

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	13.65	2.7708	0.1638	0.0000	6.2096
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		2.7708	0.1638	0.0000	6.2096

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	13.65	2.7708	0.1638	0.0000	6.2096
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		2.7708	0.1638	0.0000	6.2096

9.0 Operational Offroad

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

L Street Market
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	333.00	Space	0.00	133,200.00	0
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	254
Supermarket	47.31	1000sqft	0.00	47,313.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	111.00
tblConstructionPhase	NumDays	200.00	396.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	PhaseEndDate	7/16/2018	2/9/2018
tblConstructionPhase	PhaseEndDate	2/16/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	2/10/2018	9/8/2017
tblConstructionPhase	PhaseStartDate	8/12/2016	8/5/2016
tblConstructionPhase	PhaseStartDate	6/4/2016	6/6/2016
tblGrading	AcresOfGrading	1.88	1.19
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	47,310.00	47,313.00
tblLandUse	LotAcreage	3.00	0.00
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	0.00
tblLandUse	Population	376.00	254.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32

tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblTripsAndVMT	HaulingTripNumber	171.00	230.00
tblTripsAndVMT	HaulingTripNumber	3,563.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,425.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	173.00	117.00
tblTripsAndVMT	WorkerTripNumber	35.00	23.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	3.5202	29.6683	26.5239	0.0408	3.5122	1.6129	5.1251	1.5029	1.4838	2.9867	0.0000	3,939.0966	3,939.0966	0.6651	0.0000	3,953.0637
2017	40.8890	17.5833	20.6638	0.0362	1.3294	0.9164	2.2458	0.3578	0.8523	1.2101	0.0000	3,337.0724	3,337.0724	0.4286	0.0000	3,346.0727
2018	40.5526	15.2587	19.0260	0.0362	1.3293	0.7648	2.0941	0.3578	0.7117	1.0694	0.0000	3,260.5316	3,260.5316	0.4223	0.0000	3,269.3990
Total	84.9617	62.5103	66.2137	0.1132	6.1709	3.2941	9.4650	2.2184	3.0477	5.2661	0.0000	10,536.7006	10,536.7006	1.5160	0.0000	10,568.5354

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.5078	13.8580	26.2957	0.0408	2.2363	0.6143	2.8506	0.8531	0.6089	1.4620	0.0000	3,939.0966	3,939.0966	0.6651	0.0000	3,953.0637
2017	39.7944	10.3019	20.8702	0.0362	1.3294	0.4439	1.7733	0.3578	0.4393	0.7971	0.0000	3,337.0724	3,337.0724	0.4286	0.0000	3,346.0727
2018	39.6637	9.9416	19.5540	0.0362	1.3293	0.4397	1.7690	0.3578	0.4355	0.7932	0.0000	3,260.5316	3,260.5316	0.4223	0.0000	3,269.3990
Total	80.9660	34.1015	66.7199	0.1132	4.8950	1.4979	6.3929	1.5686	1.4836	3.0523	0.0000	10,536.7006	10,536.7006	1.5160	0.0000	10,568.5354

	ROG	NOx	CO	SO2	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	4.70	45.45	-0.76	0.00	20.68	54.53	32.46	29.29	51.32	42.04	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Energy	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
Mobile	39.4578	45.1693	259.7681	0.3259	20.7874	0.6100	21.3974	5.5523	0.5588	6.1110		29,755.5594	29,755.5594	1.5805		29,788.7507
Total	47.9803	45.9996	272.1568	0.3308	20.7874	0.7275	21.5149	5.5523	0.6763	6.2285	0.0000	30,630.1958	30,630.1958	1.6195	0.0157	30,669.0562

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Energy	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
Mobile	39.4578	45.1693	259.7681	0.3259	20.7874	0.6100	21.3974	5.5523	0.5588	6.1110		29,755.5594	29,755.5594	1.5805		29,788.7507
Total	47.9803	45.9996	272.1568	0.3308	20.7874	0.7275	21.5149	5.5523	0.6763	6.2285	0.0000	30,630.1958	30,630.1958	1.6195	0.0157	30,669.0562

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/2/2016	6/3/2016	5	25	
2	Grading	Grading	6/6/2016	8/4/2016	5	44	
3	Site Preparation	Site Preparation	8/5/2016	8/11/2016	5	5	
4	Building Construction	Building Construction	8/5/2016	2/9/2018	5	396	
5	Architectural Coating	Architectural Coating	9/8/2017	2/9/2018	5	111	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.19

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 270,770; Non-Residential Outdoor: 90,257 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.49
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	230.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	1,425.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	45.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1075	0.0000	1.1075	0.1677	0.0000	0.1677			0.0000			0.0000
Off-Road	1.0463	9.3118	7.1722	9.3700e-003		0.6370	0.6370		0.6047	0.6047		935.2689	935.2689	0.2006		939.4818
Total	1.0463	9.3118	7.1722	9.3700e-003	1.1075	0.6370	1.7445	0.1677	0.6047	0.7724		935.2689	935.2689	0.2006		939.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2190	2.2627	2.8869	6.6500e-003	0.1595	0.0352	0.1946	0.0436	0.0323	0.0759		667.2676	667.2676	4.6600e-003		667.3654
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.2591	2.2987	3.3694	7.6200e-003	0.2356	0.0357	0.2713	0.0638	0.0328	0.0966		747.2106	747.2106	8.5200e-003		747.3895

3.2 Demolition - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4984	0.0000	0.4984	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	0.2100	4.6620	6.1272	9.3700e-003		0.3031	0.3031		0.3031	0.3031	0.0000	935.2689	935.2689	0.2006		939.4818
Total	0.2100	4.6620	6.1272	9.3700e-003	0.4984	0.3031	0.8015	0.0755	0.3031	0.3786	0.0000	935.2689	935.2689	0.2006		939.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2190	2.2627	2.8869	6.6500e-003	0.1595	0.0352	0.1946	0.0436	0.0323	0.0759		667.2676	667.2676	4.6600e-003		667.3654
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.2591	2.2987	3.3694	7.6200e-003	0.2356	0.0357	0.2713	0.0638	0.0328	0.0966		747.2106	747.2106	8.5200e-003		747.3895

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2482	0.0000	0.2482	0.0704	0.0000	0.0704			0.0000			0.0000
Off-Road	1.0463	9.3118	7.1722	9.3700e-003		0.6370	0.6370		0.6047	0.6047		935.2689	935.2689	0.2006		939.4818
Total	1.0463	9.3118	7.1722	9.3700e-003	0.2482	0.6370	0.8852	0.0704	0.6047	0.6751		935.2689	935.2689	0.2006		939.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7710	7.9651	10.1625	0.0234	0.5614	0.1238	0.6852	0.1536	0.1137	0.2673		2,348.9534	2,348.9534	0.0164		2,349.2977
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.8111	8.0012	10.6450	0.0244	0.6375	0.1243	0.7618	0.1738	0.1143	0.2880		2,428.8964	2,428.8964	0.0203		2,429.3218

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1117	0.0000	0.1117	0.0317	0.0000	0.0317			0.0000			0.0000
Off-Road	0.2100	4.6620	6.1272	9.3700e-003		0.3031	0.3031		0.3031	0.3031	0.0000	935.2689	935.2689	0.2006		939.4818
Total	0.2100	4.6620	6.1272	9.3700e-003	0.1117	0.3031	0.4148	0.0317	0.3031	0.3348	0.0000	935.2689	935.2689	0.2006		939.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7710	7.9651	10.1625	0.0234	0.5614	0.1238	0.6852	0.1536	0.1137	0.2673		2,348.9534	2,348.9534	0.0164		2,349.2977
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0361	0.4826	9.7000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		79.9430	79.9430	3.8600e-003		80.0241
Total	0.8111	8.0012	10.6450	0.0244	0.6375	0.1243	0.7618	0.1738	0.1143	0.2880		2,428.8964	2,428.8964	0.0203		2,429.3218

3.4 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3198	0.0000	2.3198	1.1815	0.0000	1.1815			0.0000			0.0000
Off-Road	1.2118	12.1809	6.4531	8.2200e-003		0.7367	0.7367		0.6778	0.6778		854.8862	854.8862	0.2579		860.3013
Total	1.2118	12.1809	6.4531	8.2200e-003	2.3198	0.7367	3.0565	1.1815	0.6778	1.8592		854.8862	854.8862	0.2579		860.3013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0200	0.0180	0.2413	4.9000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		39.9715	39.9715	1.9300e-003		40.0121
Total	0.0200	0.0180	0.2413	4.9000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		39.9715	39.9715	1.9300e-003		40.0121

3.4 Site Preparation - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0439	0.0000	1.0439	0.5317	0.0000	0.5317			0.0000			0.0000
Off-Road	0.1993	4.0588	6.1452	8.2200e-003		0.2252	0.2252		0.2252	0.2252	0.0000	854.8862	854.8862	0.2579		860.3013
Total	0.1993	4.0588	6.1452	8.2200e-003	1.0439	0.2252	1.2691	0.5317	0.2252	0.7568	0.0000	854.8862	854.8862	0.2579		860.3013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0200	0.0180	0.2413	4.9000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		39.9715	39.9715	1.9300e-003		40.0121
Total	0.0200	0.0180	0.2413	4.9000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		39.9715	39.9715	1.9300e-003		40.0121

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875
Total	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5437	3.6143	6.3414	9.4100e-003	0.2643	0.0592	0.3236	0.0753	0.0544	0.1297		939.5253	939.5253	7.3900e-003		939.6805
Worker	0.4689	0.4218	5.6461	0.0114	0.8900	6.5400e-003	0.8966	0.2361	6.0100e-003	0.2421		935.3334	935.3334	0.0452		936.2823
Total	1.0126	4.0360	11.9875	0.0208	1.1544	0.0658	1.2201	0.3113	0.0604	0.3717		1,874.8587	1,874.8587	0.0526		1,875.9628

3.5 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5437	3.6143	6.3414	9.4100e-003	0.2643	0.0592	0.3236	0.0753	0.0544	0.1297		939.5253	939.5253	7.3900e-003		939.6805
Worker	0.4689	0.4218	5.6461	0.0114	0.8900	6.5400e-003	0.8966	0.2361	6.0100e-003	0.2421		935.3334	935.3334	0.0452		936.2823
Total	1.0126	4.0360	11.9875	0.0208	1.1544	0.0658	1.2201	0.3113	0.0604	0.3717		1,874.8587	1,874.8587	0.0526		1,875.9628

3.5 Building Construction - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1886	12.4745	7.6916	0.0112		0.7434	0.7434		0.6839	0.6839		1,150.667 3	1,150.667 3	0.3526		1,158.071 1
Total	1.1886	12.4745	7.6916	0.0112		0.7434	0.7434		0.6839	0.6839		1,150.667 3	1,150.667 3	0.3526		1,158.071 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4688	3.2009	5.6787	9.3900e-003	0.2644	0.0499	0.3143	0.0753	0.0459	0.1211		923.7143	923.7143	6.8900e-003		923.8590
Worker	0.4181	0.3771	5.0545	0.0114	0.8900	6.3200e-003	0.8963	0.2361	5.8300e-003	0.2419		898.4420	898.4420	0.0412		899.3076
Total	0.8869	3.5780	10.7332	0.0208	1.1544	0.0563	1.2107	0.3114	0.0517	0.3631		1,822.156 3	1,822.156 3	0.0481		1,823.166 6

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,150.667 3	1,150.667 3	0.3526		1,158.071 1
Total	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,150.667 3	1,150.667 3	0.3526		1,158.071 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4688	3.2009	5.6787	9.3900e-003	0.2644	0.0499	0.3143	0.0753	0.0459	0.1211		923.7143	923.7143	6.8900e-003		923.8590
Worker	0.4181	0.3771	5.0545	0.0114	0.8900	6.3200e-003	0.8963	0.2361	5.8300e-003	0.2419		898.4420	898.4420	0.0412		899.3076
Total	0.8869	3.5780	10.7332	0.0208	1.1544	0.0563	1.2107	0.3114	0.0517	0.3631		1,822.156 3	1,822.156 3	0.0481		1,823.166 6

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.0053	10.6298	7.3792	0.0112		0.6112	0.6112		0.5623	0.5623		1,131.7390	1,131.7390	0.3523		1,139.1379
Total	1.0053	10.6298	7.3792	0.0112		0.6112	0.6112		0.5623	0.5623		1,131.7390	1,131.7390	0.3523		1,139.1379

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3897	2.8853	4.9554	9.3500e-003	0.2643	0.0459	0.3102	0.0753	0.0422	0.1174		906.6654	906.6654	6.7200e-003		906.8065
Worker	0.3751	0.3397	4.5590	0.0114	0.8900	6.1900e-003	0.8962	0.2361	5.7300e-003	0.2418		864.5421	864.5421	0.0379		865.3386
Total	0.7647	3.2250	9.5144	0.0207	1.1544	0.0521	1.2064	0.3114	0.0479	0.3593		1,771.2075	1,771.2075	0.0447		1,772.1451

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,131.7390	1,131.7390	0.3523		1,139.1379
Total	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,131.7390	1,131.7390	0.3523		1,139.1379

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3897	2.8853	4.9554	9.3500e-003	0.2643	0.0459	0.3102	0.0753	0.0422	0.1174		906.6654	906.6654	6.7200e-003		906.8065
Worker	0.3751	0.3397	4.5590	0.0114	0.8900	6.1900e-003	0.8962	0.2361	5.7300e-003	0.2418		864.5421	864.5421	0.0379		865.3386
Total	0.7647	3.2250	9.5144	0.0207	1.1544	0.0521	1.2064	0.3114	0.0479	0.3593		1,771.2075	1,771.2075	0.0447		1,772.1451

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2215	1.4567	1.2454	1.9800e-003		0.1156	0.1156		0.1156	0.1156		187.6320	187.6320	0.0198		188.0480
Total	38.7313	1.4567	1.2454	1.9800e-003		0.1156	0.1156		0.1156	0.1156		187.6320	187.6320	0.0198		188.0480

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0822	0.0741	0.9936	2.2400e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		176.6168	176.6168	8.1000e-003		176.7870
Total	0.0822	0.0741	0.9936	2.2400e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		176.6168	176.6168	8.1000e-003		176.7870

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0198		188.0480
Total	38.5494	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0198		188.0480

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0822	0.0741	0.9936	2.2400e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		176.6168	176.6168	8.1000e-003		176.7870
Total	0.0822	0.0741	0.9936	2.2400e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		176.6168	176.6168	8.1000e-003		176.7870

3.6 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1991	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178			188.0068
Total	38.7089	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178			188.0068

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0737	0.0668	0.8962	2.2400e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		169.9527	169.9527	7.4600e-003			170.1093
Total	0.0737	0.0668	0.8962	2.2400e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		169.9527	169.9527	7.4600e-003			170.1093

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178		188.0068
Total	38.5494	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178		188.0068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0737	0.0668	0.8962	2.2400e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		169.9527	169.9527	7.4600e-003		170.1093
Total	0.0737	0.0668	0.8962	2.2400e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		169.9527	169.9527	7.4600e-003		170.1093

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	39.4578	45.1693	259.7681	0.3259	20.7874	0.6100	21.3974	5.5523	0.5588	6.1110		29,755.55 94	29,755.55 94	1.5805		29,788.75 07
Unmitigated	39.4578	45.1693	259.7681	0.3259	20.7874	0.6100	21.3974	5.5523	0.5588	6.1110		29,755.55 94	29,755.55 94	1.5805		29,788.75 07

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	2,386,987
Supermarket	4,836.97	8,401.78	7874.28	4,974,097	4,974,097
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	5,766.16	9,411.34	8,730.15	7,361,084	7,361,084

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
NaturalGas Unmitigated	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	3401.35	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Unenclosed 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
Apartments Mid Rise	3854.31	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Total		0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	3.40135	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Unenclosed 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
Apartments Mid Rise	3.85431	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Total		0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Unmitigated	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8804					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	0.3927	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634		21.0291	21.0291	0.0226		21.5033
Total	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8804					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	0.3927	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634		21.0291	21.0291	0.0226		21.5033
Total	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

L Street Market
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	333.00	Space	0.00	133,200.00	0
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	254
Supermarket	47.31	1000sqft	0.00	47,313.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	111.00
tblConstructionPhase	NumDays	200.00	396.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	PhaseEndDate	7/16/2018	2/9/2018
tblConstructionPhase	PhaseEndDate	2/16/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	2/10/2018	9/8/2017
tblConstructionPhase	PhaseStartDate	8/12/2016	8/5/2016
tblConstructionPhase	PhaseStartDate	6/4/2016	6/6/2016
tblGrading	AcresOfGrading	1.88	1.19
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	47,310.00	47,313.00
tblLandUse	LotAcreage	3.00	0.00
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	0.00
tblLandUse	Population	376.00	254.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32

tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblTripsAndVMT	HaulingTripNumber	171.00	230.00
tblTripsAndVMT	HaulingTripNumber	3,563.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,425.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	173.00	117.00
tblTripsAndVMT	WorkerTripNumber	35.00	23.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	3.6298	30.0349	28.8670	0.0393	3.5122	1.6138	5.1260	1.5029	1.4846	2.9875	0.0000	3,811.911 9	3,811.911 9	0.6653	0.0000	3,825.883 6
2017	40.9634	17.9197	22.9371	0.0345	1.3294	0.9171	2.2465	0.3578	0.8530	1.2107	0.0000	3,197.671 1	3,197.671 1	0.4288	0.0000	3,206.676 0
2018	40.5962	15.5594	21.3673	0.0345	1.3293	0.7655	2.0948	0.3578	0.7123	1.0700	0.0000	3,126.115 8	3,126.115 8	0.4225	0.0000	3,134.988 1
Total	85.1894	63.5140	73.1713	0.1083	6.1709	3.2964	9.4673	2.2184	3.0498	5.2682	0.0000	10,135.69 88	10,135.69 88	1.5166	0.0000	10,167.54 77

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	1.6174	14.2247	28.6388	0.0393	2.2363	0.6152	2.8515	0.8531	0.6097	1.4628	0.0000	3,811.911 9	3,811.911 9	0.6653	0.0000	3,825.883 6
2017	39.8689	10.6383	23.1434	0.0345	1.3294	0.4447	1.7740	0.3578	0.4400	0.7977	0.0000	3,197.671 1	3,197.671 1	0.4288	0.0000	3,206.676 0
2018	39.7073	10.2423	21.8953	0.0345	1.3293	0.4404	1.7697	0.3578	0.4361	0.7938	0.0000	3,126.115 8	3,126.115 8	0.4225	0.0000	3,134.988 1
Total	81.1936	35.1052	73.6775	0.1083	4.8950	1.5002	6.3952	1.5686	1.4857	3.0543	0.0000	10,135.69 88	10,135.69 88	1.5166	0.0000	10,167.54 77

	ROG	NOx	CO	SO2	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	4.69	44.73	-0.69	0.00	20.68	54.49	32.45	29.29	51.28	42.02	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Energy	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
Mobile	37.5275	51.1647	307.4304	0.2958	20.7874	0.6219	21.4094	5.5523	0.5698	6.1220		26,970.6532	26,970.6532	1.5823		27,003.8805
Total	46.0499	51.9950	319.8191	0.3007	20.7874	0.7394	21.5269	5.5523	0.6873	6.2395	0.0000	27,845.2895	27,845.2895	1.6212	0.0157	27,884.1860

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Energy	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
Mobile	37.5275	51.1647	307.4304	0.2958	20.7874	0.6219	21.4094	5.5523	0.5698	6.1220		26,970.6532	26,970.6532	1.5823		27,003.8805
Total	46.0499	51.9950	319.8191	0.3007	20.7874	0.7394	21.5269	5.5523	0.6873	6.2395	0.0000	27,845.2895	27,845.2895	1.6212	0.0157	27,884.1860

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/2/2016	6/3/2016	5	25	
2	Grading	Grading	6/6/2016	8/4/2016	5	44	
3	Site Preparation	Site Preparation	8/5/2016	8/11/2016	5	5	
4	Building Construction	Building Construction	8/5/2016	2/9/2018	5	396	
5	Architectural Coating	Architectural Coating	9/8/2017	2/9/2018	5	111	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.19

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 270,770; Non-Residential Outdoor: 90,257 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.49
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	230.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	1,425.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	45.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1075	0.0000	1.1075	0.1677	0.0000	0.1677			0.0000			0.0000
Off-Road	1.0463	9.3118	7.1722	9.3700e-003		0.6370	0.6370		0.6047	0.6047		935.2689	935.2689	0.2006		939.4818
Total	1.0463	9.3118	7.1722	9.3700e-003	1.1075	0.6370	1.7445	0.1677	0.6047	0.7724		935.2689	935.2689	0.2006		939.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2719	2.4643	3.7628	6.6400e-003	0.1595	0.0353	0.1948	0.0436	0.0324	0.0761		665.6436	665.6436	4.7300e-003		665.7429
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.3069	2.5090	4.1985	7.4900e-003	0.2356	0.0358	0.2714	0.0638	0.0329	0.0967		735.8326	735.8326	8.5900e-003		736.0130

3.2 Demolition - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4984	0.0000	0.4984	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	0.2100	4.6620	6.1272	9.3700e-003		0.3031	0.3031		0.3031	0.3031	0.0000	935.2689	935.2689	0.2006		939.4818
Total	0.2100	4.6620	6.1272	9.3700e-003	0.4984	0.3031	0.8015	0.0755	0.3031	0.3786	0.0000	935.2689	935.2689	0.2006		939.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2719	2.4643	3.7628	6.6400e-003	0.1595	0.0353	0.1948	0.0436	0.0324	0.0761		665.6436	665.6436	4.7300e-003		665.7429
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.3069	2.5090	4.1985	7.4900e-003	0.2356	0.0358	0.2714	0.0638	0.0329	0.0967		735.8326	735.8326	8.5900e-003		736.0130

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2482	0.0000	0.2482	0.0704	0.0000	0.0704			0.0000			0.0000
Off-Road	1.0463	9.3118	7.1722	9.3700e-003		0.6370	0.6370		0.6047	0.6047		935.2689	935.2689	0.2006		939.4818
Total	1.0463	9.3118	7.1722	9.3700e-003	0.2482	0.6370	0.8852	0.0704	0.6047	0.6751		935.2689	935.2689	0.2006		939.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9573	8.6749	13.2462	0.0234	0.5614	0.1242	0.6856	0.1536	0.1141	0.2677		2,343.2366	2,343.2366	0.0166		2,343.5859
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.9922	8.7196	13.6818	0.0242	0.6375	0.1248	0.7622	0.1738	0.1147	0.2884		2,413.4256	2,413.4256	0.0205		2,413.8560

3.3 Grading - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1117	0.0000	0.1117	0.0317	0.0000	0.0317			0.0000			0.0000
Off-Road	0.2100	4.6620	6.1272	9.3700e-003		0.3031	0.3031		0.3031	0.3031	0.0000	935.2689	935.2689	0.2006		939.4818
Total	0.2100	4.6620	6.1272	9.3700e-003	0.1117	0.3031	0.4148	0.0317	0.3031	0.3348	0.0000	935.2689	935.2689	0.2006		939.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.9573	8.6749	13.2462	0.0234	0.5614	0.1242	0.6856	0.1536	0.1141	0.2677		2,343.2366	2,343.2366	0.0166		2,343.5859
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0447	0.4356	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.1000e-004	0.0207		70.1890	70.1890	3.8600e-003		70.2701
Total	0.9922	8.7196	13.6818	0.0242	0.6375	0.1248	0.7622	0.1738	0.1147	0.2884		2,413.4256	2,413.4256	0.0205		2,413.8560

3.4 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3198	0.0000	2.3198	1.1815	0.0000	1.1815			0.0000			0.0000
Off-Road	1.2118	12.1809	6.4531	8.2200e-003		0.7367	0.7367		0.6778	0.6778		854.8862	854.8862	0.2579		860.3013
Total	1.2118	12.1809	6.4531	8.2200e-003	2.3198	0.7367	3.0565	1.1815	0.6778	1.8592		854.8862	854.8862	0.2579		860.3013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0175	0.0224	0.2178	4.3000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		35.0945	35.0945	1.9300e-003		35.1351
Total	0.0175	0.0224	0.2178	4.3000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		35.0945	35.0945	1.9300e-003		35.1351

3.4 Site Preparation - 2016**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0439	0.0000	1.0439	0.5317	0.0000	0.5317			0.0000			0.0000
Off-Road	0.1993	4.0588	6.1452	8.2200e-003		0.2252	0.2252		0.2252	0.2252	0.0000	854.8862	854.8862	0.2579		860.3013
Total	0.1993	4.0588	6.1452	8.2200e-003	1.0439	0.2252	1.2691	0.5317	0.2252	0.7568	0.0000	854.8862	854.8862	0.2579		860.3013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0175	0.0224	0.2178	4.3000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		35.0945	35.0945	1.9300e-003		35.1351
Total	0.0175	0.0224	0.2178	4.3000e-004	0.0380	2.8000e-004	0.0383	0.0101	2.6000e-004	0.0104		35.0945	35.0945	1.9300e-003		35.1351

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875
Total	1.2758	13.4334	7.8421	0.0113		0.8102	0.8102		0.7453	0.7453		1,169.3803	1,169.3803	0.3527		1,176.7875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7157	3.8750	9.2574	9.3800e-003	0.2643	0.0601	0.3245	0.0753	0.0552	0.1305		931.3395	931.3395	7.6100e-003		931.4994
Worker	0.4091	0.5233	5.0966	9.9900e-003	0.8900	6.5400e-003	0.8966	0.2361	6.0100e-003	0.2421		821.2115	821.2115	0.0452		822.1604
Total	1.1247	4.3984	14.3540	0.0194	1.1544	0.0667	1.2210	0.3113	0.0612	0.3726		1,752.5510	1,752.5510	0.0528		1,753.6597

3.5 Building Construction - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875
Total	0.2759	5.7452	7.9218	0.0113		0.3231	0.3231		0.3231	0.3231	0.0000	1,169.3803	1,169.3803	0.3527		1,176.7875

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7157	3.8750	9.2574	9.3800e-003	0.2643	0.0601	0.3245	0.0753	0.0552	0.1305		931.3395	931.3395	7.6100e-003		931.4994
Worker	0.4091	0.5233	5.0966	9.9900e-003	0.8900	6.5400e-003	0.8966	0.2361	6.0100e-003	0.2421		821.2115	821.2115	0.0452		822.1604
Total	1.1247	4.3984	14.3540	0.0194	1.1544	0.0667	1.2210	0.3113	0.0612	0.3726		1,752.5510	1,752.5510	0.0528		1,753.6597

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1886	12.4745	7.6916	0.0112		0.7434	0.7434		0.6839	0.6839		1,150.6673	1,150.6673	0.3526		1,158.0711
Total	1.1886	12.4745	7.6916	0.0112		0.7434	0.7434		0.6839	0.6839		1,150.6673	1,150.6673	0.3526		1,158.0711

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6114	3.4292	8.5829	9.3600e-003	0.2644	0.0507	0.3151	0.0753	0.0465	0.1218		915.6345	915.6345	7.1100e-003		915.7839
Worker	0.3612	0.4674	4.5272	9.9800e-003	0.8900	6.3200e-003	0.8963	0.2361	5.8300e-003	0.2419		788.6947	788.6947	0.0412		789.5603
Total	0.9726	3.8966	13.1101	0.0193	1.1544	0.0570	1.2114	0.3114	0.0524	0.3637		1,704.3292	1,704.3292	0.0483		1,705.3442

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,150.667 3	1,150.667 3	0.3526		1,158.071 1
Total	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,150.667 3	1,150.667 3	0.3526		1,158.071 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6114	3.4292	8.5829	9.3600e-003	0.2644	0.0507	0.3151	0.0753	0.0465	0.1218		915.6345	915.6345	7.1100e-003		915.7839
Worker	0.3612	0.4674	4.5272	9.9800e-003	0.8900	6.3200e-003	0.8963	0.2361	5.8300e-003	0.2419		788.6947	788.6947	0.0412		789.5603
Total	0.9726	3.8966	13.1101	0.0193	1.1544	0.0570	1.2114	0.3114	0.0524	0.3637		1,704.329 2	1,704.329 2	0.0483		1,705.344 2

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.0053	10.6298	7.3792	0.0112		0.6112	0.6112		0.5623	0.5623		1,131.7390	1,131.7390	0.3523		1,139.1379
Total	1.0053	10.6298	7.3792	0.0112		0.6112	0.6112		0.5623	0.5623		1,131.7390	1,131.7390	0.3523		1,139.1379

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4981	3.0892	7.9052	9.3200e-003	0.2643	0.0466	0.3109	0.0753	0.0428	0.1180		898.7028	898.7028	6.9400e-003		898.8486
Worker	0.3209	0.4206	4.0505	9.9800e-003	0.8900	6.1900e-003	0.8962	0.2361	5.7300e-003	0.2418		758.8634	758.8634	0.0379		759.6600
Total	0.8190	3.5098	11.9556	0.0193	1.1544	0.0527	1.2071	0.3114	0.0485	0.3599		1,657.5662	1,657.5662	0.0449		1,658.5086

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,131.7390	1,131.7390	0.3523		1,139.1379
Total	0.2759	5.7452	7.9218	0.0112		0.3231	0.3231		0.3231	0.3231	0.0000	1,131.7390	1,131.7390	0.3523		1,139.1379

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4981	3.0892	7.9052	9.3200e-003	0.2643	0.0466	0.3109	0.0753	0.0428	0.1180		898.7028	898.7028	6.9400e-003		898.8486
Worker	0.3209	0.4206	4.0505	9.9800e-003	0.8900	6.1900e-003	0.8962	0.2361	5.7300e-003	0.2418		758.8634	758.8634	0.0379		759.6600
Total	0.8190	3.5098	11.9556	0.0193	1.1544	0.0527	1.2071	0.3114	0.0485	0.3599		1,657.5662	1,657.5662	0.0449		1,658.5086

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2215	1.4567	1.2454	1.9800e-003		0.1156	0.1156		0.1156	0.1156		187.6320	187.6320	0.0198		188.0480
Total	38.7313	1.4567	1.2454	1.9800e-003		0.1156	0.1156		0.1156	0.1156		187.6320	187.6320	0.0198		188.0480

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0710	0.0919	0.8900	1.9600e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		155.0425	155.0425	8.1000e-003		155.2127
Total	0.0710	0.0919	0.8900	1.9600e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		155.0425	155.0425	8.1000e-003		155.2127

3.6 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0198		188.0480
Total	38.5494	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6320	187.6320	0.0198		188.0480

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0710	0.0919	0.8900	1.9600e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		155.0425	155.0425	8.1000e-003		155.2127
Total	0.0710	0.0919	0.8900	1.9600e-003	0.1750	1.2400e-003	0.1762	0.0464	1.1500e-003	0.0476		155.0425	155.0425	8.1000e-003		155.2127

3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1991	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178		188.0068
Total	38.7089	1.3372	1.2361	1.9800e-003		0.1004	0.1004		0.1004	0.1004		187.6324	187.6324	0.0178		188.0068

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0631	0.0827	0.7963	1.9600e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		149.1783	149.1783	7.4600e-003		149.3349
Total	0.0631	0.0827	0.7963	1.9600e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		149.1783	149.1783	7.4600e-003		149.3349

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	38.5098					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0396	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068
Total	38.5494	0.9047	1.2216	1.9800e-003		0.0634	0.0634		0.0634	0.0634	0.0000	187.6324	187.6324	0.0178			188.0068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0631	0.0827	0.7963	1.9600e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		149.1783	149.1783	7.4600e-003			149.3349
Total	0.0631	0.0827	0.7963	1.9600e-003	0.1750	1.2200e-003	0.1762	0.0464	1.1300e-003	0.0475		149.1783	149.1783	7.4600e-003			149.3349

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.5275	51.1647	307.4304	0.2958	20.7874	0.6219	21.4094	5.5523	0.5698	6.1220		26,970.65 32	26,970.65 32	1.5823		27,003.88 05
Unmitigated	37.5275	51.1647	307.4304	0.2958	20.7874	0.6219	21.4094	5.5523	0.5698	6.1220		26,970.65 32	26,970.65 32	1.5823		27,003.88 05

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	2,386,987
Supermarket	4,836.97	8,401.78	7874.28	4,974,097	4,974,097
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	5,766.16	9,411.34	8,730.15	7,361,084	7,361,084

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021
NaturalGas Unmitigated	0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3854.31	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Supermarket	3401.35	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Unenclosed 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
Total		0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	3.40135	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Unenclosed 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
Apartments Mid Rise	3.85431	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Total		0.0783	0.6887	0.4313	4.2700e-003		0.0541	0.0541		0.0541	0.0541		853.6072	853.6072	0.0164	0.0157	858.8021

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033
Unmitigated	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8804					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	0.3927	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634		21.0291	21.0291	0.0226		21.5033
Total	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8804					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	0.3927	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634		21.0291	21.0291	0.0226		21.5033
Total	8.4442	0.1417	11.9574	6.2000e-004		0.0634	0.0634		0.0634	0.0634	0.0000	21.0291	21.0291	0.0226	0.0000	21.5033

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

L Street Market
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	333.00	Space	0.00	133,200.00	0
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	254
Supermarket	47.31	1000sqft	0.00	47,313.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2014
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	111.00
tblConstructionPhase	NumDays	200.00	396.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	PhaseEndDate	7/16/2018	2/9/2018
tblConstructionPhase	PhaseEndDate	2/16/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	2/10/2018	9/8/2017
tblConstructionPhase	PhaseStartDate	8/12/2016	8/5/2016
tblConstructionPhase	PhaseStartDate	6/4/2016	6/6/2016
tblGrading	AcresOfGrading	1.88	1.19
tblGrading	MaterialExported	0.00	28,500.00
tblLandUse	LandUseSquareFeet	47,310.00	47,313.00
tblLandUse	LotAcreage	3.00	0.00
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	0.00
tblLandUse	Population	376.00	254.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	89.00	149.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	255.00	358.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	HorsePower	97.00	75.00
tblOffRoadEquipment	LoadFactor	0.48	0.32

tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	LoadFactor	0.73	0.49
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblTripsAndVMT	HaulingTripNumber	171.00	230.00
tblTripsAndVMT	HaulingTripNumber	3,563.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,425.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	173.00	117.00
tblTripsAndVMT	WorkerTripNumber	35.00	23.00

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					
2016	0.1819	1.5087	1.6342	2.6100e-003	0.1008	0.0735	0.1742	0.0271	0.0682	0.0953	0.0000	229.8230	229.8230	0.0269	0.0000	230.3871
2017	1.8383	2.1767	2.5355	4.1800e-003	0.1519	0.1087	0.2606	0.0411	0.1004	0.1415	0.0000	352.7486	352.7486	0.0483	0.0000	353.7627
2018	0.6077	0.2318	0.2915	5.2000e-004	0.0193	0.0115	0.0308	5.2000e-003	0.0107	0.0159	0.0000	42.9662	42.9662	5.7500e-003	0.0000	43.0869
Total	2.6279	3.9172	4.4613	7.3100e-003	0.2720	0.1937	0.4656	0.0734	0.1793	0.2527	0.0000	625.5378	625.5378	0.0809	0.0000	627.2367

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					
2016	0.0975	0.9205	1.6016	2.6100e-003	0.0870	0.0348	0.1218	0.0235	0.0343	0.0578	0.0000	229.8229	229.8229	0.0269	0.0000	230.3870
2017	1.7123	1.2795	2.5645	4.1800e-003	0.1519	0.0520	0.2039	0.0411	0.0514	0.0924	0.0000	352.7484	352.7484	0.0483	0.0000	353.7625
2018	0.5944	0.1521	0.2995	5.2000e-004	0.0193	6.6000e-003	0.0259	5.2000e-003	6.5400e-003	0.0117	0.0000	42.9662	42.9662	5.7500e-003	0.0000	43.0869
Total	2.4042	2.3521	4.4655	7.3100e-003	0.2582	0.0934	0.3516	0.0698	0.0922	0.1620	0.0000	625.5375	625.5375	0.0809	0.0000	627.2364

	ROG	NOx	CO	SO2	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	8.51	39.96	-0.10	0.00	5.07	51.76	24.49	4.95	48.57	35.90	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384
Energy	0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	919.4571	919.4571	0.0409	0.0105	923.5718
Mobile	4.5435	6.5039	35.1885	0.0410	2.7391	0.0831	2.8222	0.7337	0.0761	0.8098	0.0000	3,396.8710	3,396.8710	0.1929	0.0000	3,400.9224
Waste						0.0000	0.0000		0.0000	0.0000	67.3301	0.0000	67.3301	3.9791	0.0000	150.8910
Water						0.0000	0.0000		0.0000	0.0000	5.3136	25.6336	30.9472	0.0196	0.0118	35.0206
Total	6.0763	6.6472	36.7619	0.0418	2.7391	0.1009	2.8400	0.7337	0.0939	0.8276	72.6437	4,344.3464	4,416.9900	4.2351	0.0223	4,512.8443

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384
Energy	0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	919.4571	919.4571	0.0409	0.0105	923.5718
Mobile	4.5435	6.5039	35.1885	0.0410	2.7391	0.0831	2.8222	0.7337	0.0761	0.8098	0.0000	3,396.8710	3,396.8710	0.1929	0.0000	3,400.9224
Waste						0.0000	0.0000		0.0000	0.0000	67.3301	0.0000	67.3301	3.9791	0.0000	150.8910
Water						0.0000	0.0000		0.0000	0.0000	5.3136	25.6336	30.9472	0.0196	0.0118	35.0265
Total	6.0763	6.6472	36.7619	0.0418	2.7391	0.1009	2.8400	0.7337	0.0939	0.8276	72.6437	4,344.3464	4,416.9900	4.2351	0.0223	4,512.8502

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/2/2016	6/3/2016	5	25	
2	Grading	Grading	6/6/2016	8/4/2016	5	44	
3	Site Preparation	Site Preparation	8/5/2016	8/11/2016	5	5	
4	Building Construction	Building Construction	8/5/2016	2/9/2018	5	396	
5	Architectural Coating	Architectural Coating	9/8/2017	2/9/2018	5	111	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.19

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 270,770; Non-Residential Outdoor: 90,257 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.49
Demolition	Rubber Tired Dozers	1	1.00	358	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Site Preparation	Graders	1	8.00	162	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.49
Grading	Rubber Tired Dozers	1	1.00	358	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	75	0.37
Building Construction	Cranes	1	4.00	208	0.29
Building Construction	Forklifts	2	6.00	149	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	75	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.32

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	4	10.00	0.00	230.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	1,425.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	45.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

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					0.0138	0.0000	0.0138	2.1000e-003	0.0000	2.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1164	0.0897	1.2000e-004		7.9600e-003	7.9600e-003		7.5600e-003	7.5600e-003	0.0000	10.6058	10.6058	2.2700e-003	0.0000	10.6535
Total	0.0131	0.1164	0.0897	1.2000e-004	0.0138	7.9600e-003	0.0218	2.1000e-003	7.5600e-003	9.6600e-003	0.0000	10.6058	10.6058	2.2700e-003	0.0000	10.6535

3.2 Demolition - 2016

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	2.9600e-003	0.0301	0.0399	8.0000e-005	1.9300e-003	4.4000e-004	2.3700e-003	5.3000e-004	4.0000e-004	9.4000e-004	0.0000	7.5590	7.5590	5.0000e-005	0.0000	7.5601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	5.0000e-004	5.2400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8193	0.8193	4.0000e-005	0.0000	0.8202
Total	3.3800e-003	0.0306	0.0451	9.0000e-005	2.8500e-003	4.5000e-004	3.3000e-003	7.7000e-004	4.1000e-004	1.1900e-003	0.0000	8.3783	8.3783	9.0000e-005	0.0000	8.3803

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					6.2300e-003	0.0000	6.2300e-003	9.4000e-004	0.0000	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6200e-003	0.0583	0.0766	1.2000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	10.6058	10.6058	2.2700e-003	0.0000	10.6535
Total	2.6200e-003	0.0583	0.0766	1.2000e-004	6.2300e-003	3.7900e-003	0.0100	9.4000e-004	3.7900e-003	4.7300e-003	0.0000	10.6058	10.6058	2.2700e-003	0.0000	10.6535

3.2 Demolition - 2016

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	2.9600e-003	0.0301	0.0399	8.0000e-005	1.9300e-003	4.4000e-004	2.3700e-003	5.3000e-004	4.0000e-004	9.4000e-004	0.0000	7.5590	7.5590	5.0000e-005	0.0000	7.5601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	5.0000e-004	5.2400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8193	0.8193	4.0000e-005	0.0000	0.8202
Total	3.3800e-003	0.0306	0.0451	9.0000e-005	2.8500e-003	4.5000e-004	3.3000e-003	7.7000e-004	4.1000e-004	1.1900e-003	0.0000	8.3783	8.3783	9.0000e-005	0.0000	8.3803

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4600e-003	0.0000	5.4600e-003	1.5500e-003	0.0000	1.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2049	0.1578	2.1000e-004		0.0140	0.0140		0.0133	0.0133	0.0000	18.6662	18.6662	4.0000e-003	0.0000	18.7502
Total	0.0230	0.2049	0.1578	2.1000e-004	5.4600e-003	0.0140	0.0195	1.5500e-003	0.0133	0.0149	0.0000	18.6662	18.6662	4.0000e-003	0.0000	18.7502

3.3 Grading - 2016

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	0.0184	0.1867	0.2471	5.1000e-004	0.0120	2.7300e-003	0.0147	3.2900e-003	2.5100e-003	5.7900e-003	0.0000	46.8326	46.8326	3.3000e-004	0.0000	46.8396
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.8000e-004	9.2300e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4420	1.4420	8.0000e-005	0.0000	1.4436
Total	0.0191	0.1876	0.2564	5.3000e-004	0.0136	2.7400e-003	0.0163	3.7200e-003	2.5200e-003	6.2300e-003	0.0000	48.2746	48.2746	4.1000e-004	0.0000	48.2832

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4600e-003	0.0000	2.4600e-003	7.0000e-004	0.0000	7.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.1026	0.1348	2.1000e-004		6.6700e-003	6.6700e-003		6.6700e-003	6.6700e-003	0.0000	18.6661	18.6661	4.0000e-003	0.0000	18.7502
Total	4.6200e-003	0.1026	0.1348	2.1000e-004	2.4600e-003	6.6700e-003	9.1300e-003	7.0000e-004	6.6700e-003	7.3700e-003	0.0000	18.6661	18.6661	4.0000e-003	0.0000	18.7502

3.3 Grading - 2016

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	0.0184	0.1867	0.2471	5.1000e-004	0.0120	2.7300e-003	0.0147	3.2900e-003	2.5100e-003	5.7900e-003	0.0000	46.8326	46.8326	3.3000e-004	0.0000	46.8396
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.8000e-004	9.2300e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4420	1.4420	8.0000e-005	0.0000	1.4436
Total	0.0191	0.1876	0.2564	5.3000e-004	0.0136	2.7400e-003	0.0163	3.7200e-003	2.5200e-003	6.2300e-003	0.0000	48.2746	48.2746	4.1000e-004	0.0000	48.2832

3.4 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0300e-003	0.0305	0.0161	2.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	1.9389	1.9389	5.8000e-004	0.0000	1.9511
Total	3.0300e-003	0.0305	0.0161	2.0000e-005	5.8000e-003	1.8400e-003	7.6400e-003	2.9500e-003	1.6900e-003	4.6400e-003	0.0000	1.9389	1.9389	5.8000e-004	0.0000	1.9511

3.4 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	5.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0819	0.0819	0.0000	0.0000	0.0820
Total	4.0000e-005	5.0000e-005	5.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0819	0.0819	0.0000	0.0000	0.0820

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6100e-003	0.0000	2.6100e-003	1.3300e-003	0.0000	1.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-004	0.0102	0.0154	2.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	1.9389	1.9389	5.8000e-004	0.0000	1.9511
Total	5.0000e-004	0.0102	0.0154	2.0000e-005	2.6100e-003	5.6000e-004	3.1700e-003	1.3300e-003	5.6000e-004	1.8900e-003	0.0000	1.9389	1.9389	5.8000e-004	0.0000	1.9511

3.4 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	5.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0819	0.0819	0.0000	0.0000	0.0820
Total	4.0000e-005	5.0000e-005	5.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.0819	0.0819	0.0000	0.0000	0.0820

3.5 Building Construction - 2016

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	0.0676	0.7120	0.4156	6.0000e-004		0.0429	0.0429		0.0395	0.0395	0.0000	56.2247	56.2247	0.0170	0.0000	56.5809
Total	0.0676	0.7120	0.4156	6.0000e-004		0.0429	0.0429		0.0395	0.0395	0.0000	56.2247	56.2247	0.0170	0.0000	56.5809

3.5 Building Construction - 2016

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	0.0000
Vendor	0.0319	0.2019	0.3930	5.0000e-004	0.0136	3.1600e-003	0.0168	3.8900e-003	2.9000e-003	6.7900e-003	0.0000	45.0078	45.0078	3.6000e-004	0.0000	45.0154	
Worker	0.0208	0.0248	0.2600	5.4000e-004	0.0455	3.5000e-004	0.0459	0.0121	3.2000e-004	0.0124	0.0000	40.6448	40.6448	2.1700e-003	0.0000	40.6904	
Total	0.0527	0.2267	0.6530	1.0400e-003	0.0591	3.5100e-003	0.0627	0.0160	3.2200e-003	0.0192	0.0000	85.6526	85.6526	2.5300e-003	0.0000	85.7058	

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	0.0146	0.3045	0.4199	6.0000e-004		0.0171	0.0171		0.0171	0.0171	0.0000	56.2247	56.2247	0.0170	0.0000	56.5808	
Total	0.0146	0.3045	0.4199	6.0000e-004		0.0171	0.0171		0.0171	0.0171	0.0000	56.2247	56.2247	0.0170	0.0000	56.5808	

3.5 Building Construction - 2016**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	0.0319	0.2019	0.3930	5.0000e-004	0.0136	3.1600e-003	0.0168	3.8900e-003	2.9000e-003	6.7900e-003	0.0000	45.0078	45.0078	3.6000e-004	0.0000	45.0154
Worker	0.0208	0.0248	0.2600	5.4000e-004	0.0455	3.5000e-004	0.0459	0.0121	3.2000e-004	0.0124	0.0000	40.6448	40.6448	2.1700e-003	0.0000	40.6904
Total	0.0527	0.2267	0.6530	1.0400e-003	0.0591	3.5100e-003	0.0627	0.0160	3.2200e-003	0.0192	0.0000	85.6526	85.6526	2.5300e-003	0.0000	85.7058

3.5 Building Construction - 2017**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	0.1545	1.6217	0.9999	1.4600e-003		0.0966	0.0966		0.0889	0.0889	0.0000	135.7028	135.7028	0.0416	0.0000	136.5760
Total	0.1545	1.6217	0.9999	1.4600e-003		0.0966	0.0966		0.0889	0.0889	0.0000	135.7028	135.7028	0.0416	0.0000	136.5760

3.5 Building Construction - 2017

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	0.0672	0.4384	0.8814	1.2200e-003	0.0334	6.5300e-003	0.0399	9.5400e-003	6.0000e-003	0.0155	0.0000	108.5371	108.5371	8.2000e-004	0.0000	108.5544
Worker	0.0452	0.0543	0.5689	1.3400e-003	0.1117	8.2000e-004	0.1125	0.0297	7.6000e-004	0.0305	0.0000	95.7509	95.7509	4.8600e-003	0.0000	95.8529
Total	0.1124	0.4927	1.4503	2.5600e-003	0.1451	7.3500e-003	0.1524	0.0393	6.7600e-003	0.0460	0.0000	204.2880	204.2880	5.6800e-003	0.0000	204.4074

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	0.0359	0.7469	1.0298	1.4600e-003		0.0420	0.0420		0.0420	0.0420	0.0000	135.7027	135.7027	0.0416	0.0000	136.5758
Total	0.0359	0.7469	1.0298	1.4600e-003		0.0420	0.0420		0.0420	0.0420	0.0000	135.7027	135.7027	0.0416	0.0000	136.5758

3.5 Building Construction - 2017

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	0.0672	0.4384	0.8814	1.2200e-003	0.0334	6.5300e-003	0.0399	9.5400e-003	6.0000e-003	0.0155	0.0000	108.5371	108.5371	8.2000e-004	0.0000	108.5544
Worker	0.0452	0.0543	0.5689	1.3400e-003	0.1117	8.2000e-004	0.1125	0.0297	7.6000e-004	0.0305	0.0000	95.7509	95.7509	4.8600e-003	0.0000	95.8529
Total	0.1124	0.4927	1.4503	2.5600e-003	0.1451	7.3500e-003	0.1524	0.0393	6.7600e-003	0.0460	0.0000	204.2880	204.2880	5.6800e-003	0.0000	204.4074

3.5 Building Construction - 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	0.0151	0.1595	0.1107	1.7000e-004		9.1700e-003	9.1700e-003		8.4300e-003	8.4300e-003	0.0000	15.4005	15.4005	4.7900e-003	0.0000	15.5011
Total	0.0151	0.1595	0.1107	1.7000e-004		9.1700e-003	9.1700e-003		8.4300e-003	8.4300e-003	0.0000	15.4005	15.4005	4.7900e-003	0.0000	15.5011

3.5 Building Construction - 2018**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	6.4100e-003	0.0456	0.0917	1.4000e-004	3.8500e-003	6.9000e-004	4.5400e-003	1.1000e-003	6.4000e-004	1.7400e-003	0.0000	12.2922	12.2922	9.0000e-005	0.0000	12.2941
Worker	4.6600e-003	5.6400e-003	0.0590	1.5000e-004	0.0129	9.0000e-005	0.0130	3.4300e-003	9.0000e-005	3.5100e-003	0.0000	10.6305	10.6305	5.2000e-004	0.0000	10.6414
Total	0.0111	0.0512	0.1507	2.9000e-004	0.0167	7.8000e-004	0.0175	4.5300e-003	7.3000e-004	5.2500e-003	0.0000	22.9227	22.9227	6.1000e-004	0.0000	22.9355

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1400e-003	0.0862	0.1188	1.7000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	15.4004	15.4004	4.7900e-003	0.0000	15.5011
Total	4.1400e-003	0.0862	0.1188	1.7000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	15.4004	15.4004	4.7900e-003	0.0000	15.5011

3.5 Building Construction - 2018

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	6.4100e-003	0.0456	0.0917	1.4000e-004	3.8500e-003	6.9000e-004	4.5400e-003	1.1000e-003	6.4000e-004	1.7400e-003	0.0000	12.2922	12.2922	9.0000e-005	0.0000	12.2941
Worker	4.6600e-003	5.6400e-003	0.0590	1.5000e-004	0.0129	9.0000e-005	0.0130	3.4300e-003	9.0000e-005	3.5100e-003	0.0000	10.6305	10.6305	5.2000e-004	0.0000	10.6414
Total	0.0111	0.0512	0.1507	2.9000e-004	0.0167	7.8000e-004	0.0175	4.5300e-003	7.3000e-004	5.2500e-003	0.0000	22.9227	22.9227	6.1000e-004	0.0000	22.9355

3.6 Architectural Coating - 2017

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	1.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9700e-003	0.0590	0.0504	8.0000e-005		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	6.8938	6.8938	7.3000e-004	0.0000	6.9091
Total	1.5686	0.0590	0.0504	8.0000e-005		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003	0.0000	6.8938	6.8938	7.3000e-004	0.0000	6.9091

3.6 Architectural Coating - 2017

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7700e-003	3.3300e-003	0.0348	8.0000e-005	6.8400e-003	5.0000e-005	6.8900e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.8640	5.8640	3.0000e-004	0.0000	5.8703	
Total	2.7700e-003	3.3300e-003	0.0348	8.0000e-005	6.8400e-003	5.0000e-005	6.8900e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.8640	5.8640	3.0000e-004	0.0000	5.8703	

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	1.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-003	0.0366	0.0495	8.0000e-005		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	6.8938	6.8938	7.3000e-004	0.0000	6.9091
Total	1.5613	0.0366	0.0495	8.0000e-005		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	6.8938	6.8938	7.3000e-004	0.0000	6.9091

3.6 Architectural Coating - 2017

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	2.7700e-003	3.3300e-003	0.0348	8.0000e-005	6.8400e-003	5.0000e-005	6.8900e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.8640	5.8640	3.0000e-004	0.0000	5.8703
Total	2.7700e-003	3.3300e-003	0.0348	8.0000e-005	6.8400e-003	5.0000e-005	6.8900e-003	1.8200e-003	5.0000e-005	1.8700e-003	0.0000	5.8640	5.8640	3.0000e-004	0.0000	5.8703

3.6 Architectural Coating - 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					
Archit. Coating	0.5777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	0.5806	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584

3.6 Architectural Coating - 2018

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	1.1100e-003	0.0116	3.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.0898	2.0898	1.0000e-004	0.0000	2.0919	
Total	9.2000e-004	1.1100e-003	0.0116	3.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.0898	2.0898	1.0000e-004	0.0000	2.0919	

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	0.5777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	0.5782	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	1.1100e-003	0.0116	3.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.0898	2.0898	1.0000e-004	0.0000	2.0919
Total	9.2000e-004	1.1100e-003	0.0116	3.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.0898	2.0898	1.0000e-004	0.0000	2.0919

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	4.5435	6.5039	35.1885	0.0410	2.7391	0.0831	2.8222	0.7337	0.0761	0.8098	0.0000	3,396.8710	3,396.8710	0.1929	0.0000	3,400.9224
Unmitigated	4.5435	6.5039	35.1885	0.0410	2.7391	0.0831	2.8222	0.7337	0.0761	0.8098	0.0000	3,396.8710	3,396.8710	0.1929	0.0000	3,400.9224

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	2,386,987
Supermarket	4,836.97	8,401.78	7874.28	4,974,097	4,974,097
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	5,766.16	9,411.34	8,730.15	7,361,084	7,361,084

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504217	0.068068	0.177511	0.150009	0.045572	0.006451	0.019525	0.014983	0.002306	0.002359	0.006212	0.000585	0.002203

5.0 Energy Detail

~~5.1 Fleet Mix~~

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	778.1329	778.1329	0.0382	7.9100e-003	781.3874
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	778.1329	778.1329	0.0382	7.9100e-003	781.3874
NaturalGas Mitigated	0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	141.3243	141.3243	2.7100e-003	2.5900e-003	142.1843
NaturalGas Unmitigated	0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	141.3243	141.3243	2.7100e-003	2.5900e-003	142.1843

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					
Supermarket	1.24149e+006	6.6900e-003	0.0609	0.0511	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	66.2508	66.2508	1.2700e-003	1.2100e-003	66.6540
Unenclosed 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
Apartments Mid Rise	1.40682e+006	7.5900e-003	0.0648	0.0276	4.1000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	75.0735	75.0735	1.4400e-003	1.3800e-003	75.5303
Total		0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	141.3243	141.3243	2.7100e-003	2.5900e-003	142.1843

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Supermarket	1.24149e+006	6.6900e-003	0.0609	0.0511	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	66.2508	66.2508	1.2700e-003	1.2100e-003	66.6540
Unenclosed 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
Apartments Mid Rise	1.40682e+006	7.5900e-003	0.0648	0.0276	4.1000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	75.0735	75.0735	1.4400e-003	1.3800e-003	75.5303
Total		0.0143	0.1257	0.0787	7.8000e-004		9.8700e-003	9.8700e-003		9.8700e-003	9.8700e-003	0.0000	141.3243	141.3243	2.7100e-003	2.5900e-003	142.1843

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	510193	136.6093	6.7100e-003	1.3900e-003	137.1807
Supermarket	2.02027e+006	540.9464	0.0266	5.5000e-003	543.2089
Unenclosed Parking with Elevator	375624	100.5771	4.9400e-003	1.0200e-003	100.9978
Total		778.1329	0.0382	7.9100e-003	781.3874

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	510193	136.6093	6.7100e-003	1.3900e-003	137.1807
Supermarket	2.02027e+006	540.9464	0.0266	5.5000e-003	543.2089
Unenclosed Parking with Elevator	375624	100.5771	4.9400e-003	1.0200e-003	100.9978
Total		778.1329	0.0382	7.9100e-003	781.3874

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	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384
Unmitigated	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384

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	0.2137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2557					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	0.0491	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384
Total	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2557					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	0.0491	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384
Total	1.5185	0.0177	1.4947	8.0000e-005		7.9300e-003	7.9300e-003		7.9300e-003	7.9300e-003	0.0000	2.3847	2.3847	2.5600e-003	0.0000	2.4384

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.9472	0.0196	0.0118	35.0265
Unmitigated	30.9472	0.0196	0.0118	35.0206

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.18672 / 5.79163	20.9343	0.0121	7.2500e-003	23.4344
Supermarket	5.83182 / 0.180366	10.0128	7.4900e-003	4.5700e-003	11.5862
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		30.9472	0.0196	0.0118	35.0206

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.18672 / 5.79163	20.9343	0.0121	7.2600e-003	23.4380
Supermarket	5.83182 / 0.180366	10.0128	7.5200e-003	4.5700e-003	11.5885
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		30.9472	0.0196	0.0118	35.0265

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	67.3301	3.9791	0.0000	150.8910
Unmitigated	67.3301	3.9791	0.0000	150.8910

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	64.86	13.1660	0.7781	0.0000	29.5058
Supermarket	266.83	54.1641	3.2010	0.0000	121.3852
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		67.3301	3.9791	0.0000	150.8910

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	64.86	13.1660	0.7781	0.0000	29.5058
Supermarket	266.83	54.1641	3.2010	0.0000	121.3852
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		67.3301	3.9791	0.0000	150.8910

9.0 Operational Offroad

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

**2025 L Street
Construction Emissions**

Construction Phase	Pollutants (lbs/day)				Annual
	ROG	NO _x	PM ₁₀	PM _{2.5}	CO ₂ e
2101 Capitol					
2015	2.84	24.88	2.85	1.53	97.40
2016	60.15	18.01	1.86	1.15	97.64
2025 L Street					
2016	3.63	30.03	5.13	2.99	230.39
2017	40.96	17.92	2.25	1.21	353.76
2018	40.60	15.56	2.09	1.07	43.09
Note: Criteria air pollutant emissions represent maximum daily emissions during each construction year. Greenhouse gas emissions are annual emissions					



2025 L Street: HRA Modeling Sources and Receptors

ISCST3 Model Inputs and Resulting Dispersion Factor

Source Type	Area
Source Release Height2 (m)	5.18
Total Area (m2)	1265.4
Receptor Height Above Ground (m)	1.8

Cancer Risk for Resident Child up to 4 Years Old

Parameter	Value	Units
Daily Breathing Rate (DBR)	581	[L/kg-day]
Exposure Frequency (EF)	312	[days/year] (6 days/week, 52 weeks/year)
Exposure Duration ² (ED)	4	[years]
Conversion Factor (CF)	0.001	[m ³ /L]
Averaging Time (AT)	25550	[days]
Age Sensitivity Factor (ASF)	8.25	[unitless]

	DPM	
C _i = Annual Average Air Concentration for Chemical (µg/m ³)	2.60E-04	
CF = Conversion Factor (mg/µg)	0.001	
CPF = Cancer Potency Factor (mg chemical/kg body weight-day) ⁻¹	1.1	
IF _{inh} = (DBR * EF * ED * CF)/AT	0.028	
Risk(inh) = C _i x CF x IF _{inh} x CPF x ASF	6.70E-08	
	0.07	in a million
Threshold	10	
Above Threshold?	NO	

Cancer Risk for Resident Adult

Parameter	Value	Units
Daily Breathing Rate (DBR)	302	[L/kg-day]
Exposure Frequency (EF)	312	[days/year] (6 days/week, 52 weeks/year)
Exposure Duration ² (ED)	4	[years]
Conversion Factor (CF)	0.001	[m ³ /L]
Averaging Time (AT)	25550	[days]
Age Sensitivity Factor (ASF)	1.7	[unitless]

	DPM	
Ci = Annual Average Air Concentration for Chemical ($\mu\text{g}/\text{m}^3$)	2.60E-04	
CF = Conversion Factor ($\text{mg}/\mu\text{g}$)	0.001	
CPF = Cancer Potency Factor ($\text{mg chemical}/\text{kg body weight-day}$)-1	1.1	
IFinh = $(\text{DBR} * \text{EF} * \text{ED} * \text{CF})/\text{AT}$	0.015	
Risk(inh) = $\text{Ci} * \text{CF} * \text{IFinh} * \text{CPF} * \text{ASF}$	7.17E-09	
	0.007	in a million
Threshold	10	
Above Threshold?	NO	

Cancer Risk for Worker

Parameter	Value	Units	
Daily Breathing Rate (DBR)	302	[L/kg-day]	
Exposure Frequency (EF)	250	[days/year]	(5 days/week, 50 weeks/year)
Exposure Duration ² (ED)	4	[years]	
Conversion Factor (CF)	0.001	[m^3/L]	
Averaging Time (AT)	25550	[days]	
Age Sensitivity Factor (ASF)	1.7	[unitless]	

	DPM	
Ci = Annual Average Air Concentration for Chemical ($\mu\text{g}/\text{m}^3$)	2.60E-04	
CF = Conversion Factor ($\text{mg}/\mu\text{g}$)	0.001	
CPF = Cancer Potency Factor ($\text{mg chemical}/\text{kg body weight-day}$)-1	1.1	
IFinh = $(\text{DBR} * \text{EF} * \text{ED} * \text{CF})/\text{AT}$	0.012	
Risk(inh) = $\text{Ci} * \text{CF} * \text{IFinh} * \text{CPF} * \text{ASF}$	5.75E-09	
	0.006	in a million
Threshold	10	
Above Threshold?	NO	

**Total Chronic HI
Resident**

	DPM
Ci = Annual Average Air Concentration for Chemical ($\mu\text{g}/\text{m}^3$)	0.000
REL	5
HQi = Ci / RELi	5.20E-05
Threshold	1
Above Threshold?	NO

Worker

	DPM
Ci = Annual Average Air Concentration for Chemical ($\mu\text{g}/\text{m}^3$)	0.000
REL	5
HQi = Ci / RELi	5.20E-05
Threshold	1
Above Threshold?	NO

Total Acute HI

Maximum

ROG Emissions from Diesel Equipment

Max Hourly Exhaust ROG Concentration	23.425	ug/m ³
Max Hourly Exhaust TOG Concentration	27.997	ug/m ³

Diesel TOG

HQi = Ci / RELi	0.15
Threshold	1
Above Threshold?	YES

ONSITE

Total PM2.5 Emissions - Maximum Residential Location

Annual PM2.5 Concentration	3.10E-04	ug/m ³
Threshold	0.30	ug/m ³
Exceeds Threshold?	NO	

Diesel TOG	CAS	wt fraction	aREL	wAcuteCi/ REL
acetaldehyde	75070	0.07353	470	0.0044
acrolein	107028	0.01297	2.5	0.1452
benzaldehyde	100527	0.00699		
benzene	71432	0.02001	27	0.0207
ethanol	64175	0.00009		
ethylbenzene	100414	0.00305		
ethylene	74851	0.14377		
ethylene thiourea	96457	0		
ethylene dibromide (1,2 - dibromoethane)	106934	0		
ethylene dichloride (1,2-dichloroethane)	107062	0		
ethylene glycol	107211	0		
ethylene glycol butyl ether	111762	0	14000	0.0000
ethylene glycol ethyl ether	110805	0	370	0.0000
ethylene glycol ethyl ether acetate	111159	0	140	0.0000
ethylene glycol methyl ether	109864	0	93	0.0000
ethylene glycol methyl ether acetate	110496	0		
ethylene oxide (1,2-epoxyethane)	75218	0		
formaldehyde	50000	0.14714	55	0.0749
isobutane	75285	0.01222		
isopentane	78784	0.00602		
methane	74828	0.04084		
methyl ethyl ketone (mek) (2-butanone)	78933	0.01477	13000	0.0000
methylcyclopentane	96377	0.00149		
m-xylene	108383	0.00611	22000	0.0000
n-butane	106978	0.00104		
n-hexane	110543	0.00157		
n-pentane	109660	0.00175		
o-xylene	95476	0.00335	22000	0.0000
propionaldehyde	123386	0.0097		
propylene	115071	0.02597		
propylene glycol monomethyl ether	107982	0		
propylene oxide	75569	0	3100	0.0000
toluene	108883	0.01473	3700	0.0001

MAX 0.1452

2025 L Street - Operational Emissions Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	376
Supermarket	47.31	1000sqft	1.19	47,313.00	0
Strip Mall	13.00	1000sqft	0.67	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - acreage is size of site footprint

Mobile Land Use Mitigation - LUT-4 is distance to Capitol building

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	1.19
tblLandUse	LotAcreage	0.30	0.67
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	5.1492	54.6972	41.9739	0.0438	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	4,209.1986	4,209.1986	1.2331	0.0000	4,235.0937
2017	145.0405	28.5739	26.5113	0.0438	1.0673	1.8155	2.8828	0.2860	1.7045	1.9905	0.0000	4,082.1379	4,082.1379	0.6962	0.0000	4,096.7572
Total	150.1897	83.2711	68.4852	0.0876	19.2705	4.7552	24.0257	10.2530	4.4090	14.6620	0.0000	8,291.3365	8,291.3365	1.9293	0.0000	8,331.8509

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	5.1492	54.6972	41.9739	0.0438	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	4,209.1986	4,209.1986	1.2331	0.0000	4,235.0937
2017	145.0405	28.5739	26.5113	0.0438	1.0673	1.8155	2.8828	0.2860	1.7045	1.9905	0.0000	4,082.1379	4,082.1379	0.6962	0.0000	4,096.7572
Total	150.1897	83.2711	68.4852	0.0876	19.2705	4.7552	24.0257	10.2530	4.4090	14.6620	0.0000	8,291.3365	8,291.3365	1.9293	0.0000	8,331.8509

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Energy	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
Mobile	32.1337	36.8016	207.1052	0.3496	22.2955	0.4688	22.7643	5.9558	0.4311	6.3869		29,219.6682	29,219.6682	1.2795		29,246.5380
Total	37.6019	37.6470	219.3091	0.3546	22.2955	0.5882	22.8837	5.9558	0.5505	6.5063	0.0000	30,117.9090	30,117.9090	1.3174	0.0161	30,150.5599

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Energy	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
Mobile	31.3303	32.3629	184.6836	0.2893	18.1476	0.3978	18.5454	4.8478	0.3657	5.2135		24,176.5912	24,176.5912	1.0996		24,199.6818
Total	36.7985	33.2083	196.8876	0.2943	18.1476	0.5172	18.6648	4.8478	0.4851	5.3329	0.0000	25,074.8320	25,074.8320	1.1374	0.0161	25,103.7038

	ROG	NOx	CO	SO2	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	2.14	11.79	10.22	17.00	18.60	12.08	18.44	18.60	11.88	18.04	0.00	16.74	16.74	13.66	0.00	16.74

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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 90,470; Non-Residential Outdoor: 30,157 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	121.00	25.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374
Total	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003			144.0434
Total	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003			144.0434

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262			4,090.7544

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
Total	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332		3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900		3,093.7889	3,093.7889	0.9332		3,113.3860

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000	
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332			3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900	0.0000	3,093.7889	3,093.7889	0.9332			3,113.3860

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362
Total	0.0601	0.0541	0.7239	1.4600e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		119.9145	119.9145	5.7900e-003			120.0362

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3021	2.0079	3.5230	5.2300e-003	0.1469	0.0329	0.1798	0.0418	0.0302	0.0720		521.9585	521.9585	4.1100e-003			522.0447
Worker	0.4849	0.4362	5.8391	0.0118	0.9205	6.7600e-003	0.9272	0.2442	6.2100e-003	0.2504		967.3106	967.3106	0.0467			968.2920
Total	0.7870	2.4441	9.3621	0.0170	1.0673	0.0397	1.1070	0.2860	0.0364	0.3224		1,489.2691	1,489.2691	0.0508			1,490.3367

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3021	2.0079	3.5230	5.2300e-003	0.1469	0.0329	0.1798	0.0418	0.0302	0.0720		521.9585	521.9585	4.1100e-003			522.0447
Worker	0.4849	0.4362	5.8391	0.0118	0.9205	6.7600e-003	0.9272	0.2442	6.2100e-003	0.2504		967.3106	967.3106	0.0467			968.2920
Total	0.7870	2.4441	9.3621	0.0170	1.0673	0.0397	1.1070	0.2860	0.0364	0.3224		1,489.2691	1,489.2691	0.0508			1,490.3367

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2605	1.7783	3.1548	5.2200e-003	0.1469	0.0277	0.1746	0.0418	0.0255	0.0673		513.1746	513.1746	3.8300e-003			513.2550
Worker	0.4324	0.3899	5.2273	0.0118	0.9205	6.5400e-003	0.9270	0.2442	6.0300e-003	0.2502		929.1579	929.1579	0.0426			930.0532
Total	0.6928	2.1682	8.3821	0.0170	1.0673	0.0343	1.1016	0.2860	0.0315	0.3175		1,442.3326	1,442.3326	0.0465			1,443.3082

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2605	1.7783	3.1548	5.2200e-003	0.1469	0.0277	0.1746	0.0418	0.0255	0.0673		513.1746	513.1746	3.8300e-003			513.2550
Worker	0.4324	0.3899	5.2273	0.0118	0.9205	6.5400e-003	0.9270	0.2442	6.0300e-003	0.2502		929.1579	929.1579	0.0426			930.0532
Total	0.6928	2.1682	8.3821	0.0170	1.0673	0.0343	1.1016	0.2860	0.0315	0.3175		1,442.3326	1,442.3326	0.0465			1,443.3082

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003			153.7278
Total	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003			153.7278

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003			153.7278
Total	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003			153.7278

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	144.6224					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	144.9547	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0858	0.0773	1.0368	2.3300e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		184.2958	184.2958	8.4600e-003			184.4734
Total	0.0858	0.0773	1.0368	2.3300e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		184.2958	184.2958	8.4600e-003			184.4734

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	144.6224					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	144.9547	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0773	1.0368	2.3300e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		184.2958	184.2958	8.4600e-003		184.4734
Total	0.0858	0.0773	1.0368	2.3300e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		184.2958	184.2958	8.4600e-003		184.4734

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.3303	32.3629	184.6836	0.2893	18.1476	0.3978	18.5454	4.8478	0.3657	5.2135		24,176.59 12	24,176.59 12	1.0996		24,199.68 18
Unmitigated	32.1337	36.8016	207.1052	0.3496	22.2955	0.4688	22.7643	5.9558	0.4311	6.3869		29,219.66 82	29,219.66 82	1.2795		29,246.53 80

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	1,942,908
Strip Mall	576.16	546.52	265.59	648,730	528,039
Supermarket	4,837.28	8,402.32	7874.78	4,974,412	4,048,964
Total	6,342.63	9,958.40	8,996.24	8,010,129	6,519,911

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
NaturalGas Unmitigated	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3854.31	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Strip Mall	201.233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Supermarket	3401.35	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Total		0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.201233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Supermarket	3.40135	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Apartments Mid Rise	3.85431	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Total		0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Unmitigated	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3081					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	0.3665	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638		20.9591	20.9591	0.0211		21.4013
Total	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3081					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	0.3665	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638		20.9591	20.9591	0.0211		21.4013
Total	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

2025 L Street - Operational Emissions Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	376
Supermarket	47.31	1000sqft	1.19	47,313.00	0
Strip Mall	13.00	1000sqft	0.67	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - acreage is size of site footprint

Mobile Land Use Mitigation - LUT-4 is distance to Capitol building

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	1.19
tblLandUse	LotAcreage	0.30	0.67
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	5.1400	54.7128	41.8894	0.0424	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	4,194.5676	4,194.5676	1.2331	0.0000	4,220.4627
2017	145.0288	28.7941	27.5794	0.0423	1.0673	1.8159	2.8832	0.2860	1.7049	1.9908	0.0000	3,964.1497	3,964.1497	0.6963	0.0000	3,978.7716
Total	150.1688	83.5069	69.4688	0.0847	19.2705	4.7556	24.0261	10.2530	4.4094	14.6623	0.0000	8,158.7173	8,158.7173	1.9294	0.0000	8,199.2344

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	5.1400	54.7128	41.8894	0.0424	18.2032	2.9397	21.1429	9.9670	2.7045	12.6715	0.0000	4,194.5676	4,194.5676	1.2331	0.0000	4,220.4627
2017	145.0288	28.7941	27.5794	0.0423	1.0673	1.8159	2.8832	0.2860	1.7049	1.9908	0.0000	3,964.1497	3,964.1497	0.6963	0.0000	3,978.7716
Total	150.1688	83.5069	69.4688	0.0847	19.2705	4.7556	24.0261	10.2530	4.4094	14.6623	0.0000	8,158.7173	8,158.7173	1.9294	0.0000	8,199.2343

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Energy	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
Mobile	29.9966	41.5422	251.3126	0.3170	22.2955	0.4754	22.7709	5.9558	0.4372	6.3930		26,526.25 46	26,526.25 46	1.2814		26,553.16 34
Total	35.4648	42.3876	263.5165	0.3220	22.2955	0.5948	22.8903	5.9558	0.5566	6.5124	0.0000	27,424.49 53	27,424.49 53	1.3192	0.0161	27,457.18 54

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Energy	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
Mobile	29.2378	36.4296	233.1089	0.2629	18.1476	0.4044	18.5520	4.8478	0.3718	5.2196		21,970.87 68	21,970.87 68	1.1014		21,994.00 64
Total	34.7060	37.2750	245.3129	0.2679	18.1476	0.5238	18.6713	4.8478	0.4912	5.3389	0.0000	22,869.11 75	22,869.11 75	1.1393	0.0161	22,898.02 84

	ROG	NOx	CO	SO2	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	2.14	12.06	6.91	16.81	18.60	11.94	18.43	18.60	11.75	18.02	0.00	16.61	16.61	13.64	0.00	16.60

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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 90,470; Non-Residential Outdoor: 30,157 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	121.00	25.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
Total	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374
Total	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343		4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862
Total	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	5.0771	54.6323	41.1053	0.0391	18.0663	2.9387	21.0049	9.9307	2.7036	12.6343	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003			126.4862
Total	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003			126.4862

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332			3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900		3,093.7889	3,093.7889	0.9332			3,113.3860

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003			105.4052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000	
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332			3,113.3860
Total	3.6669	38.4466	26.0787	0.0298	6.5523	2.1984	8.7507	3.3675	2.0225	5.3900	0.0000	3,093.7889	3,093.7889	0.9332			3,113.3860

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052
Total	0.0524	0.0671	0.6534	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		105.2835	105.2835	5.7900e-003		105.4052

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3976	2.1528	5.1430	5.2100e-003	0.1469	0.0334	0.1803	0.0418	0.0307	0.0725		517.4108	517.4108	4.2300e-003			517.4997
Worker	0.4231	0.5412	5.2709	0.0103	0.9205	6.7600e-003	0.9272	0.2442	6.2100e-003	0.2504		849.2871	849.2871	0.0467			850.2684
Total	0.8207	2.6940	10.4139	0.0155	1.0673	0.0402	1.1075	0.2860	0.0369	0.3229		1,366.6979	1,366.6979	0.0510			1,367.7681

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3976	2.1528	5.1430	5.2100e-003	0.1469	0.0334	0.1803	0.0418	0.0307	0.0725		517.4108	517.4108	4.2300e-003			517.4997
Worker	0.4231	0.5412	5.2709	0.0103	0.9205	6.7600e-003	0.9272	0.2442	6.2100e-003	0.2504		849.2871	849.2871	0.0467			850.2684
Total	0.8207	2.6940	10.4139	0.0155	1.0673	0.0402	1.1075	0.2860	0.0369	0.3229		1,366.6979	1,366.6979	0.0510			1,367.7681

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3397	1.9051	4.7683	5.2000e-003	0.1469	0.0281	0.1750	0.0418	0.0259	0.0677		508.6859	508.6859	3.9500e-003			508.7688
Worker	0.3735	0.4833	4.6820	0.0103	0.9205	6.5400e-003	0.9270	0.2442	6.0300e-003	0.2502		815.6586	815.6586	0.0426			816.5538
Total	0.7132	2.3885	9.4503	0.0155	1.0673	0.0347	1.1020	0.2860	0.0319	0.3179		1,324.3444	1,324.3444	0.0466			1,325.3226

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
Total	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3397	1.9051	4.7683	5.2000e-003	0.1469	0.0281	0.1750	0.0418	0.0259	0.0677		508.6859	508.6859	3.9500e-003			508.7688
Worker	0.3735	0.4833	4.6820	0.0103	0.9205	6.5400e-003	0.9270	0.2442	6.0300e-003	0.2502		815.6586	815.6586	0.0426			816.5538
Total	0.7132	2.3885	9.4503	0.0155	1.0673	0.0347	1.1020	0.2860	0.0319	0.3179		1,324.3444	1,324.3444	0.0466			1,325.3226

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003			134.9676
Total	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003			134.9676

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003			134.9676
Total	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003			134.9676

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	144.6224					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	144.9547	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0741	0.0959	0.9287	2.0500e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		161.7835	161.7835	8.4600e-003			161.9611
Total	0.0741	0.0959	0.9287	2.0500e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		161.7835	161.7835	8.4600e-003			161.9611

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	144.6224					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
Total	144.9547	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0741	0.0959	0.9287	2.0500e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		161.7835	161.7835	8.4600e-003		161.9611
Total	0.0741	0.0959	0.9287	2.0500e-003	0.1826	1.3000e-003	0.1839	0.0484	1.2000e-003	0.0496		161.7835	161.7835	8.4600e-003		161.9611

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.2378	36.4296	233.1089	0.2629	18.1476	0.4044	18.5520	4.8478	0.3718	5.2196		21,970.8768	21,970.8768	1.1014		21,994.0064
Unmitigated	29.9966	41.5422	251.3126	0.3170	22.2955	0.4754	22.7709	5.9558	0.4372	6.3930		26,526.2546	26,526.2546	1.2814		26,553.1634

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	1,942,908
Strip Mall	576.16	546.52	265.59	648,730	528,039
Supermarket	4,837.28	8,402.32	7874.78	4,974,412	4,048,964
Total	6,342.63	9,958.40	8,996.24	8,010,129	6,519,911

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207
NaturalGas Unmitigated	0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3854.31	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Strip Mall	201.233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Supermarket	3401.35	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Total		0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.201233	2.1700e-003	0.0197	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6745	23.6745	4.5000e-004	4.3000e-004	23.8185
Supermarket	3.40135	0.0367	0.3335	0.2801	2.0000e-003		0.0253	0.0253		0.0253	0.0253		400.1589	400.1589	7.6700e-003	7.3400e-003	402.5942
Apartments Mid Rise	3.85431	0.0416	0.3552	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.4483	453.4483	8.6900e-003	8.3100e-003	456.2079
Total		0.0804	0.7084	0.4478	4.3900e-003		0.0556	0.0556		0.0556	0.0556		877.2817	877.2817	0.0168	0.0161	882.6207

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013
Unmitigated	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3081					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	0.3665	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638		20.9591	20.9591	0.0211		21.4013
Total	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3081					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	0.3665	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638		20.9591	20.9591	0.0211		21.4013
Total	5.3878	0.1370	11.7561	6.1000e-004		0.0638	0.0638		0.0638	0.0638	0.0000	20.9591	20.9591	0.0211	0.0000	21.4013

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

2025 L Street - Operational Emissions Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	141.00	Dwelling Unit	1.19	141,000.00	376
Supermarket	47.31	1000sqft	1.19	47,313.00	0
Strip Mall	13.00	1000sqft	0.67	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2017
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - acreage is size of site footprint

Mobile Land Use Mitigation - LUT-4 is distance to Capitol building

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	3.71	1.19
tblLandUse	LotAcreage	1.09	1.19
tblLandUse	LotAcreage	0.30	0.67
tblProjectCharacteristics	OperationalYear	2014	2017

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					
2016	0.5437	4.2942	3.7259	5.5000e-003	0.1908	0.2679	0.4587	0.0704	0.2511	0.3215	0.0000	479.4662	479.4662	0.0901	0.0000	481.3577
2017	1.3244	0.2010	0.1704	2.7000e-004	3.9400e-003	0.0125	0.0164	1.0500e-003	0.0116	0.0127	0.0000	23.7104	23.7104	5.5600e-003	0.0000	23.8272
Total	1.8682	4.4952	3.8963	5.7700e-003	0.1948	0.2804	0.4751	0.0714	0.2628	0.3342	0.0000	503.1765	503.1765	0.0956	0.0000	505.1849

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					
2016	0.5437	4.2942	3.7259	5.5000e-003	0.1908	0.2679	0.4587	0.0704	0.2511	0.3215	0.0000	479.4658	479.4658	0.0901	0.0000	481.3573
2017	1.3244	0.2010	0.1704	2.7000e-004	3.9400e-003	0.0125	0.0164	1.0500e-003	0.0116	0.0127	0.0000	23.7103	23.7103	5.5600e-003	0.0000	23.8272
Total	1.8682	4.4952	3.8963	5.7700e-003	0.1948	0.2804	0.4751	0.0714	0.2628	0.3342	0.0000	503.1761	503.1761	0.0956	0.0000	505.1845

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

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	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269
Energy	0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	867.9466	867.9466	0.0383	0.0100	871.8533
Mobile	3.7345	5.3620	28.8871	0.0446	2.9816	0.0646	3.0463	0.7988	0.0594	0.8582	0.0000	3,390.1337	3,390.1337	0.1588	0.0000	3,393.4675
Waste						0.0000	0.0000		0.0000	0.0000	70.1009	0.0000	70.1009	4.1428	0.0000	157.1006
Water						0.0000	0.0000		0.0000	0.0000	5.6543	27.4714	33.1257	0.0208	0.0126	37.4611
Total	4.7113	5.5084	30.4383	0.0455	2.9816	0.0828	3.0644	0.7988	0.0776	0.8763	75.7552	4,287.9284	4,363.6836	4.3631	0.0226	4,462.3093

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269
Energy	0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	867.9466	867.9466	0.0383	0.0100	871.8533
Mobile	3.6297	4.6938	26.3144	0.0369	2.4269	0.0548	2.4817	0.6502	0.0504	0.7006	0.0000	2,805.7228	2,805.7228	0.1362	0.0000	2,808.5826
Waste						0.0000	0.0000		0.0000	0.0000	70.1009	0.0000	70.1009	4.1428	0.0000	157.1006
Water						0.0000	0.0000		0.0000	0.0000	5.6543	27.4714	33.1257	0.0209	0.0126	37.4674
Total	4.6066	4.8402	27.8656	0.0378	2.4269	0.0729	2.4998	0.6502	0.0685	0.7187	75.7552	3,703.5175	3,779.2727	4.3406	0.0226	3,877.4307

	ROG	NOx	CO	SO2	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	2.22	12.13	8.45	16.85	18.60	11.88	18.42	18.60	11.66	17.99	0.00	13.63	13.39	0.52	-0.04	13.11

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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 285,525; Residential Outdoor: 95,175; Non-Residential Indoor: 90,470; Non-Residential Outdoor: 30,157 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	162	0.38
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	6.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	121.00	25.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00		10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2016

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	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092
Total	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
Total	5.0000e-004	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843

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	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092
Total	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843
Total	5.0000e-004	6.0000e-004	6.2900e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9832	0.9832	5.0000e-005	0.0000	0.9843

3.3 Site Preparation - 2016

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
Total	0.0127	0.1366	0.1028	1.0000e-004	0.0452	7.3500e-003	0.0525	0.0248	6.7600e-003	0.0316	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777

3.3 Site Preparation - 2016

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	1.8000e-004	1.8900e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2950	0.2950	2.0000e-005	0.0000	0.2953
Total	1.5000e-004	1.8000e-004	1.8900e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2950	0.2950	2.0000e-005	0.0000	0.2953

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
Total	0.0127	0.1366	0.1028	1.0000e-004	0.0452	7.3500e-003	0.0525	0.0248	6.7600e-003	0.0316	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777

3.3 Site Preparation - 2016

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	1.8000e-004	1.8900e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2950	0.2950	2.0000e-005	0.0000	0.2953
Total	1.5000e-004	1.8000e-004	1.8900e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2950	0.2950	2.0000e-005	0.0000	0.2953

3.4 Grading - 2016

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977
Total	0.0147	0.1538	0.1043	1.2000e-004	0.0262	8.7900e-003	0.0350	0.0135	8.0900e-003	0.0216	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977

3.4 Grading - 2016

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	2.4000e-004	2.5200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3933	0.3933	2.0000e-005	0.0000	0.3937
Total	2.0000e-004	2.4000e-004	2.5200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3933	0.3933	2.0000e-005	0.0000	0.3937

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977
Total	0.0147	0.1538	0.1043	1.2000e-004	0.0262	8.7900e-003	0.0350	0.0135	8.0900e-003	0.0216	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977

3.4 Grading - 2016

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	2.4000e-004	2.5200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3933	0.3933	2.0000e-005	0.0000	0.3937
Total	2.0000e-004	2.4000e-004	2.5200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3933	0.3933	2.0000e-005	0.0000	0.3937

3.5 Building Construction - 2016

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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0551	276.0551	0.0685	0.0000	277.4929
Total	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0551	276.0551	0.0685	0.0000	277.4929

3.5 Building Construction - 2016

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	0.0381	0.2413	0.4696	6.0000e-004	0.0163	3.7800e-003	0.0200	4.6500e-003	3.4700e-003	8.1100e-003	0.0000	53.7829	53.7829	4.3000e-004	0.0000	53.7920
Worker	0.0463	0.0552	0.5785	1.2100e-003	0.1013	7.7000e-004	0.1021	0.0269	7.1000e-004	0.0277	0.0000	90.4135	90.4135	4.8300e-003	0.0000	90.5150
Total	0.0843	0.2965	1.0481	1.8100e-003	0.1176	4.5500e-003	0.1221	0.0316	4.1800e-003	0.0358	0.0000	144.1965	144.1965	5.2600e-003	0.0000	144.3070

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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0548	276.0548	0.0685	0.0000	277.4926
Total	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0548	276.0548	0.0685	0.0000	277.4926

3.5 Building Construction - 2016**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	0.0381	0.2413	0.4696	6.0000e-004	0.0163	3.7800e-003	0.0200	4.6500e-003	3.4700e-003	8.1100e-003	0.0000	53.7829	53.7829	4.3000e-004	0.0000	53.7920
Worker	0.0463	0.0552	0.5785	1.2100e-003	0.1013	7.7000e-004	0.1021	0.0269	7.1000e-004	0.0277	0.0000	90.4135	90.4135	4.8300e-003	0.0000	90.5150
Total	0.0843	0.2965	1.0481	1.8100e-003	0.1176	4.5500e-003	0.1221	0.0316	4.1800e-003	0.0358	0.0000	144.1965	144.1965	5.2600e-003	0.0000	144.3070

3.5 Building Construction - 2017**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	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
Total	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072

3.5 Building Construction - 2017

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	2.9000e-004	1.8700e-003	3.7700e-003	1.0000e-005	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4638	0.4638	0.0000	0.0000	0.4639
Worker	3.6000e-004	4.3000e-004	4.5300e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7617	0.7617	4.0000e-005	0.0000	0.7625
Total	6.5000e-004	2.3000e-003	8.3000e-003	2.0000e-005	1.0300e-003	4.0000e-005	1.0700e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	1.2256	1.2256	4.0000e-005	0.0000	1.2265

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	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
Total	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072

3.5 Building Construction - 2017

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	2.9000e-004	1.8700e-003	3.7700e-003	1.0000e-005	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4638	0.4638	0.0000	0.0000	0.4639
Worker	3.6000e-004	4.3000e-004	4.5300e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7617	0.7617	4.0000e-005	0.0000	0.7625
Total	6.5000e-004	2.3000e-003	8.3000e-003	2.0000e-005	1.0300e-003	4.0000e-005	1.0700e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	1.2256	1.2256	4.0000e-005	0.0000	1.2265

3.6 Paving - 2017

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	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950

3.6 Paving - 2017

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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344

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	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950

3.6 Paving - 2017

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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344

3.7 Architectural Coating - 2017

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	1.3016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	1.3046	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030

3.7 Architectural Coating - 2017

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	6.4000e-004	7.7000e-004	8.0800e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3598	1.3598	7.0000e-005	0.0000	1.3612
Total	6.4000e-004	7.7000e-004	8.0800e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3598	1.3598	7.0000e-005	0.0000	1.3612

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	1.3016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	1.3046	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030

3.7 Architectural Coating - 2017

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	6.4000e-004	7.7000e-004	8.0800e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3598	1.3598	7.0000e-005	0.0000	1.3612
Total	6.4000e-004	7.7000e-004	8.0800e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3598	1.3598	7.0000e-005	0.0000	1.3612

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6297	4.6938	26.3144	0.0369	2.4269	0.0548	2.4817	0.6502	0.0504	0.7006	0.0000	2,805.7228	2,805.7228	0.1362	0.0000	2,808.5826
Unmitigated	3.7345	5.3620	28.8871	0.0446	2.9816	0.0646	3.0463	0.7988	0.0594	0.8582	0.0000	3,390.1337	3,390.1337	0.1588	0.0000	3,393.4675

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	929.19	1,009.56	855.87	2,386,987	1,942,908
Strip Mall	576.16	546.52	265.59	648,730	528,039
Supermarket	4,837.28	8,402.32	7874.78	4,974,412	4,048,964
Total	6,342.63	9,958.40	8,996.24	8,010,129	6,519,911

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504380	0.068251	0.178421	0.147199	0.044767	0.006294	0.020809	0.016358	0.002307	0.002286	0.006181	0.000572	0.002175

5.0 Energy Detail

4.4 Fleet Mix

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	722.7028	722.7028	0.0355	7.3500e-003	725.7255
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	722.7028	722.7028	0.0355	7.3500e-003	725.7255
NaturalGas Mitigated	0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.2438	145.2438	2.7800e-003	2.6600e-003	146.1278
NaturalGas Unmitigated	0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.2438	145.2438	2.7800e-003	2.6600e-003	146.1278

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.40682e+006	7.5900e-003	0.0648	0.0276	4.1000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	75.0735	75.0735	1.4400e-003	1.3800e-003	75.5303
Strip Mall	73450	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434
Supermarket	1.24149e+006	6.6900e-003	0.0609	0.0511	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	66.2508	66.2508	1.2700e-003	1.2100e-003	66.6540
Total		0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.2438	145.2438	2.7900e-003	2.6600e-003	146.1278

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	73450	4.0000e-004	3.6000e-003	3.0200e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9196	3.9196	8.0000e-005	7.0000e-005	3.9434
Supermarket	1.24149e+006	6.6900e-003	0.0609	0.0511	3.7000e-004		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	66.2508	66.2508	1.2700e-003	1.2100e-003	66.6540
Apartments Mid Rise	1.40682e+006	7.5900e-003	0.0648	0.0276	4.1000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	75.0735	75.0735	1.4400e-003	1.3800e-003	75.5303
Total		0.0147	0.1293	0.0817	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	145.2438	145.2438	2.7900e-003	2.6600e-003	146.1278

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	510193	136.6093	6.7100e-003	1.3900e-003	137.1807
Strip Mall	168610	45.1470	2.2200e-003	4.6000e-004	45.3359
Supermarket	2.02027e+006	540.9464	0.0266	5.5000e-003	543.2089
Total		722.7028	0.0355	7.3500e-003	725.7255

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	510193	136.6093	6.7100e-003	1.3900e-003	137.1807
Strip Mall	168610	45.1470	2.2200e-003	4.6000e-004	45.3359
Supermarket	2.02027e+006	540.9464	0.0266	5.5000e-003	543.2089
Total		722.7028	0.0355	7.3500e-003	725.7255

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	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269
Unmitigated	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269

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	0.1302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7862					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	0.0458	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269
Total	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7862					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	0.0458	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269
Total	0.9622	0.0171	1.4695	8.0000e-005		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	2.3767	2.3767	2.3900e-003	0.0000	2.4269

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.1257	0.0209	0.0126	37.4674
Unmitigated	33.1257	0.0208	0.0126	37.4611

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.18672 / 5.79163	20.9343	0.0121	7.2500e-003	23.4344
Strip Mall	0.962943 / 0.590191	2.1785	1.2600e-003	7.6000e-004	2.4405
Supermarket	5.83182 / 0.180366	10.0128	7.4900e-003	4.5700e-003	11.5862
Total		33.1257	0.0208	0.0126	37.4611

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.18672 / 5.79163	20.9343	0.0121	7.2600e-003	23.4380
Strip Mall	0.962943 / 0.590191	2.1785	1.2700e-003	7.6000e-004	2.4409
Supermarket	5.83182 / 0.180366	10.0128	7.5200e-003	4.5700e-003	11.5885
Total		33.1257	0.0209	0.0126	37.4674

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	70.1009	4.1428	0.0000	157.1006
Unmitigated	70.1009	4.1428	0.0000	157.1006

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	64.86	13.1660	0.7781	0.0000	29.5058
Strip Mall	13.65	2.7708	0.1638	0.0000	6.2096
Supermarket	266.83	54.1641	3.2010	0.0000	121.3852
Total		70.1009	4.1429	0.0000	157.1006

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	64.86	13.1660	0.7781	0.0000	29.5058
Strip Mall	13.65	2.7708	0.1638	0.0000	6.2096
Supermarket	266.83	54.1641	3.2010	0.0000	121.3852
Total		70.1009	4.1429	0.0000	157.1006

9.0 Operational Offroad

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

**2025 L Street
Operational Emissions**

Summer	Pollutants (lbs/day)			
Emissions Source	ROG	NO_x	PM₁₀	PM_{2.5}
Area	5.39	0.14	0.06	0.06
Energy	0.08	0.71	0.06	0.06
Mobile	1.73	7.34	0.86	0.39
Total	7.20	8.18	0.98	0.51

Winter	Pollutants (lbs/day)			
Emissions Source	ROG	NO_x	PM₁₀	PM_{2.5}
Area	5.39	0.14	0.06	0.06
Energy	0.08	0.71	0.06	0.06
Mobile	1.73	7.34	0.86	0.39
Total	7.20	8.18	0.98	0.51

Maximum Daily	Pollutants (lbs/day)				Annual
Emissions Source	ROG	NO_x	PM₁₀	PM_{2.5}	MT CO₂e
Area	5.39	0.14	0.06	0.06	2
Energy	0.08	0.71	0.06	0.06	872
Mobile	1.73	7.34	0.86	0.39	1,218.41
Waste					157
Water					37
Total	7.20	8.18	0.98	0.51	2,287

Calendar Year	Season	Title	Veh & Tech	EMFAC2007 Category	Vehicle Population	VMT	Trips	Total CO2 Emissions
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	ALL	ALL	175.11	6,905.00	1,128.08	3.68
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	All Other Buses - DSL	OBUS - DSL	0.09	4.66		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDA - DSL	LDA - DSL	0.34	12.58	2.06	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDA - GAS	LDA - GAS	87.62	3,470.16	553.41	1.35
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDT1 - DSL	LDT1 - DSL	0.02	0.60	0.09	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDT1 - GAS	LDT1 - GAS	12.56	470.67	76.67	0.21
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDT2 - DSL	LDT2 - DSL	0.01	0.60	0.09	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LDT2 - GAS	LDT2 - GAS	30.30	1,231.40	190.75	0.65
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LHD1 - DSL	LHD1 - DSL	2.64	112.04	33.19	0.07
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LHD1 - GAS	LHD1 - GAS	4.65	197.07	69.23	0.22
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LHD2 - DSL	LHD2 - DSL	0.63	26.50	7.96	0.02
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	LHD2 - GAS	LHD2 - GAS	0.40	16.95	5.95	0.02
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	MCY - GAS	MCY - GAS	5.00	42.68	9.99	0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	MDV - DSL	MDV - DSL	0.03	1.03	0.15	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	MDV - GAS	MDV - GAS	25.69	1,015.37	159.36	0.68
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	MH - DSL	MH - DSL	0.16	2.06	0.02	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	MH - GAS	MH - GAS	0.96	12.96	0.10	0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	Motor Coach - DSL	OBUS - DSL	0.03	4.77		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	OBUS - GAS	OBUS - GAS	0.14	6.50	6.17	0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	PTO - DSL	HHDT - DSL	0.00	1.54		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	SBUS - DSL	SBUS - DSL	0.07	2.65		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	SBUS - GAS	SBUS - GAS	0.03	1.30	0.12	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 Ag - DSL	MHDT - DSL	0.15	4.86		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 CAIRP heavy - DSL	MHDT - DSL	0.00	0.15		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 CAIRP small - DSL	MHDT - DSL	0.01	0.49		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 instate construction heavy - DSL	MHDT - DSL	0.09	4.76		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 instate construction small - DSL	MHDT - DSL	0.19	12.60		0.02
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 instate heavy - DSL	MHDT - DSL	0.41	22.46		0.03
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 instate small - DSL	MHDT - DSL	0.94	62.33		0.08
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 OOS heavy - DSL	MHDT - DSL	0.00	0.08		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 OOS small - DSL	MHDT - DSL	0.00	0.28		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 Public - DSL	MHDT - DSL	0.46	8.31		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6 utility - DSL	MHDT - DSL	0.02	0.49		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T6T5 - GAS	MHDT - GAS	0.56	26.88	11.20	0.02
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 Ag - DSL	HHDT - DSL	0.07	4.39		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 CAIRP - DSL	HHDT - DSL	0.11	25.69		0.05
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 CAIRP construction - DSL	HHDT - DSL	0.01	1.19		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 NNOOS - DSL	HHDT - DSL	0.10	28.90		0.06
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 NOOS - DSL	HHDT - DSL	0.04	9.36		0.02
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 other port - DSL	HHDT - DSL	0.00	0.28		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 POAK - DSL	HHDT - DSL	0.00	0.72		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 POLA - DSL	HHDT - DSL	0.00	0.00		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 Public - DSL	HHDT - DSL	0.11	2.83		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 Single - DSL	HHDT - DSL	0.08	6.41		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 single construction - DSL	HHDT - DSL	0.04	3.08		0.01
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 SWCV - DSL	HHDT - DSL	0.03	1.59		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 tractor - DSL	HHDT - DSL	0.11	17.06		0.03
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 tractor construction - DSL	HHDT - DSL	0.03	2.30		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7 utility - DSL	HHDT - DSL	0.00	0.10		0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	T7IS - GAS	HHDT - GAS	0.05	7.50	1.09	0.00
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	UBUS - DSL	UBUS - DSL	0.08	10.26	0.32	0.03
2017 Annual		Group #1 (-), Scenario #1 - Sacramento (SV) 2017 Annual	UBUS - GAS	UBUS - GAS	0.04	5.53	0.17	0.00

EMFAC2011 Emissions Inventory

Region Type: County

Region: Sacramento

Calendar Year: 2017

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	ROG_TOTEX (tons/day)	NOx_TOTEX (tons/day)	PM10_TOTAL (tons/day)	PM2_5_TOTAL (tons/day)
Sacramento	2017	Annual	LDA	GAS	Aggregate	Aggregate	51075.8	20227407	3225814	1.057871738	2.537537453	1.045628433	0.439883636
Sacramento	2017	Annual	LDA	DSL	Aggregate	Aggregate	1979.234	73335.63	11981.29	0.002264076	0.035135031	0.005196578	0.002887609
Sacramento	2017	Annual	LDT1	GAS	Aggregate	Aggregate	73238.09	2743528	446897.9	0.353216105	0.795104881	0.14718076	0.064605302
Sacramento	2017	Annual	LDT1	DSL	Aggregate	Aggregate	96.19477	3497.954	536.7816	0.000166756	0.001748298	0.000306056	0.000191267
Sacramento	2017	Annual	LDT2	GAS	Aggregate	Aggregate	176633.1	7177748	1111880	0.497510531	1.580955563	0.371278239	0.15632985
Sacramento	2017	Annual	LDT2	DSL	Aggregate	Aggregate	83.26142	3495.411	507.0322	0.000100513	0.001715317	0.000244745	0.000134928
Sacramento	2017	Annual	LHD1	GAS	Aggregate	Aggregate	27085.08	1148730	403527.3	0.510698392	1.378262665	0.060867968	0.026362286
Sacramento	2017	Annual	LHD1	DSL	Aggregate	Aggregate	15380.08	653088.9	193462.1	0.158999049	2.633150482	0.098912161	0.05816796
Sacramento	2017	Annual	LHD2	GAS	Aggregate	Aggregate	2329.684	98822.02	34708.82	0.033754492	0.102513918	0.005155314	0.002189065
Sacramento	2017	Annual	LHD2	DSL	Aggregate	Aggregate	3686.609	154496.2	46372.9	0.034507338	0.584699312	0.024897806	0.014073119
Sacramento	2017	Annual	MCY	GAS	Aggregate	Aggregate	29123.53	248783.5	58241.24	0.814361101	0.353469393	0.012484794	0.005040544
Sacramento	2017	Annual	MDV	GAS	Aggregate	Aggregate	149771.9	5918562	928879.3	0.900765716	2.617933179	0.309867174	0.132314329
Sacramento	2017	Annual	MDV	DSL	Aggregate	Aggregate	147.4741	6025.845	881.1631	0.000196336	0.002492115	0.000451085	0.000259434
Sacramento	2017	Annual	MH	GAS	Aggregate	Aggregate	5618.487	75559.27	562.0735	0.012910727	0.067315075	0.003910054	0.001645236
Sacramento	2017	Annual	MH	DSL	Aggregate	Aggregate	910.4575	11982.6	91.04575	0.003163244	0.100414693	0.004497059	0.003185052
Sacramento	2017	Annual	Motor Coa	DSL	Aggregate	Aggregate	195.9446	27808.21	0	0.008340761	0.198472093	0.006646376	0.003904783
Sacramento	2017	Annual	OBUS	GAS	Aggregate	Aggregate	788.091	37876.22	35990.74	0.037826223	0.107817756	0.001933143	0.000799139
Sacramento	2017	Annual	PTO	DSL	Aggregate	Aggregate	0	8958.92	0	0.002225588	0.083112123	0.000578469	0.000532191
Sacramento	2017	Annual	SBUS	GAS	Aggregate	Aggregate	173.7048	7559.418	694.819	0.018293635	0.02328309	0.00045231	0.000220475
Sacramento	2017	Annual	SBUS	DSL	Aggregate	Aggregate	422.1898	15468.55	0	0.004221539	0.200029153	0.014955518	0.00738099
Sacramento	2017	Annual	T6 Ag	DSL	Aggregate	Aggregate	855.4606	28320.46	0	0.010349133	0.149413316	0.00974652	0.006716209
Sacramento	2017	Annual	T6 Public	DSL	Aggregate	Aggregate	2682.105	48463.24	0	0.004959561	0.334841255	0.00973818	0.005107815
Sacramento	2017	Annual	T6 CAIRP h	DSL	Aggregate	Aggregate	13.35285	849.9653	0	0.000117505	0.00308627	0.000173743	9.22979E-05
Sacramento	2017	Annual	T6 CAIRP s	DSL	Aggregate	Aggregate	39.71422	2834.433	0	0.000494013	0.006021644	0.000657216	0.00037939
Sacramento	2017	Annual	T6 OOS he	DSL	Aggregate	Aggregate	7.65547	487.3028	0	6.73682E-05	0.001769423	9.96105E-05	5.29163E-05
Sacramento	2017	Annual	T6 OOS sm	DSL	Aggregate	Aggregate	22.76899	1625.039	0	0.000283228	0.0003452334	0.000376796	0.000217512
Sacramento	2017	Annual	T6 instate	DSL	Aggregate	Aggregate	516.1854	27729.11	0	0.004011925	0.17634942	0.005933729	0.003255434
Sacramento	2017	Annual	T6 instate	DSL	Aggregate	Aggregate	1129.771	73467.23	0	0.017625227	0.252110445	0.020832359	0.013327424
Sacramento	2017	Annual	T6 instate	DSL	Aggregate	Aggregate	2365.681	130890.5	0	0.018776556	0.742183489	0.027726849	0.015106999
Sacramento	2017	Annual	T6 instate	DSL	Aggregate	Aggregate	5461.658	363303.8	0	0.081510548	1.132085173	0.098681891	0.061916054
Sacramento	2017	Annual	T6 utility	DSL	Aggregate	Aggregate	143.9081	2859.671	0	0.000295519	0.011117971	0.000547871	0.000276787
Sacramento	2017	Annual	T6TS	GAS	Aggregate	Aggregate	3262.342	156690.3	65272.95	0.135785756	0.281398782	0.008168234	0.003442147
Sacramento	2017	Annual	T7 Ag	DSL	Aggregate	Aggregate	383.6165	25587.94	0	0.011382428	0.24568733	0.008067821	0.005886281
Sacramento	2017	Annual	T7 CAIRP	DSL	Aggregate	Aggregate	625.389	149752.1	0	0.059040789	0.734565443	0.029966602	0.01857924
Sacramento	2017	Annual	T7 CAIRP c	DSL	Aggregate	Aggregate	29.26484	6942.59	0	0.002735265	0.035179244	0.001391383	0.000863289
Sacramento	2017	Annual	T7 NNOOS	DSL	Aggregate	Aggregate	606.9903	168465.6	0	0.062508509	0.541911948	0.030322288	0.017783053
Sacramento	2017	Annual	T7 NOOS	DSL	Aggregate	Aggregate	227.7508	54535.93	0	0.023105232	0.277165454	0.010951397	0.006801344
Sacramento	2017	Annual	T7 other p	DSL	Aggregate	Aggregate	10.50174	1642.095	0	0.000947952	0.014050992	0.00038	0.000251021
Sacramento	2017	Annual	T7 POAK	DSL	Aggregate	Aggregate	24.95186	4217.447	0	0.00254633	0.036754739	0.000977856	0.000646443
Sacramento	2017	Annual	T7 POLA	DSL	Aggregate	Aggregate	0	0	0	0	0	0	0
Sacramento	2017	Annual	T7 Public	DSL	Aggregate	Aggregate	666.5554	16518.18	0	0.005133369	0.290960265	0.003269019	0.002015866
Sacramento	2017	Annual	T7 Single	DSL	Aggregate	Aggregate	466.5525	37372.94	0	0.0075372	0.311070264	0.006449736	0.003690157
Sacramento	2017	Annual	T7 single c	DSL	Aggregate	Aggregate	226.4983	17959.57	0	0.003594633	0.154618758	0.003108231	0.00178141
Sacramento	2017	Annual	T7 SWCV	DSL	Aggregate	Aggregate	185.3435	9271.212	0	0.002396573	0.104139719	0.001613765	0.000928087
Sacramento	2017	Annual	T7 tractor	DSL	Aggregate	Aggregate	623.4188	99462.67	0	0.027449443	0.753495863	0.019803688	0.012248375
Sacramento	2017	Annual	T7 tractor	DSL	Aggregate	Aggregate	172.3326	13390.19	0	0.003931736	0.11525494	0.002678491	0.001660362
Sacramento	2017	Annual	T7 utility	DSL	Aggregate	Aggregate	24.44481	608.921	0	0.000240986	0.006382629	9.93171E-05	5.48166E-05
Sacramento	2017	Annual	T7IS	GAS	Aggregate	Aggregate	317.8403	43723.14	6359.349	0.05228791	0.235387465	0.002245241	0.000926032
Sacramento	2017	Annual	UBUS	GAS	Aggregate	Aggregate	249.6739	32246.32	998.6953	0.026847682	0.101181033	0.001633858	0.000669858
Sacramento	2017	Annual	UBUS	DSL	Aggregate	Aggregate	462.8334	59776.68	1851.334	0.032839607	0.764342408	0.070565288	0.037307517
Sacramento	2017	Annual	All Other B	DSL	Aggregate	Aggregate	502.4055	27168.28	0	0.00436955	0.159950204	0.005929723	0.003296317

Total VMT
40248896

Total Emissions (tons/day)			
5.054565396	21.38108981	2.497580746	1.145387647

Emission Factors (lbs/mi)			
0.0003	0.0011	0.0001	0.0001

