

Appendix A: Air Quality, Greenhouse Gas, and Energy Supporting Information

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A.1 - CalEEMod Output Files

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Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

**Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year
Napa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	130.89	1000sqft	3.00	130,890.00	0
Other Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0
Other Non-Asphalt Surfaces	2.71	Acre	2.71	0.00	0
Parking Lot	32.00	Space	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	233.79	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity Factor based on 2030 Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b.

Land Use - As provided by Applicant(Conceptual Site & Circulation Plan 1A-12.10.2019). 32 parking stalls acreage accounted in 3.08 Acres(Other Asphalt Surface). 2.71 acre unpaved area to account for landscaping on-site.

Construction Phase - Operations Only.

Off-road Equipment - Operations Only.

Off-road Equipment -

Trips and VMT - Operations Only.

Demolition - Operations Only.

Grading - Balanced on site.

Architectural Coating - Operations Only.

Vehicle Trips - The project would not generate any new trips that were not analyzed in the Napa Airport Corporate Center Project Environmental Impact Report.

Energy Use -

Construction Off-road Equipment Mitigation - Operations Only.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	65,445.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	196,335.00	0.00
tblArchitecturalCoating	ConstArea_Parking	8,050.00	0.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	118,047.60	0.00
tblLandUse	LandUseSquareFeet	12,800.00	0.00
tblLandUse	LotAcreage	0.29	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	233.79
tblTripsAndVMT	WorkerTripNumber	22.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Energy	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	298.9098	298.9098	0.0178	6.3200e-003	301.2372
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	32.9454	0.0000	32.9454	1.9470	0.0000	81.6209
Water						0.0000	0.0000		0.0000	0.0000	9.6027	17.3683	26.9710	0.9885	0.0237	58.7551
Total	0.6097	0.1693	0.1437	1.0200e-003	0.0000	0.0129	0.0129	0.0000	0.0129	0.0129	42.5482	316.2811	358.8293	2.9532	0.0301	441.6163

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Energy	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	298.9098	298.9098	0.0178	6.3200e-003	301.2372
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	32.9454	0.0000	32.9454	1.9470	0.0000	81.6209
Water						0.0000	0.0000		0.0000	0.0000	9.6027	17.3683	26.9710	0.9885	0.0237	58.7551
Total	0.6097	0.1693	0.1437	1.0200e-003	0.0000	0.0129	0.0129	0.0000	0.0129	0.0129	42.5482	316.2811	358.8293	2.9532	0.0301	441.6163

	ROG	NOx	CO	SO2	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	Architectural Coating	Architectural Coating	8/25/2021	8/24/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 5.79

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Architectural Coating - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.623911	0.031449	0.164057	0.095380	0.013597	0.004624	0.015860	0.039066	0.003868	0.001518	0.004990	0.001015	0.000663
Other Asphalt Surfaces	0.623911	0.031449	0.164057	0.095380	0.013597	0.004624	0.015860	0.039066	0.003868	0.001518	0.004990	0.001015	0.000663
Other Non-Asphalt Surfaces	0.623911	0.031449	0.164057	0.095380	0.013597	0.004624	0.015860	0.039066	0.003868	0.001518	0.004990	0.001015	0.000663
Parking Lot	0.623911	0.031449	0.164057	0.095380	0.013597	0.004624	0.015860	0.039066	0.003868	0.001518	0.004990	0.001015	0.000663

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	114.6511	114.6511	0.0142	2.9400e-003	115.8835
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	114.6511	114.6511	0.0142	2.9400e-003	115.8835
Natural Gas Mitigated	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
Natural Gas Unmitigated	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	3.45288e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	3.45288e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08115e+006	114.6511	0.0142	2.9400e-003	115.8835
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		114.6511	0.0142	2.9400e-003	115.8835

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08115e+006	114.6511	0.0142	2.9400e-003	115.8835
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		114.6511	0.0142	2.9400e-003	115.8835

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Unmitigated	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Total	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Total	0.5911	1.0000e-005	1.5400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.9710	0.9885	0.0237	58.7551
Unmitigated	26.9710	0.9885	0.0237	58.7551

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	30.2683 / 0	26.9710	0.9885	0.0237	58.7551
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		26.9710	0.9885	0.0237	58.7551

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	30.2683 / 0	26.9710	0.9885	0.0237	58.7551
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		26.9710	0.9885	0.0237	58.7551

8.0 Waste Detail

8.1 Mitigation Measures Waste

Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.9454	1.9470	0.0000	81.6209
Unmitigated	32.9454	1.9470	0.0000	81.6209

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	162.3	32.9454	1.9470	0.0000	81.6209
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		32.9454	1.9470	0.0000	81.6209

Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	162.3	32.9454	1.9470	0.0000	81.6209
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		32.9454	1.9470	0.0000	81.6209

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - 2030 Operational Year - Napa County, Annual

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Devlin Road C&D Facility Mitigated Run-Parcel 1A
Napa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	130.89	1000sqft	3.00	130,890.00	0
Other Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0
Other Non-Asphalt Surfaces	2.71	Acre	2.71	0.00	0
Parking Lot	32.00	Space	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b.

Land Use - As provided by Applicant(Conceptual Site & Circulation Plan 1A-12.10.2019). 32 parking stalls acreage accounted in 3.08 Acres(Other Asphalt Surface). 2.71 acre unpaved area to account for landscaping on-site.

Construction Phase - Mobilizing Equipment - Installing Green Waste Grinder and Processing Equipment. Shifting Sorting equipment from old facility. 3 days for 3 equipment and additional days for contingency.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment to mobilize and install Green Waste Grinder and Processing Equipment and Sorting equipment.

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Assuming the existing 2222 square feet weighing scale(as measure in Google Earth) will be demolished. Square footage converted to tons of debris.

Grading - Balanced on site.

Vehicle Trips - The project would not generate any new trips that were not analyzed in the Napa Airport Corporate Center Project Environmental Impact Report.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust. All diesel equipment will be Tier 3 engines or equivalent - Required by MM AIR-3b.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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
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	230.00	5.00
tblLandUse	LandUseSquareFeet	118,047.60	0.00
tblLandUse	LandUseSquareFeet	12,800.00	0.00
tblLandUse	LotAcreage	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	1.32	0.00

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tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2020	9-30-2020	1.1038	0.6158
2	10-1-2020	12-31-2020	0.9048	0.6943
3	1-1-2021	3-31-2021	0.8011	0.6586
4	4-1-2021	6-30-2021	0.8051	0.6610
5	7-1-2021	9-30-2021	1.1767	1.0964
		Highest	1.1767	1.0964

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	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Energy	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	375.8343	375.8343	0.0178	6.3200e-003	378.1616
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	32.9454	0.0000	32.9454	1.9470	0.0000	81.6209
Water						0.0000	0.0000		0.0000	0.0000	9.6027	29.0215	38.6242	0.9885	0.0237	70.4082
Total	0.6097	0.1693	0.1437	1.0200e-003	0.0000	0.0129	0.0129	0.0000	0.0129	0.0129	42.5482	404.8588	447.4069	2.9532	0.0301	530.1940

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Energy	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	375.8343	375.8343	0.0178	6.3200e-003	378.1616
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	32.9454	0.0000	32.9454	1.9470	0.0000	81.6209
Water						0.0000	0.0000		0.0000	0.0000	9.6027	29.0215	38.6242	0.9885	0.0237	70.4082
Total	0.6097	0.1693	0.1437	1.0200e-003	0.0000	0.0129	0.0129	0.0000	0.0129	0.0129	42.5482	404.8588	447.4069	2.9532	0.0301	530.1940

	ROG	NOx	CO	SO2	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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Building Construction	Building Construction	9/9/2020	7/27/2021	5	230	
5	Paving	Paving	7/28/2021	8/24/2021	5	20	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	
7	Mobilizing Equipment	Building Construction	9/22/2021	9/28/2021	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 196,335; Non-Residential Outdoor: 65,445; Striped Parking Area: 8,050 (Architectural Coating – sqft)

OffRoad Equipment

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

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

Trips and VMT

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilizing Equipment	9	111.00	43.00	0.00	10.80	7.30	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

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1000e-004	0.0000	4.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	0.0331	0.3320	0.2175	3.9000e-004	4.1000e-004	0.0166	0.0170	6.0000e-005	0.0154	0.0155	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1524	0.1524	1.0000e-005	0.0000	0.1526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	6.0000e-004	1.0200e-003	4.4400e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.1764	1.1764	4.0000e-005	0.0000	1.1773

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					1.9000e-004	0.0000	1.9000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		8.6300e-003	8.6300e-003		8.6300e-003	8.6300e-003	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	9.2500e-003	0.1831	0.2467	3.9000e-004	1.9000e-004	8.6300e-003	8.8200e-003	3.0000e-005	8.6300e-003	8.6600e-003	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1524	0.1524	1.0000e-005	0.0000	0.1526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	6.0000e-004	1.0200e-003	4.4400e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	1.1764	1.1764	4.0000e-005	0.0000	1.1773

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148
Total	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148

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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		4.7300e-003	4.7300e-003		4.7300e-003	4.7300e-003	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	4.6600e-003	0.0953	0.1148	1.9000e-004	0.0407	4.7300e-003	0.0454	0.0223	4.7300e-003	0.0271	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148
Total	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	0.0243	0.2639	0.1605	3.0000e-004	0.0655	0.0127	0.0783	0.0337	0.0117	0.0454	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247

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					0.0295	0.0000	0.0295	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	7.2600e-003	0.1484	0.1899	3.0000e-004	0.0295	7.5600e-003	0.0371	0.0152	7.5600e-003	0.0227	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0869	0.7866	0.6908	1.1000e-003		0.0458	0.0458		0.0431	0.0431	0.0000	94.9601	94.9601	0.0232	0.0000	95.5393
Total	0.0869	0.7866	0.6908	1.1000e-003		0.0458	0.0458		0.0431	0.0431	0.0000	94.9601	94.9601	0.0232	0.0000	95.5393

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.2141	0.0570	4.8000e-004	0.0116	1.1800e-003	0.0127	3.3400e-003	1.1200e-003	4.4600e-003	0.0000	45.7569	45.7569	2.3800e-003	0.0000	45.8165
Worker	0.0176	0.0127	0.1310	3.4000e-004	0.0360	2.5000e-004	0.0362	9.5700e-003	2.3000e-004	9.8000e-003	0.0000	31.0662	31.0662	8.7000e-004	0.0000	31.0881
Total	0.0251	0.2269	0.1881	8.2000e-004	0.0475	1.4300e-003	0.0489	0.0129	1.3500e-003	0.0143	0.0000	76.8232	76.8232	3.2500e-003	0.0000	76.9046

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	0.0276	0.5833	0.7328	1.1000e-003		0.0371	0.0371		0.0371	0.0371	0.0000	94.9600	94.9600	0.0232	0.0000	95.5392
Total	0.0276	0.5833	0.7328	1.1000e-003		0.0371	0.0371		0.0371	0.0371	0.0000	94.9600	94.9600	0.0232	0.0000	95.5392

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.2141	0.0570	4.8000e-004	0.0116	1.1800e-003	0.0127	3.3400e-003	1.1200e-003	4.4600e-003	0.0000	45.7569	45.7569	2.3800e-003	0.0000	45.8165
Worker	0.0176	0.0127	0.1310	3.4000e-004	0.0360	2.5000e-004	0.0362	9.5700e-003	2.3000e-004	9.8000e-003	0.0000	31.0662	31.0662	8.7000e-004	0.0000	31.0881
Total	0.0251	0.2269	0.1881	8.2000e-004	0.0475	1.4300e-003	0.0489	0.0129	1.3500e-003	0.0143	0.0000	76.8232	76.8232	3.2500e-003	0.0000	76.9046

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1407	1.2900	1.2266	1.9900e-003		0.0709	0.0709		0.0667	0.0667	0.0000	171.4116	171.4116	0.0414	0.0000	172.4454
Total	0.1407	1.2900	1.2266	1.9900e-003		0.0709	0.0709		0.0667	0.0667	0.0000	171.4116	171.4116	0.0414	0.0000	172.4454

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3474	0.0908	8.5000e-004	0.0208	7.9000e-004	0.0216	6.0300e-003	7.6000e-004	6.7800e-003	0.0000	81.9065	81.9065	4.1700e-003	0.0000	82.0107
Worker	0.0294	0.0205	0.2155	6.0000e-004	0.0649	4.4000e-004	0.0653	0.0173	4.0000e-004	0.0177	0.0000	54.1228	54.1228	1.4100e-003	0.0000	54.1581
Total	0.0402	0.3679	0.3062	1.4500e-003	0.0858	1.2300e-003	0.0870	0.0233	1.1600e-003	0.0245	0.0000	136.0294	136.0294	5.5800e-003	0.0000	136.1689

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	0.0499	1.0527	1.3227	1.9900e-003		0.0669	0.0669		0.0669	0.0669	0.0000	171.4114	171.4114	0.0414	0.0000	172.4452
Total	0.0499	1.0527	1.3227	1.9900e-003		0.0669	0.0669		0.0669	0.0669	0.0000	171.4114	171.4114	0.0414	0.0000	172.4452

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3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3474	0.0908	8.5000e-004	0.0208	7.9000e-004	0.0216	6.0300e-003	7.6000e-004	6.7800e-003	0.0000	81.9065	81.9065	4.1700e-003	0.0000	82.0107
Worker	0.0294	0.0205	0.2155	6.0000e-004	0.0649	4.4000e-004	0.0653	0.0173	4.0000e-004	0.0177	0.0000	54.1228	54.1228	1.4100e-003	0.0000	54.1581
Total	0.0402	0.3679	0.3062	1.4500e-003	0.0858	1.2300e-003	0.0870	0.0233	1.1600e-003	0.0245	0.0000	136.0294	136.0294	5.5800e-003	0.0000	136.1689

3.6 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	4.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0166	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	3.9300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9884	0.9884	3.0000e-005	0.0000	0.9890
Total	5.4000e-004	3.7000e-004	3.9300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9884	0.9884	3.0000e-005	0.0000	0.9890

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		6.0900e-003	6.0900e-003		6.0900e-003	6.0900e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	4.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6400e-003	0.1130	0.1730	2.3000e-004		6.0900e-003	6.0900e-003		6.0900e-003	6.0900e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.7000e-004	3.9300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9884	0.9884	3.0000e-005	0.0000	0.9890
Total	5.4000e-004	3.7000e-004	3.9300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9884	0.9884	3.0000e-005	0.0000	0.9890

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.7127	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.5000e-004	5.7700e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4496	1.4496	4.0000e-005	0.0000	1.4506
Total	7.9000e-004	5.5000e-004	5.7700e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4496	1.4496	4.0000e-005	0.0000	1.4506

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	0.7105					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	1.8000e-004	0.0000	2.5576
Total	0.7111	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	1.8000e-004	0.0000	2.5576

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3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.5000e-004	5.7700e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4496	1.4496	4.0000e-005	0.0000	1.4506
Total	7.9000e-004	5.5000e-004	5.7700e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4496	1.4496	4.0000e-005	0.0000	1.4506

3.8 Mobilizing Equipment - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7500e-003	0.0436	0.0414	7.0000e-005		2.4000e-003	2.4000e-003		2.2500e-003	2.2500e-003	0.0000	5.7909	5.7909	1.4000e-003	0.0000	5.8259
Total	4.7500e-003	0.0436	0.0414	7.0000e-005		2.4000e-003	2.4000e-003		2.2500e-003	2.2500e-003	0.0000	5.7909	5.7909	1.4000e-003	0.0000	5.8259

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3.8 Mobilizing Equipment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0117	3.0700e-003	3.0000e-005	7.0000e-004	3.0000e-005	7.3000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	2.7671	2.7671	1.4000e-004	0.0000	2.7706
Worker	9.9000e-004	6.9000e-004	7.2800e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8285	1.8285	5.0000e-005	0.0000	1.8297
Total	1.3600e-003	0.0124	0.0104	5.0000e-005	2.8900e-003	4.0000e-005	2.9400e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	4.5956	4.5956	1.9000e-004	0.0000	4.6003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6800e-003	0.0356	0.0447	7.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	5.7909	5.7909	1.4000e-003	0.0000	5.8259
Total	1.6800e-003	0.0356	0.0447	7.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	5.7909	5.7909	1.4000e-003	0.0000	5.8259

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

3.8 Mobilizing Equipment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0117	3.0700e-003	3.0000e-005	7.0000e-004	3.0000e-005	7.3000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	2.7671	2.7671	1.4000e-004	0.0000	2.7706
Worker	9.9000e-004	6.9000e-004	7.2800e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8285	1.8285	5.0000e-005	0.0000	1.8297
Total	1.3600e-003	0.0124	0.0104	5.0000e-005	2.8900e-003	4.0000e-005	2.9400e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	4.5956	4.5956	1.9000e-004	0.0000	4.6003

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Parking Lot	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	191.5756	191.5756	0.0142	2.9400e-003	192.8079
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	191.5756	191.5756	0.0142	2.9400e-003	192.8079
NaturalGas Mitigated	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
NaturalGas Unmitigated	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	3.45288e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	3.45288e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2587	184.2587	3.5300e-003	3.3800e-003	185.3537

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08115e+006	191.5756	0.0142	2.9400e-003	192.8079
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		191.5756	0.0142	2.9400e-003	192.8079

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08115e+006	191.5756	0.0142	2.9400e-003	192.8079
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		191.5756	0.0142	2.9400e-003	192.8079

6.0 Area Detail**6.1 Mitigation Measures Area**

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Unmitigated	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Total	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003
Total	0.5911	1.0000e-005	1.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.6242	0.9885	0.0237	70.4082
Unmitigated	38.6242	0.9885	0.0237	70.4082

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	30.2683 / 0	38.6242	0.9885	0.0237	70.4082
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		38.6242	0.9885	0.0237	70.4082

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	30.2683 / 0	38.6242	0.9885	0.0237	70.4082
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		38.6242	0.9885	0.0237	70.4082

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.9454	1.9470	0.0000	81.6209
Unmitigated	32.9454	1.9470	0.0000	81.6209

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	162.3	32.9454	1.9470	0.0000	81.6209
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		32.9454	1.9470	0.0000	81.6209

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	162.3	32.9454	1.9470	0.0000	81.6209
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		32.9454	1.9470	0.0000	81.6209

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

Devlin Road C&D Facility Mitigated Run-Parcel 1A
Napa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	130.89	1000sqft	3.00	130,890.00	0
Other Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0
Other Non-Asphalt Surfaces	2.71	Acre	2.71	0.00	0
Parking Lot	32.00	Space	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b.

Land Use - As provided by Applicant(Conceptual Site & Circulation Plan 1A-12.10.2019). 32 parking stalls acreage accounted in 3.08 Acres(Other Asphalt Surface). 2.71 acre unpaved area to account for landscaping on-site.

Construction Phase - Mobilizing Equipment - Installing Green Waste Grinder and Processing Equipment. Shifting Sorting equipment from old facility. 3 days for 3 equipment and additional days for contingency.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment to mobilize and install Green Waste Grinder and Processing Equipment and Sorting equipment.

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Assuming the existing 2222 square feet weighing scale(as measure in Google Earth) will be demolished. Square footage converted to tons of debris.

Grading - Balanced on site.

Vehicle Trips - The project would not generate any new trips that were not analyzed in the Napa Airport Corporate Center Project Environmental Impact Report.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust. All diesel equipment will be Tier 3 engines or equivalent - Required by MM AIR-3b.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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
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	230.00	5.00
tblLandUse	LandUseSquareFeet	118,047.60	0.00
tblLandUse	LandUseSquareFeet	12,800.00	0.00
tblLandUse	LotAcreage	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	1.32	0.00

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Energy	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.3415	0.9276	0.7963	5.5600e-003	0.0000	0.0706	0.0706	0.0000	0.0706	0.0706		1,112.9711	1,112.9711	0.0214	0.0204	1,119.5871

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Energy	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.3415	0.9276	0.7963	5.5600e-003	0.0000	0.0706	0.0706	0.0000	0.0706	0.0706		1,112.9711	1,112.9711	0.0214	0.0204	1,119.5871

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Building Construction	Building Construction	9/9/2020	7/27/2021	5	230	
5	Paving	Paving	7/28/2021	8/24/2021	5	20	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	
7	Mobilizing Equipment	Building Construction	9/22/2021	9/28/2021	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 196,335; Non-Residential Outdoor: 65,445; Striped Parking Area: 8,050 (Architectural Coating – sqft)

OffRoad Equipment

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

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

Trips and VMT

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilizing Equipment	9	111.00	43.00	0.00	10.80	7.30	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

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0414	0.0000	0.0414	6.2700e-003	0.0000	6.2700e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.0414	1.6587	1.7001	6.2700e-003	1.5419	1.5481		3,747.7049	3,747.7049	1.0580		3,774.1536

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6400e-003	0.0585	0.0113	1.6000e-004	3.4900e-003	2.0000e-004	3.6800e-003	9.5000e-004	1.9000e-004	1.1400e-003		16.9136	16.9136	8.1000e-004		16.9337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0625	0.0953	0.4749	1.3700e-003	0.1267	1.0200e-003	0.1277	0.0336	9.5000e-004	0.0346		137.6176	137.6176	4.1800e-003		137.7219

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					0.0186	0.0000	0.0186	2.8200e-003	0.0000	2.8200e-003			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	0.9246	18.3130	24.6739	0.0388	0.0186	0.8627	0.8814	2.8200e-003	0.8627	0.8655	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6400e-003	0.0585	0.0113	1.6000e-004	3.4900e-003	2.0000e-004	3.6800e-003	9.5000e-004	1.9000e-004	1.1400e-003		16.9136	16.9136	8.1000e-004		16.9337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0625	0.0953	0.4749	1.3700e-003	0.1267	1.0200e-003	0.1277	0.0336	9.5000e-004	0.0346		137.6176	137.6176	4.1800e-003		137.7219

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458
Total	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458
Total	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6
Total	0.7263	14.8397	18.9906	0.0297	2.9486	0.7555	3.7041	1.5154	0.7555	2.2709	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1793	5.1468	1.3076	0.0118	0.2907	0.0285	0.3192	0.0837	0.0273	0.1109		1,242.6463	1,242.6463	0.0618		1,244.1922
Worker	0.4501	0.2727	3.4301	8.9700e-003	0.9118	6.1000e-003	0.9179	0.2419	5.6300e-003	0.2475		893.2097	893.2097	0.0249		893.8326
Total	0.6294	5.4195	4.7376	0.0207	1.2026	0.0346	1.2372	0.3255	0.0329	0.3584		2,135.8560	2,135.8560	0.0868		2,138.0247

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1793	5.1468	1.3076	0.0118	0.2907	0.0285	0.3192	0.0837	0.0273	0.1109		1,242.6463	1,242.6463	0.0618		1,244.1922
Worker	0.4501	0.2727	3.4301	8.9700e-003	0.9118	6.1000e-003	0.9179	0.2419	5.6300e-003	0.2475		893.2097	893.2097	0.0249		893.8326
Total	0.6294	5.4195	4.7376	0.0207	1.2026	0.0346	1.2372	0.3255	0.0329	0.3584		2,135.8560	2,135.8560	0.0868		2,138.0247

3.5 Building Construction - 2021

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.6354	1.1486	0.0117	0.2908	0.0105	0.3013	0.0837	0.0101	0.0937		1,232.524 4	1,232.524 4	0.0599		1,234.021 0
Worker	0.4169	0.2436	3.1316	8.6600e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		862.1850	862.1850	0.0223		862.7424
Total	0.5603	4.8789	4.2802	0.0203	1.2026	0.0164	1.2190	0.3255	0.0155	0.3410		2,094.709 4	2,094.709 4	0.0822		2,096.763 5

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.6354	1.1486	0.0117	0.2908	0.0105	0.3013	0.0837	0.0101	0.0937		1,232.5244	1,232.5244	0.0599		1,234.0210
Worker	0.4169	0.2436	3.1316	8.6600e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		862.1850	862.1850	0.0223		862.7424
Total	0.5603	4.8789	4.2802	0.0203	1.2026	0.0164	1.2190	0.3255	0.0155	0.3410		2,094.7094	2,094.7094	0.0822		2,096.7635

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6590	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0329	0.4232	1.1700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		116.5115	116.5115	3.0100e-003		116.5868
Total	0.0563	0.0329	0.4232	1.1700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		116.5115	116.5115	3.0100e-003		116.5868

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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9644	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0563	0.0329	0.4232	1.1700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		116.5115	116.5115	3.0100e-003		116.5868
Total	0.0563	0.0329	0.4232	1.1700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		116.5115	116.5115	3.0100e-003		116.5868

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	71.0493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	71.2682	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0483	0.6207	1.7200e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		170.8835	170.8835	4.4200e-003		170.9940
Total	0.0826	0.0483	0.6207	1.7200e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		170.8835	170.8835	4.4200e-003		170.9940

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	71.0493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	71.1088	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0483	0.6207	1.7200e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		170.8835	170.8835	4.4200e-003		170.9940
Total	0.0826	0.0483	0.6207	1.7200e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		170.8835	170.8835	4.4200e-003		170.9940

3.8 Mobilizing Equipment - 2021

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.8 Mobilizing Equipment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.6354	1.1486	0.0117	0.2908	0.0105	0.3013	0.0837	0.0101	0.0937		1,232.524 4	1,232.524 4	0.0599		1,234.021 0
Worker	0.4169	0.2436	3.1316	8.6600e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		862.1850	862.1850	0.0223		862.7424
Total	0.5603	4.8789	4.2802	0.0203	1.2026	0.0164	1.2190	0.3255	0.0155	0.3410		2,094.709 4	2,094.709 4	0.0822		2,096.763 5

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

3.8 Mobilizing Equipment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.6354	1.1486	0.0117	0.2908	0.0105	0.3013	0.0837	0.0101	0.0937		1,232.524 4	1,232.524 4	0.0599		1,234.021 0
Worker	0.4169	0.2436	3.1316	8.6600e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		862.1850	862.1850	0.0223		862.7424
Total	0.5603	4.8789	4.2802	0.0203	1.2026	0.0164	1.2190	0.3255	0.0155	0.3410		2,094.709 4	2,094.709 4	0.0822		2,096.763 5

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Parking Lot	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
NaturalGas Unmitigated	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	9459.94	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	9.45994	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Unmitigated	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

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	0.3893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Total	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Total	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

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 Stationary Equipment

Fire Pumps and Emergency Generators

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

**Devlin Road C&D Facility Mitigated Run-Parcel 1A
Napa County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	130.89	1000sqft	3.00	130,890.00	0
Other Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0
Other Non-Asphalt Surfaces	2.71	Acre	2.71	0.00	0
Parking Lot	32.00	Space	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b.

Land Use - As provided by Applicant(Conceptual Site & Circulation Plan 1A-12.10.2019). 32 parking stalls acreage accounted in 3.08 Acres(Other Asphalt Surface). 2.71 acre unpaved area to account for landscaping on-site.

Construction Phase - Mobilizing Equipment - Installing Green Waste Grinder and Processing Equipment. Shifting Sorting equipment from old facility. 3 days for 3 equipment and additional days for contingency.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment to mobilize and install Green Waste Grinder and Processing Equipment and Sorting equipment.

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Assuming the existing 2222 square feet weighing scale(as measure in Google Earth) will be demolished. Square footage converted to tons of debris.

Grading - Balanced on site.

Vehicle Trips - The project would not generate any new trips that were not analyzed in the Napa Airport Corporate Center Project Environmental Impact Report.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust. All diesel equipment will be Tier 3 engines or equivalent - Required by MM AIR-3b.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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
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	230.00	5.00
tblLandUse	LandUseSquareFeet	118,047.60	0.00
tblLandUse	LandUseSquareFeet	12,800.00	0.00
tblLandUse	LotAcreage	0.29	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblVehicleTrips	ST_TR	1.32	0.00

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Energy	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.3415	0.9276	0.7963	5.5600e-003	0.0000	0.0706	0.0706	0.0000	0.0706	0.0706		1,112.9711	1,112.9711	0.0214	0.0204	1,119.5871

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Energy	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	3.3415	0.9276	0.7963	5.5600e-003	0.0000	0.0706	0.0706	0.0000	0.0706	0.0706		1,112.9711	1,112.9711	0.0214	0.0204	1,119.5871

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Building Construction	Building Construction	9/9/2020	7/27/2021	5	230	
5	Paving	Paving	7/28/2021	8/24/2021	5	20	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	
7	Mobilizing Equipment	Building Construction	9/22/2021	9/28/2021	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 196,335; Non-Residential Outdoor: 65,445; Striped Parking Area: 8,050 (Architectural Coating – sqft)

OffRoad Equipment

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

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

Trips and VMT

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilizing Equipment	9	111.00	43.00	0.00	10.80	7.30	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

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0414	0.0000	0.0414	6.2700e-003	0.0000	6.2700e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.0414	1.6587	1.7001	6.2700e-003	1.5419	1.5481		3,747.7049	3,747.7049	1.0580		3,774.1536

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6900e-003	0.0601	0.0122	1.6000e-004	3.4900e-003	2.0000e-004	3.6800e-003	9.5000e-004	1.9000e-004	1.1500e-003		16.6486	16.6486	8.5000e-004		16.6699
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0656	0.1069	0.4611	1.2800e-003	0.1267	1.0200e-003	0.1277	0.0336	9.5000e-004	0.0346		128.2949	128.2949	4.0500e-003		128.3963

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					0.0186	0.0000	0.0186	2.8200e-003	0.0000	2.8200e-003			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	0.9246	18.3130	24.6739	0.0388	0.0186	0.8627	0.8814	2.8200e-003	0.8627	0.8655	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6900e-003	0.0601	0.0122	1.6000e-004	3.4900e-003	2.0000e-004	3.6800e-003	9.5000e-004	1.9000e-004	1.1500e-003		16.6486	16.6486	8.5000e-004		16.6699
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0656	0.1069	0.4611	1.2800e-003	0.1267	1.0200e-003	0.1277	0.0336	9.5000e-004	0.0346		128.2949	128.2949	4.0500e-003		128.3963

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717
Total	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717
Total	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	0.7263	14.8397	18.9906	0.0297	2.9486	0.7555	3.7041	1.5154	0.7555	2.2709	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1887	5.2237	1.4974	0.0115	0.2907	0.0289	0.3196	0.0837	0.0277	0.1113		1,213.0376	1,213.0376	0.0669		1,214.7111
Worker	0.4731	0.3463	3.3224	8.3000e-003	0.9118	6.1000e-003	0.9179	0.2419	5.6300e-003	0.2475		826.1827	826.1827	0.0237		826.7755
Total	0.6618	5.5701	4.8197	0.0198	1.2026	0.0350	1.2376	0.3255	0.0333	0.3588		2,039.2203	2,039.2203	0.0907		2,041.4866

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1887	5.2237	1.4974	0.0115	0.2907	0.0289	0.3196	0.0837	0.0277	0.1113		1,213.0376	1,213.0376	0.0669		1,214.7111
Worker	0.4731	0.3463	3.3224	8.3000e-003	0.9118	6.1000e-003	0.9179	0.2419	5.6300e-003	0.2475		826.1827	826.1827	0.0237		826.7755
Total	0.6618	5.5701	4.8197	0.0198	1.2026	0.0350	1.2376	0.3255	0.0333	0.3588		2,039.2203	2,039.2203	0.0907		2,041.4866

3.5 Building Construction - 2021

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1522	4.6904	1.3242	0.0114	0.2908	0.0109	0.3016	0.0837	0.0104	0.0941		1,202.9269	1,202.9269	0.0650		1,204.5517
Worker	0.4379	0.3093	3.0235	8.0100e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		797.4803	797.4803	0.0212		798.0095
Total	0.5900	4.9997	4.3477	0.0194	1.2026	0.0168	1.2194	0.3255	0.0158	0.3414		2,000.4073	2,000.4073	0.0862		2,002.5613

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1522	4.6904	1.3242	0.0114	0.2908	0.0109	0.3016	0.0837	0.0104	0.0941		1,202.9269	1,202.9269	0.0650		1,204.5517
Worker	0.4379	0.3093	3.0235	8.0100e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		797.4803	797.4803	0.0212		798.0095
Total	0.5900	4.9997	4.3477	0.0194	1.2026	0.0168	1.2194	0.3255	0.0158	0.3414		2,000.4073	2,000.4073	0.0862		2,002.5613

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6590	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0418	0.4086	1.0800e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.7676	107.7676	2.8600e-003		107.8391
Total	0.0592	0.0418	0.4086	1.0800e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.7676	107.7676	2.8600e-003		107.8391

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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9644	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0418	0.4086	1.0800e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.7676	107.7676	2.8600e-003		107.8391
Total	0.0592	0.0418	0.4086	1.0800e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		107.7676	107.7676	2.8600e-003		107.8391

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	71.0493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	71.2682	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0613	0.5993	1.5900e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		158.0592	158.0592	4.2000e-003		158.1641
Total	0.0868	0.0613	0.5993	1.5900e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		158.0592	158.0592	4.2000e-003		158.1641

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	71.0493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	71.1088	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0613	0.5993	1.5900e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		158.0592	158.0592	4.2000e-003		158.1641
Total	0.0868	0.0613	0.5993	1.5900e-003	0.1807	1.1700e-003	0.1819	0.0479	1.0800e-003	0.0490		158.0592	158.0592	4.2000e-003		158.1641

3.8 Mobilizing Equipment - 2021

Unmitigated Construction On-Site

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

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.8 Mobilizing Equipment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1522	4.6904	1.3242	0.0114	0.2908	0.0109	0.3016	0.0837	0.0104	0.0941		1,202.9269	1,202.9269	0.0650		1,204.5517
Worker	0.4379	0.3093	3.0235	8.0100e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		797.4803	797.4803	0.0212		798.0095
Total	0.5900	4.9997	4.3477	0.0194	1.2026	0.0168	1.2194	0.3255	0.0158	0.3414		2,000.4073	2,000.4073	0.0862		2,002.5613

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

3.8 Mobilizing Equipment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1522	4.6904	1.3242	0.0114	0.2908	0.0109	0.3016	0.0837	0.0104	0.0941		1,202.9269	1,202.9269	0.0650			1,204.5517
Worker	0.4379	0.3093	3.0235	8.0100e-003	0.9118	5.9100e-003	0.9178	0.2419	5.4400e-003	0.2473		797.4803	797.4803	0.0212			798.0095
Total	0.5900	4.9997	4.3477	0.0194	1.2026	0.0168	1.2194	0.3255	0.0158	0.3414		2,000.4073	2,000.4073	0.0862			2,002.5613

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053
Parking Lot	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
NaturalGas Unmitigated	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	9459.94	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	9.45994	0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1020	0.9275	0.7791	5.5600e-003		0.0705	0.0705		0.0705	0.0705		1,112.9342	1,112.9342	0.0213	0.0204	1,119.5478

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Unmitigated	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

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	0.3893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Total	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8486					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6100e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394
Total	3.2395	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0369	0.0369	1.0000e-004		0.0394

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 Stationary Equipment

Fire Pumps and Emergency Generators

Devlin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B
Napa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	6.68	Acre	6.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	390.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b. Construction Only Run.

Land Use - As provided in Project Description, Parcel 1B would be 6.68 acres, graded and unpaved. Zero square feet as it is unpaved.

Construction Phase - Parcel 1b will be graded. No construction to occur on Parcel 1b as part of the project.

Grading - Balanced on site.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects. Tier 3- Required by MM AIR-3b.

Consumer Products - Construction Only Run.

Area Coating - Construction Only Run.

Solid Waste - Construction Only Run.

Landscape Equipment - Construction Only Run.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblLandUse	LandUseSquareFeet	290,980.80	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0456	0.4766	0.2750	5.0000e-004	0.1578	0.0237	0.1815	0.0838	0.0218	0.1057	0.0000	44.4124	44.4124	0.0139	0.0000	44.7594
Maximum	0.0456	0.4766	0.2750	5.0000e-004	0.1578	0.0237	0.1815	0.0838	0.0218	0.1057	0.0000	44.4124	44.4124	0.0139	0.0000	44.7594

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0129	0.2444	0.3116	5.0000e-004	0.0720	0.0123	0.0843	0.0380	0.0123	0.0503	0.0000	44.4123	44.4123	0.0139	0.0000	44.7593
Maximum	0.0129	0.2444	0.3116	5.0000e-004	0.0720	0.0123	0.0843	0.0380	0.0123	0.0503	0.0000	44.4123	44.4123	0.0139	0.0000	44.7593

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/11/2020	5	20	

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 6.68

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148
Total	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

3.2 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		4.7300e-003	4.7300e-003		4.7300e-003	4.7300e-003	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	4.6600e-003	0.0953	0.1148	1.9000e-004	0.0407	4.7300e-003	0.0454	0.0223	4.7300e-003	0.0271	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148
Total	3.5000e-004	2.5000e-004	2.5900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6144	0.6144	2.0000e-005	0.0000	0.6148

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	0.0243	0.2639	0.1605	3.0000e-004	0.0655	0.0127	0.0783	0.0337	0.0117	0.0454	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694

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	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

3.3 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0295	0.0000	0.0295	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	7.2600e-003	0.1484	0.1899	3.0000e-004	0.0295	7.5600e-003	0.0371	0.0152	7.5600e-003	0.0227	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694

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	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247
Total	5.8000e-004	4.2000e-004	4.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0239	1.0239	3.0000e-005	0.0000	1.0247

4.0 Operational Detail - Mobile

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

**Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B
Napa County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	6.68	Acre	6.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	390.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b. Construction Only Run.

Land Use - As provided in Project Description, Parcel 1B would be 6.68 acres, graded and unpaved. Zero square feet as it is unpaved.

Construction Phase - Parcel 1b will be graded. No construction to occur on Parcel 1b as part of the project.

Grading - Balanced on site.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects. Tier 3- Required by MM AIR-3b.

Consumer Products - Construction Only Run.

Area Coating - Construction Only Run.

Solid Waste - Construction Only Run.

Landscape Equipment - Construction Only Run.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblLandUse	LandUseSquareFeet	290,980.80	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1495	42.4616	22.0699	0.0395	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,829.9464	3,829.9464	1.1959	0.0000	3,859.8433
Maximum	4.1495	42.4616	22.0699	0.0395	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,829.9464	3,829.9464	1.1959	0.0000	3,859.8433

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.0041	19.1098	23.5163	0.0395	8.2777	0.9472	9.2249	4.5080	0.9471	5.4551	0.0000	3,829.9464	3,829.9464	1.1959	0.0000	3,859.8433
Maximum	1.0041	19.1098	23.5163	0.0395	8.2777	0.9472	9.2249	4.5080	0.9471	5.4551	0.0000	3,829.9464	3,829.9464	1.1959	0.0000	3,859.8433

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	75.80	54.99	-6.55	0.00	54.55	56.92	54.81	54.78	53.17	54.51	0.00	0.00	0.00	0.00	0.00	0.00

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

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	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/11/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 6.68

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458
Total	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458
Total	0.0730	0.0442	0.5562	1.4500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		144.8448	144.8448	4.0400e-003		144.9458

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	0.7263	14.8397	18.9906	0.0297	2.9486	0.7555	3.7041	1.5154	0.7555	2.2709	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882
Total	0.0608	0.0369	0.4635	1.2100e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		120.7040	120.7040	3.3700e-003		120.7882

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

5.0 Energy Detail

Historical Energy Use: N

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Unmitigated	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Summer

8.0 Waste Detail

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B
Napa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	6.68	Acre	6.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant. MM AIR-3b. Construction Only Run.

Land Use - As provided in Project Description, Parcel 1B would be 6.68 acres, graded and unpaved. Zero square feet as it is unpaved.

Construction Phase - Parcel 1b will be graded. No construction to occur on Parcel 1b as part of the project.

Grading - Balanced on site.

Energy Use -

Construction Off-road Equipment Mitigation - Compliance with BAAQMD Best Management Practices thresholds for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures for all Proposed Projects. Tier 3- Required by MM AIR-3b.

Consumer Products - Construction Only Run.

Area Coating - Construction Only Run.

Solid Waste - Construction Only Run.

Landscape Equipment - Construction Only Run.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblLandUse	LandUseSquareFeet	290,980.80	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00

2.0 Emissions Summary

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1532	42.4735	22.0524	0.0394	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,819.077 1	3,819.077 1	1.1957	0.0000	3,848.969 2
Maximum	4.1532	42.4735	22.0524	0.0394	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,819.077 1	3,819.077 1	1.1957	0.0000	3,848.969 2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.0079	19.1218	23.4988	0.0394	8.2777	0.9472	9.2249	4.5080	0.9471	5.4551	0.0000	3,819.077 1	3,819.077 1	1.1957	0.0000	3,848.969 2
Maximum	1.0079	19.1218	23.4988	0.0394	8.2777	0.9472	9.2249	4.5080	0.9471	5.4551	0.0000	3,819.077 1	3,819.077 1	1.1957	0.0000	3,848.969 2

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	75.73	54.98	-6.56	0.00	54.55	56.92	54.81	54.78	53.17	54.51	0.00	0.00	0.00	0.00	0.00	0.00

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

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	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000	0.0000	1.5600e-003

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/11/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 6.68

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717
Total	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717
Total	0.0767	0.0562	0.5388	1.3500e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		133.9756	133.9756	3.8500e-003		134.0717

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	0.7263	14.8397	18.9906	0.0297	2.9486	0.7555	3.7041	1.5154	0.7555	2.2709	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264
Total	0.0639	0.0468	0.4490	1.1200e-003	0.1232	8.2000e-004	0.1241	0.0327	7.6000e-004	0.0334		111.6463	111.6463	3.2000e-003		111.7264

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

5.0 Energy Detail

Historical Energy Use: N

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Unmitigated	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003
Total	6.0000e-005	1.0000e-005	6.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4600e-003	1.4600e-003	0.0000		1.5600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Devlin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Winter

8.0 Waste Detail

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

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

11.0 Vegetation

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

**Devlin Road - As analyzed in EIR - Operations Only Run
Napa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	254.08	1000sqft	15.65	254,080.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	390.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant.

Land Use - As analyzed in the Napa Airport Corporate Center Project Final EIR, Lot 4, Building H.

Construction Phase - Operations Only.

Off-road Equipment - Operations Only.

Trips and VMT - Operations Only.

Architectural Coating - Operations Only.

Energy Use -

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	127,040.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	381,120.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LotAcreage	5.83	15.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	21.00	0.00

2.0 Emissions Summary

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003
Energy	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	490.3511	490.3511	0.0336	7.6800e-003	493.4803
Mobile	0.1399	0.8436	1.7155	5.6800e-003	0.4645	5.5100e-003	0.4700	0.1247	5.1700e-003	0.1299	0.0000	522.7260	522.7260	0.0207	0.0000	523.2438
Waste						0.0000	0.0000		0.0000	0.0000	48.4824	0.0000	48.4824	2.8652	0.0000	120.1130
Water						0.0000	0.0000		0.0000	0.0000	18.6406	56.3357	74.9762	1.9188	0.0461	136.6744
Total	1.2701	0.8909	1.7575	5.9600e-003	0.4645	9.1100e-003	0.4736	0.1247	8.7700e-003	0.1335	67.1229	1,069.4173	1,136.5402	4.8383	0.0538	1,273.5164

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003
Energy	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	490.3511	490.3511	0.0336	7.6800e-003	493.4803
Mobile	0.1399	0.8436	1.7155	5.6800e-003	0.4645	5.5100e-003	0.4700	0.1247	5.1700e-003	0.1299	0.0000	522.7260	522.7260	0.0207	0.0000	523.2438
Waste						0.0000	0.0000		0.0000	0.0000	48.4824	0.0000	48.4824	2.8652	0.0000	120.1130
Water						0.0000	0.0000		0.0000	0.0000	18.6406	56.3357	74.9762	1.9188	0.0461	136.6744
Total	1.2701	0.8909	1.7575	5.9600e-003	0.4645	9.1100e-003	0.4736	0.1247	8.7700e-003	0.1335	67.1229	1,069.4173	1,136.5402	4.8383	0.0538	1,273.5164

	ROG	NOx	CO	SO2	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	Architectural Coating	Architectural Coating	12/15/2021	12/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

3.2 Architectural Coating - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1399	0.8436	1.7155	5.6800e-003	0.4645	5.5100e-003	0.4700	0.1247	5.1700e-003	0.1299	0.0000	522.7260	522.7260	0.0207	0.0000	523.2438
Unmitigated	0.1399	0.8436	1.7155	5.6800e-003	0.4645	5.5100e-003	0.4700	0.1247	5.1700e-003	0.1299	0.0000	522.7260	522.7260	0.0207	0.0000	523.2438

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	426.85	426.85	426.85	1,246,206	1,246,206
Total	426.85	426.85	426.85	1,246,206	1,246,206

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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	438.9638	438.9638	0.0326	6.7400e-003	441.7876
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	438.9638	438.9638	0.0326	6.7400e-003	441.7876
NaturalGas Mitigated	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928
NaturalGas Unmitigated	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Rail	962963	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928
Total		5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928

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					
Refrigerated Warehouse-No Rail	962963	5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928
Total		5.1900e-003	0.0472	0.0397	2.8000e-004		3.5900e-003	3.5900e-003		3.5900e-003	3.5900e-003	0.0000	51.3874	51.3874	9.8000e-004	9.4000e-004	51.6928

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Rail	2.47728e+006	438.9638	0.0326	6.7400e-003	441.7876
Total		438.9638	0.0326	6.7400e-003	441.7876

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Rail	2.47728e+006	438.9638	0.0326	6.7400e-003	441.7876
Total		438.9638	0.0326	6.7400e-003	441.7876

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003
Unmitigated	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9923					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003
Total	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9923					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003
Total	1.1250	2.0000e-005	2.3400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5400e-003	4.5400e-003	1.0000e-005	0.0000	4.8400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	74.9762	1.9188	0.0461	136.6744
Unmitigated	74.9762	1.9188	0.0461	136.6744

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No Rail	58.756 / 0	74.9762	1.9188	0.0461	136.6744
Total		74.9762	1.9188	0.0461	136.6744

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No Rail	58.756 / 0	74.9762	1.9188	0.0461	136.6744
Total		74.9762	1.9188	0.0461	136.6744

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	48.4824	2.8652	0.0000	120.1130
Unmitigated	48.4824	2.8652	0.0000	120.1130

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	238.84	48.4824	2.8652	0.0000	120.1130
Total		48.4824	2.8652	0.0000	120.1130

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	238.84	48.4824	2.8652	0.0000	120.1130
Total		48.4824	2.8652	0.0000	120.1130

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

**Devlin Road - As analyzed in EIR - Operations Only Run
Napa County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	254.08	1000sqft	15.65	254,080.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant.

Land Use - As analyzed in the Napa Airport Corporate Center Project Final EIR, Lot 4, Building H.

Construction Phase - Operations Only.

Off-road Equipment - Operations Only.

Trips and VMT - Operations Only.

Architectural Coating - Operations Only.

Energy Use -

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	127,040.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	381,120.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LotAcreage	5.83	15.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	21.00	0.00

2.0 Emissions Summary

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Energy	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Mobile	0.8653	4.4769	9.7681	0.0328	2.6513	0.0302	2.6815	0.7096	0.0284	0.7379		3,326.8712	3,326.8712	0.1261		3,330.0227
Total	7.0595	4.7358	10.0114	0.0344	2.6513	0.0499	2.7013	0.7096	0.0481	0.7577		3,637.3098	3,637.3098	0.1322	5.6900e-003	3,642.3094

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	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Energy	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Mobile	0.8653	4.4769	9.7681	0.0328	2.6513	0.0302	2.6815	0.7096	0.0284	0.7379		3,326.8712	3,326.8712	0.1261		3,330.0227
Total	7.0595	4.7358	10.0114	0.0344	2.6513	0.0499	2.7013	0.7096	0.0481	0.7577		3,637.3098	3,637.3098	0.1322	5.6900e-003	3,642.3094

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/15/2021	12/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

3.2 Architectural Coating - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8653	4.4769	9.7681	0.0328	2.6513	0.0302	2.6815	0.7096	0.0284	0.7379		3,326.8712	3,326.8712	0.1261		3,330.0227
Unmitigated	0.8653	4.4769	9.7681	0.0328	2.6513	0.0302	2.6815	0.7096	0.0284	0.7379		3,326.8712	3,326.8712	0.1261		3,330.0227

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	426.85	426.85	426.85	1,246,206	1,246,206
Total	426.85	426.85	426.85	1,246,206	1,246,206

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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
NaturalGas Unmitigated	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	2638.26	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Total		0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

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					
Refrigerated Warehouse-No Rail	2.63826	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Total		0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Unmitigated	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

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	0.7260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4373					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4300e-003	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Total	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4373					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4300e-003	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Total	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

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 Stationary Equipment

Fire Pumps and Emergency Generators

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Summer

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

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

**Devlin Road - As analyzed in EIR - Operations Only Run
Napa County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	254.08	1000sqft	15.65	254,080.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	390.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor based on Renewable Energy Portfolio Standard. Construction Start Date as provided by the Applicant.

Land Use - As analyzed in the Napa Airport Corporate Center Project Final EIR, Lot 4, Building H.

Construction Phase - Operations Only.

Off-road Equipment - Operations Only.

Trips and VMT - Operations Only.

Architectural Coating - Operations Only.

Energy Use -

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	127,040.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	381,120.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LotAcreage	5.83	15.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	390.65
tblTripsAndVMT	WorkerTripNumber	21.00	0.00

2.0 Emissions Summary

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Energy	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Mobile	0.7599	4.7375	9.9637	0.0309	2.6513	0.0304	2.6818	0.7096	0.0286	0.7382		3,134.3522	3,134.3522	0.1292		3,137.5820
Total	6.9541	4.9963	10.2071	0.0325	2.6513	0.0502	2.7015	0.7096	0.0484	0.7579		3,444.7908	3,444.7908	0.1353	5.6900e-003	3,449.8687

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	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Energy	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Mobile	0.7599	4.7375	9.9637	0.0309	2.6513	0.0304	2.6818	0.7096	0.0286	0.7382		3,134.3522	3,134.3522	0.1292		3,137.5820
Total	6.9541	4.9963	10.2071	0.0325	2.6513	0.0502	2.7015	0.7096	0.0484	0.7579		3,444.7908	3,444.7908	0.1353	5.6900e-003	3,449.8687

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/15/2021	12/14/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

3.2 Architectural Coating - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7599	4.7375	9.9637	0.0309	2.6513	0.0304	2.6818	0.7096	0.0286	0.7382		3,134.3522	3,134.3522	0.1292		3,137.5820
Unmitigated	0.7599	4.7375	9.9637	0.0309	2.6513	0.0304	2.6818	0.7096	0.0286	0.7382		3,134.3522	3,134.3522	0.1292		3,137.5820

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-No Rail	426.85	426.85	426.85	1,246,206	1,246,206
Total	426.85	426.85	426.85	1,246,206	1,246,206

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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated Warehouse-No Rail	0.578403	0.037565	0.170055	0.116185	0.024443	0.006261	0.017557	0.036177	0.003853	0.001839	0.005587	0.001024	0.001053

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
NaturalGas Unmitigated	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-No Rail	2638.26	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Total		0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

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					
Refrigerated Warehouse-No Rail	2.63826	0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274
Total		0.0285	0.2587	0.2173	1.5500e-003		0.0197	0.0197		0.0197	0.0197		310.3830	310.3830	5.9500e-003	5.6900e-003	312.2274

6.0 Area Detail

6.1 Mitigation Measures Area

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Unmitigated	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

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	0.7260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4373					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4300e-003	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Total	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4373					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4300e-003	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593
Total	6.1657	2.4000e-004	0.0260	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0556	0.0556	1.5000e-004		0.0593

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 Stationary Equipment

Fire Pumps and Emergency Generators

Devlin Road - As analyzed in EIR - Operations Only Run - Napa County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

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A.2 - Construction Health Risk Assessment

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Updated for 5363.0001 Devlin Road C&D

PARCEL 1A

Estimation of Annual Onsite Construction Emissions

Start of Construction	7/1/2020	1/1/2021	
End of Construction	12/31/2020	9/28/2021	Total
Number of Days	183	270	453
Number of Hours	4,392	6,480	10,872
Number of Construction Days	132	193	325
Number of Construction Hours (8 hours/day)	1,056	1,544	2,600

Size of the construction area source (Parcel 1A): 36,686 sq-meters

Year	On-site Construction Activity	Mitigated Onsite DPM (tons)	Mitigated Onsite PM2.5 (tons)
2020	Demolition	0.0086	0.0087
2020	Site Preparation	0.0047	0.0271
2020	Grading	0.0076	0.0227
2020	Building Construction	0.0371	0.0371
2021	Building Construction	0.0669	0.0669
2021	Paving	0.0061	0.0061
2021	Architectural Coating	0.0010	0.0010
2021	Building Construction(Equi.)	0.0023	0.0023

Total DPM 1.342E-01 tons

Average Emission
 1.219E+05 grams
 1.302E-02 grams/sec
 3.549E-07 grams/m2-sec

Total PM2.5 1.718E-01 tons

Average Emission
 1.560E+05 grams
 1.666E-02 grams/sec
 4.542E-07 grams/m2-sec

Updated for 5363.0001 Devlin Road C&D

Parcel 1B

Estimation of Annual Onsite Construction Emissions

Start of Construction	7/1/2020	
End of Construction	8/11/2020	Total
Number of Days	41	41
Number of Hours	984	984
Number of Construction Days	30	30
Number of Construction Hours (8 hours/day)	240	240

Size of the construction area source (Parcel 1B):

26,119 sq-meters

Year	On-site Construction Activity	Mitigated Onsite DPM (tons)	Mitigated Onsite PM2.5 (tons)
2020	Site Preparation—Trail	0.0047	0.0271
2020	Grading—Trail	0.0076	0.0227
Total DPM		1.229E-02	tons
Average Emission		1.116E+04 grams	
		1.292E-02 grams/sec	
		4.945E-07 grams/m2-sec	
Total PM2.5		4.980E-02	tons
Average Emission		4.522E+04 grams	
		5.234E-02 grams/sec	
		2.004E-06 grams/m2-sec	

Updated for 5363.0001 Devlin Road C&D

PARCEL 1A

Estimation of Annual Offsite Construction DPM Emissions

Start of Construction	7/1/2020	1/1/2021	
End of Construction	12/31/2020	9/28/2021	Total
Number of Days	183	270	453
Number of Hours	4,392	6,480	10,872
Number of Construction Days	132	193	325
Number of Construction Hours (8 hours/day)	1,056	1,544	2,600

		2020	2020	2020	2020	2021	2021	2021	2021
	Construction Trip Type		Site	Grading	Building Construction	Building Construction	Paving	Architectural Coating	2021 Building Construction (mobilizing equi.)
DPM	Haul Truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
DPM	Vendor Truck	0.00000	0.00000	0.00000	0.00112	0.00076	0.00000	0.00000	0.00003
DPM	Worker	0.00001	0.00000	0.00001	0.00023	0.00040	0.00001	0.00001	0.00001
DPM	Total	0.00001	0.00000	0.00001	0.01135	0.00116	0.00001	0.00001	0.00004
PM2.5 Total	Haul Truck	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PM2.5 Total	Vendor Truck	0.00000	0.00000	0.00000	0.00446	0.00678	0.00000	0.00000	0.00023
PM2.5 Total	Worker	0.00032	0.00019	0.00032	0.00980	0.01770	0.00032	0.00047	0.00060
PM2.5 Total	Total	0.00033	0.00019	0.00032	0.01430	0.02450	0.00032	0.00047	0.00083

		Haul Truck (tons)	Vendor Truck (tons)	Worker (tons)	Total (tons)				
Total DPM		0.000E+00	1.910E-03	6.800E-04	2.590E-03	Total PM2.5 Total		1.000E-05	4.120E-02
				Checking Total	2.590E-03			1.147E-02	2.972E-02
									Checking Total
									4.126E-02

		Grams	Grams/sec						
Average Emissions	Grams	0.000E+00	1.734E+03	6.174E+02		Average Emissions	Grams	9.080E+00	2.699E+04
	Grams/sec	0.000E+00	1.853E-04	6.597E-05			Grams/sec	9.701E-07	2.883E-03

Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8			Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8
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	Vehicle Travel Distances in the Construction HRA (miles)					Vehicle Travel Distances in the Construction HRA (miles)			
Going Away	Road Segment 1 (mi)	0.28	0.28	0.28	miles	Road Segment 1 (mi)	0.28	0.28	0.28
Coming to Site	Road Segment 2 (mi)	0.31	0.31	0.31	miles	Road Segment 2 (mi)	0.31	0.31	0.31

	Trip Distribution (percent)					Trip Distribution (percent)			
	Road Segment 1	50%	50%	50%		Road Segment 1	50%	50%	50%
	Road Segment 2	50%	50%	50%		Road Segment 2	50%	50%	50%

	Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)					Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)			
	Road Segment 1	0.000E+00	3.553E-06	8.551E-07	4.409E-06	Road Segment 1	6.791E-09	2.134E-05	5.872E-05
	Road Segment 2	0.000E+00	3.934E-06	9.467E-07	4.881E-06	Road Segment 2	7.518E-09	2.363E-05	6.501E-05

Updated for 5363.0001 Devlin Road C&D

Parcel 1B

Estimation of Annual Offsite Construction DPM Emissions

Start of Construction	7/1/2020		
End of Construction	8/11/2020		
Number of Days	41		Total
Number of Hours	984		41
Number of Construction Days	30		984
Number of Construction Hours (8 hours/day)	240		30
			240

2020 2020

	Construction Trip Type	Site Preparation	Grading
DPM	Haul Truck	0.00000	0.00000
DPM	Vendor Truck	0.00000	0.00000
DPM	Worker	0.00000	0.00001
DPM	Total	0.00000	0.00001
PM2.5 Total	Haul Truck	0.00000	0.00000
PM2.5 Total	Vendor Truck	0.00000	0.00000
PM2.5 Total	Worker	0.00019	0.00032
PM2.5 Total	Total	0.00019	0.00032

	Haul Truck (tons)	Vendor Truck (tons)	Worker (tons)	Total (tons)
Total DPM	0.000E+00	0.000E+00	1.000E-05	1.000E-05
			Checking Total	1.000E-05

	Haul Truck (tons)	Vendor Truck (tons)	Worker (tons)	Total (tons)
Total PM2.5 Total	0.000E+00	0.000E+00	5.100E-04	5.100E-04
			Checking Total	5.100E-04

Average Emissions	Grams	0.000E+00	0.000E+00	9.080E+00
	Grams/sec	0.000E+00	0.000E+00	1.051E-05

Average Emissions	Grams	0.000E+00	0.000E+00	4.631E+02
	Grams/sec	0.000E+00	0.000E+00	5.360E-04

Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8
Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8

	Vehicle Travel Distances in the Construction HRA (miles)				
Going Away	Road Segment 1 (mi)	0.28	0.28	0.28	miles
Coming to Site	Road Segment 2 (mi)	0.31	0.31	0.31	miles
					miles

	Vehicle Travel Distances in the Construction HRA (miles)				
	Road Segment 1 (mi)	0.28	0.28	0.28	miles
	Road Segment 2 (mi)	0.31	0.31	0.31	miles

	Trip Distribution (percent)			
	Road Segment 1	50%	50%	50%
	Road Segment 2	50%	50%	50%
		50%	50%	50%

	Trip Distribution (percent)			
	Road Segment 1	50%	50%	50%
	Road Segment 2	50%	50%	50%

	Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)			Total
	Road Segment 1	0.000E+00	0.000E+00	1.362E-07
	Road Segment 2	0.000E+00	0.000E+00	1.508E-07

	Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)			Total
	Road Segment 1	0.000E+00	0.000E+00	6.948E-06
	Road Segment 2	0.000E+00	0.000E+00	7.692E-06


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* AERMOD ( 1919 1): C:\Users\ap   atel\Desktop\De   vlin ROAD \Devlin   Constru
* AERMET ( 1413 4):
* MODELING OPTI ONS USED: Reg DFAULT CONC E   LEV URBA N
* PLOT          FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEAR   S FOR SO
* FOR A        TOTAL OF 32 RECEPTORS.
* FORMA       T: (3(1X,F13.5) ,3(1X,F8.2),2X,   A6,2X,A8, 2X,I8.8   ,2X,A8)
* X           Y           AVERAGE CONC   ZELEV   ZHILL   ZFLAG
*

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564981.67	4228939.16	59238.63957	20.55	20.55	0
564988.67	4228939.16	55186.22748	20.71	20.71	0
564995.67	4228939.16	51555.09715	20.84	20.84	0
565002.67	4228939.16	48272.78639	20.97	20.97	0
565009.67	4228939.16	45312.58948	21.07	21.07	0
565016.67	4228939.16	42596.54806	21.22	21.22	0
565023.67	4228939.16	40112.45077	21.39	21.39	0
565030.67	4228939.16	37843.13241	21.56	21.56	0
564981.67	4228946.16	59780.87004	20.35	20.35	0
564988.67	4228946.16	55698.02915	20.49	20.49	0
564995.67	4228946.16	52016.92087	20.63	20.63	0
565002.67	4228946.16	48688.37801	20.77	20.77	0
565009.67	4228946.16	45680.55875	20.89	20.89	0
565016.67	4228946.16	42930.59656	21.04	21.04	0
565023.67	4228946.16	40410.84932	21.22	21.22	0
565030.67	4228946.16	38105.26397	21.41	21.41	0
564981.67	4228953.16	60247.04528	20.18	20.18	0
564988.67	4228953.16	56153.45122	20.29	20.29	0
564995.67	4228953.16	52438.37962	20.43	20.43	0
565002.67	4228953.16	49076.59103	20.57	20.57	0
565009.67	4228953.16	46026.31697	20.71	20.71	0
565016.67	4228953.16	43241.94242	20.87	20.87	0
565023.67	4228953.16	40690.21503	21.06	21.06	0
565030.67	4228953.16	38355.35097	21.26	21.26	0
564981.67	4228960.16	60647.35469	20.03	20.03	0
564988.67	4228960.16	56547.90307	20.12	20.12	0
564995.67	4228960.16	52821.88856	20.24	20.24	0
565002.67	4228960.16	49434.12815	20.38	20.38	0
565009.67	4228960.16	46357.5552	20.52	20.52	0
565016.67	4228960.16	43537.73045	20.7	20.7	0
565023.67	4228960.16	40953.28686	20.91	20.91	0
565030.67	4228960.16	38592.07554	21.12	21.12	0

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** CONCUNIT ug/   m^3
** DEPUNIT g/m^   2

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patel\Desktop \Devlin RO AD\Devlin Constru ction HR A\Devlin C 3/5/2020
18:20:04

gDFAULT CONC ELEV UR BAN
VALUES AVERA GED ACRO'S YEAR S FOR SO URCE GRO UP: AREA2
2 RECEPTORS.

),3(1X,F8.2), 2X,A6,2X,A 8,2X,I8.8 ,2X,A8)

AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS NET ID

AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM YRS	NET ID
43768.94636	20.55	20.55	0	ANNUAL	AREA2	5	
41524.84556	20.71	20.71	0	ANNUAL	AREA2	5	
39407.04928	20.84	20.84	0	ANNUAL	AREA2	5	
37401.31723	20.97	20.97	0	ANNUAL	AREA2	5	
35515.5225	21.07	21.07	0	ANNUAL	AREA2	5	
33718.49348	21.22	21.22	0	ANNUAL	AREA2	5	
32018.25996	21.39	21.39	0	ANNUAL	AREA2	5	
30416.95604	21.56	21.56	0	ANNUAL	AREA2	5	
43237.33093	20.35	20.35	0	ANNUAL	AREA2	5	
41092.22526	20.49	20.49	0	ANNUAL	AREA2	5	
39048.76573	20.63	20.63	0	ANNUAL	AREA2	5	
37106.92372	20.77	20.77	0	ANNUAL	AREA2	5	
35272.07061	20.89	20.89	0	ANNUAL	AREA2	5	
33525.07094	21.04	21.04	0	ANNUAL	AREA2	5	
31864.43873	21.22	21.22	0	ANNUAL	AREA2	5	
30293.93816	21.41	21.41	0	ANNUAL	AREA2	5	
42656.18878	20.18	20.18	0	ANNUAL	AREA2	5	
40614.89527	20.29	20.29	0	ANNUAL	AREA2	5	
38651.37095	20.43	20.43	0	ANNUAL	AREA2	5	
36778.8271	20.57	20.57	0	ANNUAL	AREA2	5	
34997.28213	20.71	20.71	0	ANNUAL	AREA2	5	
33299.24238	20.87	20.87	0	ANNUAL	AREA2	5	
31680.74593	21.06	21.06	0	ANNUAL	AREA2	5	
30146.26451	21.26	21.26	0	ANNUAL	AREA2	5	
42034.93603	20.03	20.03	0	ANNUAL	AREA2	5	
40093.17362	20.12	20.12	0	ANNUAL	AREA2	5	
38217.91215	20.24	20.24	0	ANNUAL	AREA2	5	
36416.11294	20.38	20.38	0	ANNUAL	AREA2	5	
34696.07457	20.52	20.52	0	ANNUAL	AREA2	5	
33045.64263	20.7	20.7	0	ANNUAL	AREA2	5	
31468.26074	20.91	20.91	0	ANNUAL	AREA2	5	
29971.85978	21.12	21.12	0	ANNUAL	AREA2	5	

* AERMOD (1): C:\User:atel\Desktc\Devlin RO AD\Devlin Constru ction HR A\Devlin C 3/5/2020
 * AERMET (14): 18:20:04

* MODELINGONS USED: DFAULT C(ELEV UR BAN
 * PLOT FILE OF AN VALUES AV GED ACRO:5 YEAR S FOR SO URCE GRO UP: ROAD1
 * FOR A TOTAL OF RECEPTORS.

* FORMA T: (3(1X,F1.;3(1X,F8.2) 2X,A6,2X,A 8,2X,I8.8 ,2X,A8)

X	Y	AVERAGE CZELEV	ZHILL	ZFLAG	AVE	GRP	NUM YRS
564981.7	4228939	3.07839	20.55	20.55	0 ANNUAL	ROAD1	5
564988.7	4228939	2.93121	20.71	20.71	0 ANNUAL	ROAD1	5
564995.7	4228939	2.79878	20.84	20.84	0 ANNUAL	ROAD1	5
565002.7	4228939	2.67821	20.97	20.97	0 ANNUAL	ROAD1	5
565009.7	4228939	2.56961	21.07	21.07	0 ANNUAL	ROAD1	5
565016.7	4228939	2.46869	21.22	21.22	0 ANNUAL	ROAD1	5
565023.7	4228939	2.37661	21.39	21.39	0 ANNUAL	ROAD1	5
565030.7	4228939	2.29396	21.56	21.56	0 ANNUAL	ROAD1	5
564981.7	4228946	3.33951	20.35	20.35	0 ANNUAL	ROAD1	5
564988.7	4228946	3.17322	20.49	20.49	0 ANNUAL	ROAD1	5
564995.7	4228946	3.02257	20.63	20.63	0 ANNUAL	ROAD1	5
565002.7	4228946	2.88593	20.77	20.77	0 ANNUAL	ROAD1	5
565009.7	4228946	2.7628	20.89	20.89	0 ANNUAL	ROAD1	5
565016.7	4228946	2.64993	21.04	21.04	0 ANNUAL	ROAD1	5
565023.7	4228946	2.54663	21.22	21.22	0 ANNUAL	ROAD1	5
565030.7	4228946	2.45353	21.41	21.41	0 ANNUAL	ROAD1	5
564981.7	4228953	3.63467	20.18	20.18	0 ANNUAL	ROAD1	5
564988.7	4228953	3.44604	20.29	20.29	0 ANNUAL	ROAD1	5
564995.7	4228953	3.2741	20.43	20.43	0 ANNUAL	ROAD1	5
565002.7	4228953	3.11884	20.57	20.57	0 ANNUAL	ROAD1	5
565009.7	4228953	2.97851	20.71	20.71	0 ANNUAL	ROAD1	5
565016.7	4228953	2.85082	20.87	20.87	0 ANNUAL	ROAD1	5
565023.7	4228953	2.73461	21.06	21.06	0 ANNUAL	ROAD1	5
565030.7	4228953	2.63003	21.26	21.26	0 ANNUAL	ROAD1	5
564981.7	4228960	3.97261	20.03	20.03	0 ANNUAL	ROAD1	5
564988.7	4228960	3.75601	20.12	20.12	0 ANNUAL	ROAD1	5
564995.7	4228960	3.55948	20.24	20.24	0 ANNUAL	ROAD1	5
565002.7	4228960	3.38161	20.38	20.38	0 ANNUAL	ROAD1	5
565009.7	4228960	3.22151	20.52	20.52	0 ANNUAL	ROAD1	5
565016.7	4228960	3.07562	20.7	20.7	0 ANNUAL	ROAD1	5
565023.7	4228960	2.9434	20.91	20.91	0 ANNUAL	ROAD1	5
565030.7	4228960	2.82547	21.12	21.12	0 ANNUAL	ROAD1	5

** CONCUNIT m^3

** DEPUNIT g, 2

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* AERMOD ( 91): C:\Use el\Desktop \Devlin RO AD\Devlin Constru
* AERMET ( 134):
* MODELING IONS USED AULT CONC ELEV UR BAN
* PLOT FILE OF AN LUES AVERA GED ACRO! 5 YEAR S FOR SO
* FOR A TOTAL OI ECEPTORS.
* FORM AT: (3(1X,F(1X,F8.2), 2X,A6,2X,A 8,2X,I8.8 ,2X,A8)
NET ID X Y AV ERAGE CONC ZELEV ZHILL ZFLAG
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X	Y	AV	ERAGE CONC	ZELEV	ZHILL	ZFLAG
564981.7	4228939		2.77999	20.55	20.55	0
564988.7	4228939		2.65093	20.71	20.71	0
564995.7	4228939		2.5344	20.84	20.84	0
565002.7	4228939		2.4278	20.97	20.97	0
565009.7	4228939		2.33123	21.07	21.07	0
565016.7	4228939		2.24086	21.22	21.22	0
565023.7	4228939		2.15779	21.39	21.39	0
565030.7	4228939		2.08235	21.56	21.56	0
564981.7	4228946		3.01036	20.35	20.35	0
564988.7	4228946		2.86461	20.49	20.49	0
564995.7	4228946		2.73198	20.63	20.63	0
565002.7	4228946		2.61102	20.77	20.77	0
565009.7	4228946		2.50138	20.89	20.89	0
565016.7	4228946		2.40029	21.04	21.04	0
565023.7	4228946		2.307	21.22	21.22	0
565030.7	4228946		2.22214	21.41	21.41	0
564981.7	4228953		3.26986	20.18	20.18	0
564988.7	4228953		3.10475	20.29	20.29	0
564995.7	4228953		2.95344	20.43	20.43	0
565002.7	4228953		2.81593	20.57	20.57	0
565009.7	4228953		2.69084	20.71	20.71	0
565016.7	4228953		2.57632	20.87	20.87	0
565023.7	4228953		2.4714	21.06	21.06	0
565030.7	4228953		2.37599	21.26	21.26	0
564981.7	4228960		3.56568	20.03	20.03	0
564988.7	4228960		3.37646	20.12	20.12	0
564995.7	4228960		3.20378	20.24	20.24	0
565002.7	4228960		3.04639	20.38	20.38	0
565009.7	4228960		2.90371	20.52	20.52	0
565016.7	4228960		2.7728	20.7	20.7	0
565023.7	4228960		2.65332	20.91	20.91	0
565030.7	4228960		2.54578	21.12	21.12	0

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** CONCUNIT /m^3
** DEPUNIT g, ^2

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X	Y	AREA 1	AREA 2	ROAD 1	ROAD 2
		AVERAGE CONC	AVERAGE CONC	AVERAGE CONC	AVERAGE CONC
564981.67	4228939.16	59238.63957	43768.94636	3.07839	2.77999
564988.67	4228939.16	55186.22748	41524.84556	2.93121	2.65093
564995.67	4228939.16	51555.09715	39407.04928	2.79878	2.5344
565002.67	4228939.16	48272.78639	37401.31723	2.67821	2.4278
565009.67	4228939.16	45312.58948	35515.5225	2.56961	2.33123
565016.67	4228939.16	42596.54806	33718.49348	2.46869	2.24086
565023.67	4228939.16	40112.45077	32018.25996	2.37661	2.15779
565030.67	4228939.16	37843.13241	30416.95604	2.29396	2.08235
564981.67	4228946.16	59780.87004	43237.33093	3.33951	3.01036
564988.67	4228946.16	55698.02915	41092.22526	3.17322	2.86461
564995.67	4228946.16	52016.92087	39048.76573	3.02257	2.73198
565002.67	4228946.16	48688.37801	37106.92372	2.88593	2.61102
565009.67	4228946.16	45680.55875	35272.07061	2.7628	2.50138
565016.67	4228946.16	42930.59656	33525.07094	2.64993	2.40029
565023.67	4228946.16	40410.84932	31864.43873	2.54663	2.307
565030.67	4228946.16	38105.26397	30293.93816	2.45353	2.22214
564981.67	4228953.16	60247.04528	42656.18878	3.63467	3.26986
564988.67	4228953.16	56153.45122	40614.89527	3.44604	3.10475
564995.67	4228953.16	52438.37962	38651.37095	3.2741	2.95344
565002.67	4228953.16	49076.59103	36778.8271	3.11884	2.81593
565009.67	4228953.16	46026.31697	34997.28213	2.97851	2.69084
565016.67	4228953.16	43241.94242	33299.24238	2.85082	2.57632
565023.67	4228953.16	40690.21503	31680.74593	2.73461	2.4714
565030.67	4228953.16	38355.35097	30146.26451	2.63003	2.37599
564981.67	4228960.16	60647.35469	42034.93603	3.97261	3.56568
564988.67	4228960.16	56547.90307	40093.17362	3.75601	3.37646
564995.67	4228960.16	52821.88856	38217.91215	3.55948	3.20378
565002.67	4228960.16	49434.12815	36416.11294	3.38161	3.04639
565009.67	4228960.16	46357.5552	34696.07457	3.22151	2.90371
565016.67	4228960.16	43537.73045	33045.64263	3.07562	2.7728
565023.67	4228960.16	40953.28686	31468.26074	2.9434	2.65332
565030.67	4228960.16	38592.07554	29971.85978	2.82547	2.54578

Updated for 5363.0001 Devlin Road C&D

PARCEL 1A
Construction Annual DPM Emissions (PM2.5 Exhaust)

Annual Average Onsite DPM Rate (grams/m2/sec): 3.55E-07
 Annual Average Offsite DPM Emission Rate - Road Segment 1 (grams/sec): 4.41E-06
 Annual Average Offsite DPM Emission Rate - Road Segment 2 (grams/sec): 4.88E-06

X	Y	Onsite PROJECT SITE			Offsite-Road Segment 1	Offsite-Road Segment 2	Offsite-Road Segment 1	Offsite-Road Segment 2	Total DPM (ug/m3)
		Unit Emissions VALUES AVERAGED AVERAGE CONC	Unit Emissions VALUES AVERAGED AVERAGE CONC	Unit Emissions VALUES AVERAGED AVERAGE CONC	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	
564981.67	4228939.16	59238.63957	3.07839	2.77999	2.10E-02	1.36E-05	1.36E-05	2.1052E-02	
564988.67	4228939.16	55186.22748	2.93121	2.65093	1.96E-02	1.29E-05	1.29E-05	1.9612E-02	
564995.67	4228939.16	51555.09715	2.79878	2.5344	1.83E-02	1.23E-05	1.24E-05	1.8322E-02	
565002.67	4228939.16	48272.78839	2.67821	2.4278	1.71E-02	1.18E-05	1.18E-05	1.7156E-02	
565009.67	4228939.16	45312.58948	2.56961	2.33123	1.61E-02	1.13E-05	1.14E-05	1.6105E-02	
565016.67	4228939.16	42596.54806	2.46869	2.24086	1.51E-02	1.09E-05	1.09E-05	1.5140E-02	
565023.67	4228939.16	40112.45077	2.37661	2.15779	1.42E-02	1.05E-05	1.05E-05	1.4258E-02	
565030.67	4228939.16	37843.13241	2.29396	2.08235	1.34E-02	1.01E-05	1.02E-05	1.3451E-02	
564981.67	4228946.16	59780.87004	3.33951	3.01036	2.12E-02	1.47E-05	1.47E-05	2.1247E-02	
564988.67	4228946.16	55698.02915	3.17322	2.86461	1.98E-02	1.40E-05	1.40E-05	1.9796E-02	
564995.67	4228946.16	52016.92087	3.02257	2.73198	1.85E-02	1.33E-05	1.33E-05	1.8488E-02	
565002.67	4228946.16	48688.37801	2.88593	2.61102	1.73E-02	1.27E-05	1.27E-05	1.7306E-02	
565009.67	4228946.16	45680.55875	2.7628	2.50138	1.62E-02	1.22E-05	1.22E-05	1.6237E-02	
565016.67	4228946.16	42930.59656	2.64993	2.40029	1.52E-02	1.17E-05	1.17E-05	1.5260E-02	
565023.67	4228946.16	40410.84932	2.54663	2.307	1.43E-02	1.12E-05	1.13E-05	1.4365E-02	
565030.67	4228946.16	38105.26397	2.45353	2.22214	1.35E-02	1.08E-05	1.08E-05	1.3546E-02	
564981.67	4228953.16	60247.04528	3.63467	3.26986	2.14E-02	1.60E-05	1.60E-05	2.1415E-02	
564988.67	4228953.16	56153.45122	3.44604	3.10475	1.99E-02	1.52E-05	1.52E-05	1.9906E-02	
564995.67	4228953.16	52438.37962	3.2741	2.95344	1.86E-02	1.44E-05	1.44E-05	1.8640E-02	
565002.67	4228953.16	49076.59103	3.11884	2.81593	1.74E-02	1.37E-05	1.37E-05	1.7446E-02	
565009.67	4228953.16	46026.31697	2.97851	2.69084	1.63E-02	1.31E-05	1.31E-05	1.6362E-02	
565016.67	4228953.16	43211.94242	2.85082	2.57632	1.53E-02	1.26E-05	1.26E-05	1.5372E-02	
565023.67	4228953.16	40690.21503	2.73461	2.4714	1.44E-02	1.21E-05	1.21E-05	1.4466E-02	
565030.67	4228953.16	38355.35097	2.63003	2.37599	1.36E-02	1.16E-05	1.16E-05	1.3636E-02	
564981.67	4228960.16	60647.35469	3.97261	3.56568	2.15E-02	1.75E-05	1.74E-05	2.1560E-02	
564988.67	4228960.16	56547.90307	3.76601	3.37646	2.01E-02	1.66E-05	1.65E-05	2.0103E-02	
564995.67	4228960.16	52821.88856	3.55948	3.20378	1.87E-02	1.57E-05	1.56E-05	1.8779E-02	
565002.67	4228960.16	49434.12815	3.38161	3.04639	1.75E-02	1.49E-05	1.49E-05	1.7575E-02	
565009.67	4228960.16	46357.5552	3.22151	2.90371	1.65E-02	1.42E-05	1.42E-05	1.6481E-02	
565016.67	4228960.16	43537.73045	3.07562	2.7728	1.55E-02	1.36E-05	1.35E-05	1.5479E-02	
565023.67	4228960.16	40953.28686	2.9434	2.65332	1.45E-02	1.30E-05	1.30E-05	1.4561E-02	
565030.67	4228960.16	38592.07554	2.82547	2.54578	1.37E-02	1.25E-05	1.24E-05	1.3722E-02	

Updated for 5363.0001 Devlin Road C&D

PARCEL 1B
Construction Annual DPM Emissions (PM2.5 Exhaust)

Annual Average Onsite DPM Rate (grams/m2/sec): 4.95E-07
 Annual Average Offsite DPM Emission Rate - Road Segment 1 (grams/sec): 1.36E-07
 Annual Average Offsite DPM Emission Rate - Road Segment 2 (grams/sec): 4.88E-06

X	Y	Onsite PROJECT SITE			Offsite-Road Segment 1	Offsite-Road Segment 2	Offsite-Road Segment 1	Offsite-Road Segment 2	Total DPM (ug/m3)
		Unit Emissions VALUES AVERAGED AVERAGE CONC	Unit Emissions VALUES AVERAGED AVERAGE CONC	Unit Emissions VALUES AVERAGED AVERAGE CONC	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Actual Emissions (ug/m3)	
564981.67	4228939.16	43768.94636	3.07839	2.77999	2.16E-02	4.19E-07	1.36E-05	2.1658E-02	
564988.67	4228939.16	41524.84556	2.93121	2.65093	2.05E-02	3.99E-07	1.29E-05	2.0547E-02	
564995.67	4228939.16	39407.04928	2.79878	2.5344	1.95E-02	3.81E-07	1.24E-05	1.9500E-02	
565002.67	4228939.16	37401.31723	2.67821	2.4278	1.85E-02	3.65E-07	1.18E-05	1.8507E-02	
565009.67	4228939.16	35515.5225	2.56961	2.33123	1.76E-02	3.50E-07	1.14E-05	1.7574E-02	
565016.67	4228939.16	33718.49348	2.46869	2.24086	1.67E-02	3.36E-07	1.09E-05	1.6685E-02	
565023.67	4228939.16	32018.25996	2.37661	2.15779	1.58E-02	3.24E-07	1.05E-05	1.5844E-02	
565030.67	4228939.16	30416.95604	2.29396	2.08235	1.50E-02	3.13E-07	1.02E-05	1.5052E-02	
564981.67	4228946.16	43237.33093	3.33951	3.01036	2.14E-02	4.55E-07	1.47E-05	2.1396E-02	
564988.67	4228946.16	41092.22526	3.17322	2.86461	2.03E-02	4.32E-07	1.40E-05	2.0335E-02	
564995.67	4228946.16	39048.76573	3.02257	2.73198	1.93E-02	4.12E-07	1.33E-05	1.9323E-02	
565002.67	4228946.16	37106.92372	2.88593	2.61102	1.83E-02	3.93E-07	1.27E-05	1.8363E-02	
565009.67	4228946.16	35272.07061	2.7628	2.50138	1.74E-02	3.76E-07	1.22E-05	1.7455E-02	
565016.67	4228946.16	33525.07094	2.64993	2.40029	1.66E-02	3.61E-07	1.17E-05	1.6590E-02	
565023.67	4228946.16	31864.43873	2.54663	2.307	1.58E-02	3.47E-07	1.13E-05	1.5769E-02	
565030.67	4228946.16	30293.93816	2.45353	2.22214	1.50E-02	3.34E-07	1.08E-05	1.4992E-02	
564981.67	4228953.16	42656.18878	3.63467	3.26986	2.11E-02	4.95E-07	1.60E-05	2.1110E-02	
564988.67	4228953.16	40614.89527	3.44604	3.10475	2.01E-02	4.69E-07	1.52E-05	2.0100E-02	
564995.67	4228953.16	38651.37095	3.2741	2.95344	1.91E-02	4.46E-07	1.44E-05	1.9128E-02	
565002.67	4228953.16	36778.8271	3.11884	2.81593	1.82E-02	4.25E-07	1.37E-05	1.8201E-02	
565009.67	4228953.16	34997.28213	2.97851	2.69084	1.73E-02	4.06E-07	1.31E-05	1.7320E-02	
565016.67	4228953.16	33299.24238	2.85082	2.57632	1.65E-02	3.88E-07	1.26E-05	1.6479E-02	
565023.67	4228953.16	31680.74593	2.73461	2.4714	1.57E-02	3.73E-07	1.21E-05	1.5679E-02	
565030.67	4228953.16	30146.26451	2.63003	2.37599	1.49E-02	3.58E-07	1.16E-05	1.4919E-02	
564981.67	4228960.16	42034.93603	3.97261	3.56568	2.08E-02	5.41E-07	1.74E-05	2.0804E-02	
564988.67	4228960.16	40093.17362	3.76001	3.37646	1.98E-02	5.12E-07	1.65E-05	1.9843E-02	
564995.67	4228960.16	38217.91215	3.55948	3.20378	1.89E-02	4.85E-07	1.56E-05	1.8915E-02	
565002.67	4228960.16	36416.11294	3.38161	3.04639	1.80E-02	4.61E-07	1.49E-05	1.8023E-02	
565009.67	4228960.16	34696.07457	3.22151	2.90371	1.72E-02	4.39E-07	1.42E-05	1.7172E-02	
565016.67	4228960.16	33045.64263	3.07562	2.7728	1.63E-02	4.19E-07	1.35E-05	1.6355E-02	
565023.67	4228960.16	31468.26074	2.9434	2.65332	1.56E-02	4.01E-07	1.30E-05	1.5574E-02	
565030.67	4228960.16	29971.85978	2.82547	2.54578	1.48E-02	3.85E-07	1.24E-05	1.4834E-02	

Updated for 5363.0001 Devlin Road C&D

PARCEL 1A
Construction Annual Total PM2.5 Emissions (PM2.5 Total)

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/Sec): 4.54E-07
 Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 1 (grams/sec): 5.87E-05
 Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 2 (grams/sec): 6.50E-05

X	Y	Onsite PROJECT SITE Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 1 Unit Emissions VALUES AVERAGED AVERAGE CONC	Offsite-Road Segment 2 Unit Emissions VALUES AVERAGED AVERAGE CONC	Onsite PROJECT SITE Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 1 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Offsite-Road Segment 2 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Total EPM (ug/m3)
564981.67	4228939.16	59238.63957	3.07839	2.77999	2.69E-02	1.81E-04	1.81E-04	2.767E-02
564988.67	4228939.16	55186.22748	2.93121	2.65093	2.51E-02	1.72E-04	1.72E-04	2.5409E-02
564995.67	4228939.16	51555.09715	2.79878	2.5344	2.34E-02	1.64E-04	1.65E-04	2.3745E-02
565002.67	4228939.16	48272.78639	2.67821	2.4278	2.19E-02	1.57E-04	1.58E-04	2.2240E-02
565009.67	4228939.16	45312.58948	2.56961	2.33123	2.06E-02	1.51E-04	1.52E-04	2.0883E-02
565016.67	4228939.16	42596.54806	2.46869	2.24086	1.93E-02	1.45E-04	1.46E-04	1.937E-02
565023.67	4228939.16	40112.45077	2.37661	2.15779	1.82E-02	1.40E-04	1.40E-04	1.8498E-02
565030.67	4228939.16	37843.13241	2.29396	2.08235	1.72E-02	1.35E-04	1.35E-04	1.7458E-02
564981.67	4228946.16	59780.87004	3.33951	3.01036	2.72E-02	1.96E-04	1.96E-04	2.7543E-02
564988.67	4228946.16	55698.02915	3.17322	2.86461	2.53E-02	1.86E-04	1.86E-04	2.5670E-02
564995.67	4228946.16	52016.92087	3.02257	2.73198	2.36E-02	1.77E-04	1.78E-04	2.3980E-02
565002.67	4228946.16	48688.37801	2.88593	2.61102	2.21E-02	1.69E-04	1.70E-04	2.2433E-02
565009.67	4228946.16	45680.55875	2.7628	2.50138	2.07E-02	1.62E-04	1.63E-04	2.1072E-02
565016.67	4228946.16	42930.59656	2.64993	2.40029	1.95E-02	1.56E-04	1.56E-04	1.9910E-02
565023.67	4228946.16	40410.84932	2.54663	2.307	1.84E-02	1.50E-04	1.50E-04	1.8653E-02
565030.67	4228946.16	38105.26397	2.45353	2.22214	1.73E-02	1.44E-04	1.44E-04	1.7595E-02
564981.67	4228953.16	60247.04528	3.63467	3.26986	2.74E-02	2.13E-04	2.13E-04	2.7789E-02
564988.67	4228953.16	56153.45122	3.44604	3.10475	2.55E-02	2.02E-04	2.02E-04	2.5588E-02
564995.67	4228953.16	52438.37962	3.2741	2.95344	2.38E-02	1.92E-04	1.92E-04	2.4201E-02
565002.67	4228953.16	49076.59103	3.11884	2.81593	2.23E-02	1.83E-04	1.83E-04	2.2656E-02
565009.67	4228953.16	46026.31697	2.97851	2.69084	2.09E-02	1.75E-04	1.75E-04	2.1254E-02
565016.67	4228953.16	43241.94242	2.85082	2.57632	1.96E-02	1.67E-04	1.67E-04	1.9975E-02
565023.67	4228953.16	40690.21503	2.73461	2.4714	1.85E-02	1.61E-04	1.61E-04	1.8802E-02
565030.67	4228953.16	38355.35097	2.63003	2.37599	1.74E-02	1.54E-04	1.54E-04	1.7729E-02
564981.67	4228960.16	60647.35469	3.97261	3.56568	2.75E-02	2.33E-04	2.32E-04	2.8010E-02
564988.67	4228960.16	56547.90307	3.75001	3.37646	2.57E-02	2.21E-04	2.20E-04	2.6123E-02
564995.67	4228960.16	53821.88856	3.55948	3.20378	2.40E-02	2.09E-04	2.08E-04	2.4408E-02
565002.67	4228960.16	49434.12815	3.38161	3.04639	2.25E-02	1.99E-04	1.98E-04	2.2849E-02
565009.67	4228960.16	46357.5552	3.22151	2.90371	2.11E-02	1.89E-04	1.89E-04	2.1433E-02
565016.67	4228960.16	43537.73045	3.07562	2.7728	1.98E-02	1.81E-04	1.80E-04	2.0135E-02
565023.67	4228960.16	40953.28686	2.9434	2.65332	1.86E-02	1.73E-04	1.72E-04	1.8946E-02
565030.67	4228960.16	38592.07554	2.82547	2.54578	1.75E-02	1.66E-04	1.66E-04	1.7859E-02

Updated for 5363.0001 Devlin Road C&D

Parcel 1B

Construction Annual Total PM2.5 Emissions (PM2.5 Total)

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/Sec):	2.00E-06
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 1 (grams/Sec):	6.95E-06
Annual Average Offsite Total PM2.5 Emission Rate - Road Segment 2 (grams/Sec):	7.69E-06

X	Y	Onsite PROJECT SITE			Offsite-Road Segment 1	Offsite-Road Segment 2	Onsite PROJECT SITE			Offsite-Road Segment 1	Offsite-Road Segment 2	Total DPM (ug/m3)
		Unit Emissions VALUES AVERAGED	AVERAGE CONC	Unit Emissions VALUES AVERAGED	AVERAGE CONC	Unit Emissions VALUES AVERAGED	AVERAGE CONC	Annual PM2.5 Total w/Actual Emissions	(ug/m3)	Annual PM2.5 Total w/Actual Emissions	(ug/m3)	
564981.67	4228939.16	43768.94636	3.07839	2.77999		8.77E-02	2.14E-05	2.14E-05		2.14E-05	8.7345E-02	
564988.67	4228939.16	41524.84556	2.93121	2.65093		8.32E-02	2.04E-05	2.04E-05		2.04E-05	8.3246E-02	
564995.67	4228939.16	39407.04928	2.79878	2.5344		7.90E-02	1.94E-05	1.94E-05		1.94E-05	7.9001E-02	
565002.67	4228939.16	37401.31723	2.67821	2.4278		7.49E-02	1.86E-05	1.87E-05		1.87E-05	7.4900E-02	
565009.67	4228939.16	35515.3225	2.56961	2.33123		7.12E-02	1.79E-05	1.79E-05		1.79E-05	7.1200E-02	
565016.67	4228939.16	33718.49348	2.46869	2.24086		6.76E-02	1.72E-05	1.72E-05		1.72E-05	6.7598E-02	
565023.67	4228939.16	32018.25996	2.37661	2.15779		6.42E-02	1.65E-05	1.66E-05		1.66E-05	6.4190E-02	
565030.67	4228939.16	30416.95604	2.29396	2.08235		6.09E-02	1.59E-05	1.60E-05		1.60E-05	6.0980E-02	
564981.67	4228946.16	43237.33093	3.33951	3.01036		8.66E-02	2.32E-05	2.32E-05		2.32E-05	8.6683E-02	
564988.67	4228946.16	41092.22526	3.17322	2.86461		8.23E-02	2.20E-05	2.20E-05		2.20E-05	8.2383E-02	
564995.67	4228946.16	39048.76573	3.02257	2.73198		7.82E-02	2.10E-05	2.10E-05		2.10E-05	7.8286E-02	
565002.67	4228946.16	37106.92372	2.88593	2.61102		7.44E-02	2.01E-05	2.01E-05		2.01E-05	7.4393E-02	
565009.67	4228946.16	35272.07061	2.7628	2.50138		7.07E-02	1.92E-05	1.92E-05		1.92E-05	7.0715E-02	
565016.67	4228946.16	33525.07094	2.64993	2.40029		6.72E-02	1.84E-05	1.85E-05		1.85E-05	6.7213E-02	
565023.67	4228946.16	31864.43873	2.54663	2.307		6.38E-02	1.77E-05	1.77E-05		1.77E-05	6.3884E-02	
565030.67	4228946.16	30293.93816	2.45353	2.22214		6.07E-02	1.70E-05	1.71E-05		1.71E-05	6.0736E-02	
564981.67	4228953.16	42656.18878	3.63467	3.26986		8.55E-02	2.53E-05	2.52E-05		2.52E-05	8.5523E-02	
564988.67	4228953.16	40614.89527	3.44504	3.10475		8.14E-02	2.39E-05	2.39E-05		2.39E-05	8.1430E-02	
564995.67	4228953.16	38651.37095	3.2741	2.95344		7.74E-02	2.27E-05	2.27E-05		2.27E-05	7.7493E-02	
565002.67	4228953.16	36778.8271	3.11884	2.81593		7.37E-02	2.17E-05	2.17E-05		2.17E-05	7.3795E-02	
565009.67	4228953.16	34997.28213	2.97851	2.69084		7.01E-02	2.07E-05	2.07E-05		2.07E-05	7.0167E-02	
565016.67	4228953.16	33299.24238	2.85082	2.57632		6.67E-02	1.98E-05	1.98E-05		1.98E-05	6.6763E-02	
565023.67	4228953.16	31680.74593	2.73461	2.4714		6.35E-02	1.90E-05	1.90E-05		1.90E-05	6.3519E-02	
565030.67	4228953.16	30146.26451	2.63003	2.37599		6.04E-02	1.83E-05	1.83E-05		1.83E-05	6.0442E-02	
564981.67	4228960.16	42034.93603	3.97261	3.56568		8.42E-02	2.76E-05	2.74E-05		2.74E-05	8.4283E-02	
564988.67	4228960.16	40093.17362	3.75001	3.37646		8.03E-02	2.61E-05	2.60E-05		2.60E-05	8.0389E-02	
564995.67	4228960.16	38217.91215	3.55948	3.20378		7.66E-02	2.47E-05	2.46E-05		2.46E-05	7.6639E-02	
565002.67	4228960.16	36416.11294	3.38161	3.04639		7.30E-02	2.35E-05	2.34E-05		2.34E-05	7.3016E-02	
565009.67	4228960.16	34696.07457	3.22151	2.90371		6.95E-02	2.24E-05	2.23E-05		2.23E-05	6.9567E-02	
565016.67	4228960.16	33045.64263	3.07562	2.7728		6.62E-02	2.14E-05	2.13E-05		2.13E-05	6.6258E-02	
565023.67	4228960.16	31466.26074	2.9434	2.65332		6.31E-02	2.05E-05	2.04E-05		2.04E-05	6.3096E-02	
565030.67	4228960.16	29971.85978	2.82547	2.54578		6.01E-02	1.96E-05	1.96E-05		1.96E-05	6.0096E-02	

OEHHA Cancer/BAAQMD Risk Methodology

$$\text{Cancer Risk} = \text{DPM} \times \text{CPF} \times \text{ASF} \times \text{DBR} \times \text{ED} \times \text{EF} \times \text{TAH} \times \text{AF} / \text{AT}$$

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 30 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model ($\mu\text{g}/\text{m}^3$)

CPF = cancer potency factor for DPM ($\text{mg}\cdot\text{kg}^{-1}\cdot\text{day}^{-1}$)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual ($\text{liters}/\text{kg}\cdot\text{day}$)

ED = exposure duration (years)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

AF = adjustment factor for workers and students (unitless)

Cancer Risk Equation Values as recommended by the California Office of Environmental Health Hazards Assessment

Updated for 5363.0001 Devlin Road C&D

All Construction Sources – Parcel 1A and 1B

Construction Annual DPM Emissions (PM2.5 Exhaust)

		DPM Concentrations		
		Maximum DPM (ug/m3)	MIR X	UTM Y
		0.042709733	564981.67	4228939.16
		Total Construction		
X	Y	Parcel 1A	Parcel 1B	Construction
564981.67	4228939.16	0.021051944	0.021657789	0.042709733
564988.67	4228939.16	0.019612395	0.020547429	0.040159823
564995.67	4228939.16	0.018322492	0.019499589	0.037822081
565002.67	4228939.16	0.017156492	0.018507215	0.035663707
565009.67	4228939.16	0.016104918	0.017574201	0.033679119
565016.67	4228939.16	0.015140062	0.016685113	0.031825175
565023.67	4228939.16	0.014257602	0.015843927	0.030101529
565030.67	4228939.16	0.01345145	0.015051701	0.028503151
564981.67	4228946.16	0.021246666	0.021396065	0.042642731
564988.67	4228946.16	0.019796152	0.020334573	0.040130725
564995.67	4228946.16	0.018488352	0.019323412	0.037811764
565002.67	4228946.16	0.017305803	0.01836256	0.035668362
565009.67	4228946.16	0.016237198	0.01745467	0.033691869
565016.67	4228946.16	0.015260199	0.016590268	0.031850467
565023.67	4228946.16	0.014364987	0.015768614	0.030133601
565030.67	4228946.16	0.013545871	0.014991572	0.028537443
564981.67	4228953.16	0.021414688	0.021109996	0.042524684
564988.67	4228953.16	0.019960164	0.020099742	0.040059906
564995.67	4228953.16	0.018640125	0.019128015	0.03776814
565002.67	4228953.16	0.017445613	0.018201347	0.03564696
565009.67	4228953.16	0.01636179	0.017319741	0.033681531
565016.67	4228953.16	0.015372446	0.016479482	0.031851928
565023.67	4228953.16	0.01446577	0.015678605	0.030144375
565030.67	4228953.16	0.01363616	0.014919322	0.028555482
564981.67	4228960.16	0.021559698	0.020804276	0.042363974
564988.67	4228960.16	0.020102854	0.019843119	0.039945973
564995.67	4228960.16	0.018778719	0.01891493	0.037693648
565002.67	4228960.16	0.017574792	0.018023145	0.035597938
565009.67	4228960.16	0.016481462	0.017171866	0.033653228
565016.67	4228960.16	0.015479376	0.016355066	0.031834442
565023.67	4228960.16	0.014560947	0.015574448	0.030135394
565030.67	4228960.16	0.013721868	0.014833934	0.028555802

Construction Annual Total PM2.5 Emissions (PM2.5 Total)

		PM2.5 Total Concentrations		
		Maximum PM2.5 Total (ug/m3)	MIR X	UTM Y
		0.115011798	564981.67	4228939.16
		Total Construction		
Parcel 1A	Parcel 1B	Construction		
0.027266723	0.087745075	0.115011798		
0.02540915	0.083246428	0.108655579		
0.023744598	0.079001064	0.102745662		
0.022239815	0.074980408	0.097720224		
0.020882687	0.071200238	0.092082925		
0.019637304	0.067598033	0.087235337		
0.01849826	0.064189901	0.08268816		
0.017457814	0.060980123	0.078437938		
0.027543305	0.086683433	0.114226738		
0.025669705	0.080382888	0.108052592		
0.023980336	0.078286226	0.102266562		
0.022452679	0.074393368	0.096846047		
0.021072218	0.070715071	0.091787289		
0.01981003	0.067212947	0.087022977		
0.018653471	0.06399801	0.082537481		
0.017595328	0.06073581	0.078331137		
0.027789236	0.08523013	0.113312249		
0.025908182	0.081430177	0.107338359		
0.024200923	0.077493395	0.101694318		
0.022655997	0.073739137	0.096395133		
0.021254239	0.070167417	0.091421657		
0.019974678	0.066763192	0.08673787		
0.01880208	0.063518505	0.082320585		
0.017729279	0.060442317	0.078171597		
0.028010125	0.048282797	0.112292922		
0.026123201	0.080389018	0.106512219		
0.024408139	0.076628757	0.101036896		
0.022848796	0.073015944	0.095864741		
0.02143279	0.069567197	0.090999987		
0.020134994	0.066258113	0.086593107		
0.01894565	0.063095586	0.082041236		
0.01785931	0.060095517	0.077954827		

Cancer Risk Calculations Using OEHHA/BAAQMD Cancer Risk Assumptions
 Updated for 5363.0001 Devlin Road C&D
 Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant
 UTM: 564981.67 4228939.16

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency: 350 days/year
 Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Age	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
	Concentration (ug/m3)	Age Sensitivity Factor				
3rd Trimester	0.042709733	10	361	0.85	0.25	0.5
0-1	0.042709733	10	1090	0.85	0.99	5.9
1-<2	0.042709733	10	1090	0.85	0.00	0.0
Total						6.42

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
 UTM: 564981.67 4228939.16

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency: 350 days/year
 Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹	Notes
	Concentration (ug/m3)	Age Sensitivity Factor					
1	0.042709733	3	572	0.72	1.00	0.8	No schools in close vicinity
2	0.042709733	3	572	0.72	0.24	0.2	
3	0.042709733	3	572	0.72	0.00	0.0	
Total						0.99	

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult
 UTM: 564981.67 4228939.16

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
 Exposure Frequency: 350 days/year
 Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
	Concentration (ug/m3)	Age Sensitivity Factor				
1	0.042709733	1	261	0.73	1.00	0.1
2	0.042709733	1	261	0.73	0.24	0.0
3	0.042709733	1	261	0.73	0.00	0.0
Total						0.15

Updated for 5363.0001 Devlin Road C&D

UTM: 564981.67 4228939.16

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Unmitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL		Average DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
X (m)	Y (m)			
564981.67	4228939.16	0.0427	0.0427	0.00854

Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Average PM2.5 Total (ug/m3)	Max PM2.5 (ug/m3)
564981.67	4228939.16	0.1150	0.1150

A.3 - Additional Air Quality and Greenhouse Gas Supporting Information

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PROJECT NAME: Devlin Road C&D Facility

PG&E Electricity Emissions Factors

Year	lbs CO ₂ e/MWh
2008 CalEEMod Default	641.00
Latest Calculated(2017)	391.60
2020-2029	390.65
2030	233.79

2017 Electricity Emissions Factor

Emissions Factors	t/kWh	Share of Portfolio	t/kWh	t/MWh	lbs/MWh
RPS sources	-	33%	-	-	-
Natural Gas	0.000459	20%	0.00009170	-	-
Nuclear	0.000002	27%	0.00000043	-	-
Coal	0.001037	0%	-	-	-
Unspecified Sources	0.000427	20%	0.00008550	-	-
Total	-	100%	0.00017763	0.18	391.60

Power Content Label

PG&E 2017	%	Source
RPS sources	33%	California Energy Commission (CEC). 2018. Pacific Gas and Electric Company Power Content Label 2008. July. Website: https://ww2.energy.ca.gov/pcl/labels/2017_labels/PG_and_E_2017_PCL.pdf . Accessed January 15, 2020.
Natural Gas	20%	
Nuclear	27%	
Coal	0%	
Unspecified Sources	20%	
Total	100%	

Natural Gas Facility Emissions Factor Calculation

Natural Gas Emissions Factor

	CO ₂	CH ₄	N ₂ O	CO ₂ e	Source
kg per mmBtu	53.06	-	-	-	Environmental Protection Agency (EPA). 2018. Emission Factors for Greenhouse Gas Inventories. March 9. Website: https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf . Accessed January 15, 2020.
g per mmBtu	53,060	1.00	0.10	-	
t per mmBtu	0.05	0.00	0.00	-	Calculated
t CO ₂ e per mmBtu	0.05	0.00	0.00	0.05	Calculated
t CO ₂ e per GJ	-	-	-	0.06	Calculated

Heat Rates

Value	Units	Source	Notes
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		California Energy Commission (CEC). 2017. <i>Thermal Efficiency of Natural Gas-Fired Generation in California: 2016 Update</i> . February. Website: http://www.energy.ca.gov/2017publications/CEC-200-2017-003/CEC-200-2017-003.pdf . Accessed January 15, 2020.	Table 1, State Average w/o Cogeneration (per last paragraph on pg 4)
7,755	btu/kWh		
0.00818196	GJ/kWh	Converted in Google: GJ per btu	

Natural Gas Facility Emissions Factor

Natural gas emissions factor	0.06	t CO ₂ e per GJ
Natural gas facility heat rate	0.00818196	GJ/kWh
Natural Gas Facility Emissions Factor	0.000458507	t CO ₂ e per kWh

Nuclear Emissions Factor

Nuclear GHG Emissions	0.40	gCO ₂ e/MJ	California Air Resource Board. 2009. <i>Detailed California-Modified GREET Pathway for California Average and Marginal Electricity</i> . February 27. Website: https://www.arb.ca.gov/fuels/lcfs/022709lcfs_elec.pdf . Accessed January 15, 2020.
Nuclear Emissions Factor	0.00000159	t/kWh	

Unspecified Electricity Source Emissions Factor Calculation

ARB California GHG Inventory Electricity Emissions Factors

	2014	CO ₂	CH ₄	N ₂ O	CO ₂ e	Units	Source
Pacific Northwest (PNW)		427	0.008117	0.00094388	427.4774	g/kWh	California Air Resource Board. 2016. <i>Annex 1B. Electricity Production - Imports (IPCC 1A1a) to the Technical Support Document for California's 2000-2014 Greenhouse Gas Emission Inventory</i> . March 30. Website: https://www.arb.ca.gov/cc/inventory/doc/methods_00-14/annex_1b_electricity_production_imports.pdf . Accessed January 15, 2020.
Pacific Southwest (PSW)		427	0.008117	0.00094388	427.4774	g/kWh	
PNW and PSW		-	-	-	0.000427	t/kWh	

Other/Unspecified Emissions Factor

Unspecified Electricity Emissions Factor	0.000427	t CO ₂ e per kWh
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Coal Electricity Source Emissions Factor Calculation

ARB California GHG Inventory Electricity Emissions Factors

	2007	CO ₂	CH ₄	N ₂ O	CO ₂ e	Units	Source
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Coal Electricity Source Emissions Factor Calculation	1033	0.011	0.0153	1037.363	g/kWh	California Air Resource Board. 2016. Annex 1B. Electricity Production - Imports (IPCC 1A1a) to the Technical Support Document for California's 2000-2014 Greenhouse Gas Emission Inventory. March 30. Website: https://www.arb.ca.gov/cc/inventory/doc/methods_00-14/annex_1b_electricity_production_imports.pdf . Accessed January 15, 2020.
Total	-	-	-	0.001037	t/kWh	-

Coal Emissions Factor

Unspecified Electricity Emissions Factor	0.001037 t CO ₂ e per kWh
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2020-2029 and 2030 Electricity Emissions Factors

Non-RPS Energy	Year	PG&E RPS Position	Notes	Source
89.0%	2008	11.0%		California Energy Commission (CEC). 2018. Power Content Label 2008 PG&E Power Mix. Website: https://ww2.energy.ca.gov/pcl/labels/2008_labels/PG%20and%20E%20pcl%202008.pdf . Accessed
67.0%	2020-2029	33.0%		
40.0%	2030	60.0%		

Estimated Power Content Label Sources

PG&E	2017	Share of Non-RPS in 2017	2020-2029	Share of Non-RPS in 2020-2029	2030
RPS	33.0%	-	33.0%	-	60.0%
Natural Gas	20.0%	22%	20.0%	29.9%	11.9%
Nuclear	27.0%	30%	27.0%	40.3%	16.1%
Coal	0.0%	0%	0.0%	0.0%	0.0%
Unspecified Sources	20.0%	22%	20.0%	29.9%	11.9%
Total	100%	75%	100%	100.0%	100%

2020-2029

Emissions Factors	t/kWh	Share of Portfolio	t/kWh	t/MWh	lbs/MWh
RPS	-	33.0%	-		
Natural Gas	0.000459	20.0%	0.000092		
Nuclear	0.000002	27.0%			
Coal	0.001037	0.0%	-		
Unspecified	0.000427	20.0%	0.000085		
Total	-	100.0%	0.000177	0.18	390.65

2030

Emissions Factors	t/kWh	Share of Portfolio	t/kWh	t/MWh	lbs/MWh
RPS	-	60.0%	-		
Natural Gas	0.000459	11.9%	0.000055		

Nuclear	0.000002	16.1%	0.000000		
Coal	0.001037	0.0%	-		
Unspecified	0.000427	11.9%	0.000051		
Total	-	100.0%	0.000106	0.11	233.79

CONVERSION FACTORS

Conversions

GJ	mmBtu
1	0.947817
g	kg
1	1,000
g	t
1	0.000001
lb	t
2,204.62	1
kW	MW
1	0.001

GWP Factors

CO ₂	1
CH ₄	28
N ₂ O	265

ABBREVIATIONS

Estimation of Demolition Debris

Buildings

Debris Generation for Buildings (cy)

Approximate Size	Area (sq ft)	~H (ft)	Stories	Cubic Feet	/27	*0.33	Cubic Yards
Existing building	0	0	2	0	0	0	0
Total Building	-						0 cy

Removal of Hardscape

Approximate Size	2,222	sq-feet
Thickness	4	inches
Volume	741	cu-ft
Volume	27	cy

Conversion Weight of Impervious: 2,700 lbs/cy

Weight of Impervious: 37.033333 tons of debris

Conversion of Tons of Debris to Cubic Yards

Conversion Factor	1 cy = 0.5 tons
Impervious	74.06666667 cy

Total

Removal of surfaces	74	cy
Total Building	0	cy
Total	74	cy

Removal of surfaces 37 tons of debris

Total Building
Total

0 tons of debris
37 tons of debris

Notes: cy = cubic yards; ft= feet; ~ = approximate; lbs = pounds; sq-feet = square feet; cu-ft = cubic feet

Sources of factors:

Federal Emergency Management Agency (FEMA). 2010. Debris Estimating Field Guide. September. Website: https://www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf. Accessed February 2019.

DownEaster. 2015. Material Weight – Pounds per Cubic Yard. June 9. Website: https://downeastermfg.com/wp-content/uploads/2015/.../Cubic_Yardage_Chart-D.pdf. Accessed February 2019.

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A.4 - Energy Supporting Information

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Devlin Road Construction & Demolition Debris Facility Project Energy Use Summary

Summary of Energy Use During Construction	(Annually)
Construction off-site vehicle fuel	19,200 gallons (gasoline, diesel)
Construction on-site equipment fuel	82,572 gallons (diesel)
Construction office electricity	16,038 kilowatt hours
Summary of Energy Use During Operations	1,081,150 (Annually)
Operation electricity	1,081,150 kilowatt hours

Construction Vehicle Fuel Calculations for Parcel 1A

California Air Resource Board (ARB). 2020. EMFAC2014 Web Database. Website: <https://www.arb.ca.gov/emfac/2014/>. Accessed March 9, 2020.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Napa

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Given Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Calculations	
									FE (mi/gallon)	VMT*FE
Napa	2021	LDA	Aggregated	Aggregated	GAS	43624.49526	1763696.71	57.05078595	30.9145	54523807.73
Napa	2021	LDA	Aggregated	Aggregated	DSL	535.7381891	21528.23555	0.555620864	38.74627	834138.8085
Napa	2021	LDT1	Aggregated	Aggregated	GAS	3422.782392	120036.4188	4.697904967	25.55105	3067056.901
Napa	2021	LDT1	Aggregated	Aggregated	DSL	3.836653719	89.69880464	0.003052183	29.38841	2636.10515
Napa	2021	LDT2	Aggregated	Aggregated	GAS	13248.0471	542917.4876	23.65985568	22.94678	12458207.79
Napa	2021	LDT2	Aggregated	Aggregated	DSL	26.23382815	1171.73422	0.039072964	29.98836	35138.3909
Napa	2021	LHDT1	Aggregated	Aggregated	GAS	1180.371605	34702.57844	3.620988905	9.58373	332580.1272
Napa	2021	LHDT1	Aggregated	Aggregated	DSL	1329.63457	43502.60774	2.530404475	17.19196	747895.01
Napa	2021	LHDT2	Aggregated	Aggregated	GAS	168.0438743	6041.72007	0.689910804	8.757248	52908.8415
Napa	2021	LHDT2	Aggregated	Aggregated	DSL	367.1932449	13991.36145	0.897268138	15.59329	218171.3436
Napa	2021	MDV	Aggregated	Aggregated	GAS	10667.18454	364442.5741	21.834251	16.69132	6083029.357
Napa	2021	MDV	Aggregated	Aggregated	DSL	169.3903183	7290.592618	0.320354334	22.7579	165918.5943
Napa	2021	MH	Aggregated	Aggregated	GAS	315.8395755	2674.499997	0.406950774	6.572048	17576.94221
Napa	2021	MH	Aggregated	Aggregated	DSL	77.47771119	693.562947	0.072270299	9.596791	6655.978608
Napa	2021	MHDT	Aggregated	Aggregated	GAS	107.0301044	5611.052005	0.877895876	6.391478	35862.91435
Napa	2021	MHDT	Aggregated	Aggregated	DSL	1105.344111	50561.74925	6.118658321	8.263535	417818.8016
Napa	2021	HHDT	Aggregated	Aggregated	GAS	7.702734719	956.5071724	0.210252267	4.549331	4351.467803
Napa	2021	HHDT	Aggregated	Aggregated	DSL	909.0775478	114791.9274	19.89517173	5.769838	662330.8801

Worker Trips
Sum of VMT*FE **77169933.67**
Total VMT **2821173.451**
Weighted Average FE **27.35384229 miles/gallon**

Vendor
Sum of VMT*FE **2496152.307**
Total VMT **273527.5665**
Weighted Average FE **9.125779675 miles/gallon**

Haul
Sum of VMT*FE **666682.3479**
Total VMT **115748.4346**
Weighted Average FE **5.759752607 miles/gallon**

Construction Assumptions

Source: AQ/GHG Appendix

ON-SITE:

Trips and VMT	Trips per Day			Total Trips	Trips per Phase			VMT per Phase	Fuel Consumption (gallons)							
	Worker		Hauling Trip		Vendor		Hauling Trip		Worker Trips	Vendor Trips	Hauling Trips					
	Trip Number	Vendor Trip Number			Trip Length	Vendor Trip Length										
Demolition	15	0	4	10.8	7.3	20	20	300	0	4	3,240	0	80	118.45	0.00	13.89
Site Preparation	18	0	0	10.8	7.3	20	10	180	0	0	1,944	0	0	71.07	0.00	0.00
Grading	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	118.45	0.00	0.00
Building Construction	111	43	0	10.8	7.3	20	230	25,530	9,890	0	275,724	72,197	0	10,079.90	7,911.32	0.00
Paving	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	118.45	0.00	0.00
Architectural Coating	22	0	0	10.8	7.3	20	20	440	0	0	4,752	0	0	173.72	0.00	0.00
Mobilizing Equipment	111	43	0	10.8	7.3	20	5	555	215	0	5,994	1,570	0	219.13	171.99	0.00

Total Construction VMT (miles) Parcel 1A
371,981

Total Fuel Consumption (gallons) Parcel 1A
18,996

Construction Vehicle Fuel Calculations for Parcel 1B

California Air Resource Board (ARB). 2020. EMFAC2014 Web Database. Website: <https://www.arb.ca.gov/emfac/2014/>. Accessed March 9, 2020.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Napa

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

Given Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Calculations	
									FE (mi/gallon)	VMT*FE
Napa	2021	LDA	Aggregated	Aggregated	GAS	43624.49526	1763696.71	57.05078595	30.9145	54523807.73
Napa	2021	LDA	Aggregated	Aggregated	DSL	535.7381891	21528.23555	0.555620864	38.74627	834138.8085
Napa	2021	LDT1	Aggregated	Aggregated	GAS	3422.782392	120036.4188	4.697904967	25.55105	3067056.901
Napa	2021	LDT1	Aggregated	Aggregated	DSL	3.836653719	89.69880464	0.003052183	29.38841	2636.10515
Napa	2021	LDT2	Aggregated	Aggregated	GAS	13248.0471	542917.4876	23.65985568	22.94678	12458207.79
Napa	2021	LDT2	Aggregated	Aggregated	DSL	26.23382815	1171.73422	0.039072964	29.98836	35138.3909
Napa	2021	LHDT1	Aggregated	Aggregated	GAS	1180.371605	34702.57844	3.620988905	9.58373	332580.1272
Napa	2021	LHDT1	Aggregated	Aggregated	DSL	1329.63457	43502.60774	2.530404475	17.19196	747895.01
Napa	2021	LHDT2	Aggregated	Aggregated	GAS	168.0438743	6041.72007	0.689910804	8.757248	52908.8415
Napa	2021	LHDT2	Aggregated	Aggregated	DSL	367.1932449	13991.36145	0.897268138	15.59329	218171.3436
Napa	2021	MDV	Aggregated	Aggregated	GAS	10667.18454	364442.5741	21.834251	16.69132	6083029.357
Napa	2021	MDV	Aggregated	Aggregated	DSL	169.3903183	7290.592618	0.320354334	22.7579	165918.5943
Napa	2021	MH	Aggregated	Aggregated	GAS	315.8395755	2674.499997	0.406950774	6.572048	17576.94221
Napa	2021	MH	Aggregated	Aggregated	DSL	77.47771119	693.562947	0.072270299	9.596791	6655.978608
Napa	2021	MHDT	Aggregated	Aggregated	GAS	107.0301044	5611.052005	0.877895876	6.391478	35862.91435
Napa	2021	MHDT	Aggregated	Aggregated	DSL	1105.344111	50561.74925	6.118658321	8.263535	417818.8016
Napa	2021	HHDT	Aggregated	Aggregated	GAS	7.702734719	956.5071724	0.210252267	4.549331	4351.467803
Napa	2021	HHDT	Aggregated	Aggregated	DSL	909.0775478	114791.9274	19.89517173	5.769838	662330.8801

Worker Trips
Sum of VMT*FE 77169933.67
Total VMT 2821173.451
Weighted Average FE 27.35384229 miles/gallon

Vendor
Sum of VMT*FE 2496152.307
Total VMT 273527.5665
Weighted Average FE 9.125779675 miles/gallon

Haul
Sum of VMT*FE 666682.3479
Total VMT 115748.4346
Weighted Average FE 5.759752607 miles/gallon

Construction Assumptions

Source: AQ/GHG Appendix

ON-SITE:

Trips and VMT	Trips per Day			Total Trips	Trips per Phase			Num Days	VMT per Phase			Fuel Consumption (gallons)				
	Worker		Hauling Trip Number		Vendor		Hauling Trip Number		Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips		
	Trip Number	Vendor Trip Number			Trip Length	Vendor Trip Length									Hauling Trip Length	
Phase Name	18	0	4	10.8	7.3	20	10	180	0	4	1,944	0	80	71.07	0.00	13.89
Site Preparation	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	118.45	0.00	0.00

Total Construction VMT (miles) Parcel 1B
5,264

Total Fuel Consumption (gallons) Parcel 1B
203

Construction Equipment Fuel Calculation

OffRoad Equipment ON-SITE

Parcel 1A	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of		Diesel Fuel Usage
							Days	HP Hours	
	Demolition	Concrete/Industrial Saws	1	8.00	81 0.73		20	9,460.80	473.04
	Demolition	Excavators	3	8.00	158 0.38		20	28,819.20	1,440.96
	Demolition	Rubber Tired Dozers	2	8.00	247 0.40		20	31,616.00	1,580.80
	Site Preparation	Rubber Tired Dozers	3	8.00	247 0.40		10	23,712.00	1,185.60
	Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97 0.37		10	11,484.80	574.24
	Grading	Excavators	1	8.00	158 0.38		20	9,606.40	480.32
	Grading	Graders	1	8.00	187 0.41		20	12,267.20	613.36
	Grading	Rubber Tired Dozers	1	8.00	247 0.40		20	15,808.00	790.40
	Grading	Tractors/Loaders/Backhoes	3	8.00	97 0.37		20	17,227.20	861.36
	Building Construction	Cranes	1	7.00	231 0.29		230	107,853.90	5,392.70
	Building Construction	Forklifts	3	8.00	89 0.20		230	98,256.00	4,912.80
	Building Construction	Generator Sets	1	8.00	84 0.74		230	114,374.40	5,718.72
	Building Construction	Tractors/Loaders/Backhoes	3	7.00	97 0.37		230	173,348.70	8,667.44
	Building Construction	Welders	1	8.00	46 0.45		230	38,088.00	1,904.40
	Paving	Pavers	2	8.00	130 0.42		20	17,472.00	873.60
	Paving	Paving Equipment	2	8.00	132 0.36		20	15,206.40	760.32
	Paving	Rollers	2	8.00	80 0.38		20	9,728.00	486.40
	Architectural Coating	Air Compressors	1	6.00	78 0.48		20	4,492.80	224.64
	Mobilizing Equipment	Cranes	1	7.00	231 0.29		5	2,344.65	117.23
	Mobilizing Equipment	Forklifts	3	8.00	89 0.20		5	2,136.00	106.80
	Mobilizing Equipment	Generator Sets	1	8.00	84 0.74		5	2,486.40	124.32
	Mobilizing Equipment	Tractors/Loaders/Backhoes	3	7.00	97 0.37		5	3,768.45	188.42
	Mobilizing Equipment	Welders	1	8.00	46 0.45		5	828.00	41.40

Parcel 1B	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of		Diesel Fuel Usage
							Days	HP Hours	
	Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40	10	23,712.00	11,856.00
	Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37	10	11,484.80	5,742.40
	Grading	Excavators	1	8.00	158	0.38	20	9,606.40	4,803.20
	Grading	Graders	1	8.00	187	0.41	20	12,267.20	6,133.60
	Grading	Rubber Tired Dozers	1	8.00	247	0.40	20	15,808.00	7,904.00
	Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37	20	17,227.20	8,613.60
Total Construction Equipment Fuel Consumption									82,572.07 gallons

Notes:

Equipment assumptions are consistent with those used to estimate GHG emissions (see CalEEMod output files).
 Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.
 South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.
 Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>. Accessed April 18, 2019.

Construction Schedule

Devin Road C&D Facility Mitigated Run-Parcel 1A - Napa County, Annual								Devin Road C&D Facility Parcel Mitigated Run-Parcel 1B - Napa County, Annual							
Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description	Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/29/2020	5	20		1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10		2	Grading	Grading	7/15/2020	8/11/2020	5	20	
3	Grading	Grading	8/13/2020	9/9/2020	5	20									
4	Building Construction	Building Construction	9/9/2020	7/27/2021	5	230									
5	Paving	Paving	7/26/2021	8/24/2021	5	20									
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20									
7	Mobilizing Equipment	Building Construction	9/22/2021	9/26/2021	5	5									

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3.0 Construction Detail

Construction Office Electricity Calculation

Energy Appendix: Typical Construction Trailer - Napa County, Annual

12837.6 kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	12,837.6 kWh/yr
Total Over Construction	16,038.207 kWh

Total Construction Schedule

Start	7/1/2020
End	9/30/2021
Total Calendar Days	456
Years	1.25

Operation Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

kWh/yr = kilowatt hours per year

Land Use	Electricity Use (kWh/yr)	General Light Industry kWh/year
General Light Industry	1081150	1081150
Enclosed Parking with Elevator		
Other Asphalt Surfaces	0	
Other Non-Asphalt Surfaces	0	
Total	1,081,150 kWh/yr	