

Appendix A

Air Quality/Greenhouse Gas Emissions Modeling Results

5100 Long Beach Blvd - South Coast Air Basin, Annual

5100 Long Beach Blvd
South Coast Air Basin, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	38.00	Dwelling Unit	1.80	59,330.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	CH4 Intensity (lb/MWhr)	0.015	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

5100 Long Beach Blvd - South Coast Air Basin, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - taken from project plan

Construction Phase - per client plans

Off-road Equipment -

Off-road Equipment - Per client info

Off-road Equipment - Per client provided info

Off-road Equipment - per client info

Off-road Equipment - per client provided info

Demolition -

Grading - Site is approximately 1.8 acres

Architectural Coating - architectural and area code compliance with Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Assume no fireplaces

Area Coating -

Energy Use - 7% reduction for 2019 building code; net zero energy buildings

Water And Wastewater - City uses sanitary sewer only. 20% reduction for 2016 CALGreen

Solid Waste - Updated to reflect 70% diversion rate in City

Construction Off-road Equipment Mitigation - compliance w rule 403- watering twice a day

Mobile Land Use Mitigation -

Area Mitigation - Zero VOC interior paint per GPR scorecard

Energy Mitigation - Per GPR Scorecard. Rooftop solar panels

Water Mitigation - Per GPR Scorecard

Fleet Mix -

Trips and VMT -

5100 Long Beach Blvd - South Coast Air Basin, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionPhase	NumDays	10.00	261.00
tblConstructionPhase	NumDays	200.00	365.00
tblConstructionPhase	NumDays	4.00	25.00
tblConstructionPhase	NumDays	10.00	222.00
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	NT24NG	6,384.00	0.00
tblEnergyUse	T24E	243.83	226.76
tblEnergyUse	T24NG	10,792.56	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	32.30	0.00
tblFireplaces	NumberNoFireplace	3.80	38.00
tblFireplaces	NumberWood	1.90	0.00
tblGrading	AcresOfGrading	34.38	1.50
tblGrading	AcresOfGrading	21.00	1.00
tblGrading	MaterialImported	0.00	1,950.00
tblLandUse	LandUseSquareFeet	38,000.00	59,330.00
tblLandUse	LotAcreage	2.38	1.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

5100 Long Beach Blvd - South Coast Air Basin, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Paving
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	17.48	10.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	1,980,682.38
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

5100 Long Beach Blvd - South Coast Air Basin, Annual

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4908	3.1219	3.2350	6.5100e-003	0.1652	0.1427	0.3079	0.0703	0.1354	0.2057	0.0000	559.2507	559.2507	0.1172	0.0000	562.1806
2023	0.1680	0.6886	0.7960	1.5000e-003	0.0194	0.0303	0.0497	5.1800e-003	0.0294	0.0345	0.0000	126.1119	126.1119	0.0173	0.0000	126.5441
Maximum	0.4908	3.1219	3.2350	6.5100e-003	0.1652	0.1427	0.3079	0.0703	0.1354	0.2057	0.0000	559.2507	559.2507	0.1172	0.0000	562.1806

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					
2022	0.4908	3.1219	3.2350	6.5100e-003	0.1131	0.1427	0.2558	0.0420	0.1354	0.1774	0.0000	559.2501	559.2501	0.1172	0.0000	562.1800
2023	0.1680	0.6886	0.7960	1.5000e-003	0.0194	0.0303	0.0497	5.1800e-003	0.0294	0.0345	0.0000	126.1118	126.1118	0.0173	0.0000	126.5440
Maximum	0.4908	3.1219	3.2350	6.5100e-003	0.1131	0.1427	0.2558	0.0420	0.1354	0.1774	0.0000	559.2501	559.2501	0.1172	0.0000	562.1800

5100 Long Beach Blvd - South Coast Air Basin, 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
Percent Reduction	0.00	0.00	0.00	0.00	28.24	0.00	14.58	37.52	0.00	11.78	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-15-2022	4-14-2022	1.0507	1.0507
2	4-15-2022	7-14-2022	0.8982	0.8982
3	7-15-2022	10-14-2022	1.0105	1.0105
4	10-15-2022	1-14-2023	0.7517	0.7517
5	1-15-2023	4-14-2023	0.6418	0.6418
6	4-15-2023	7-14-2023	0.1211	0.1211
		Highest	1.0507	1.0507

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	0.2447	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	30.6369	30.6369	1.3000e-003	2.6000e-004	30.7468
Mobile	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Waste						0.0000	0.0000		0.0000	0.0000	2.1294	0.0000	2.1294	0.1258	0.0000	5.2754
Water						0.0000	0.0000		0.0000	0.0000	0.7008	6.9232	7.6240	2.7100e-003	1.5800e-003	8.1632
Total	0.2863	0.2324	0.9512	2.7000e-003	0.2786	3.8100e-003	0.2824	0.0746	3.7000e-003	0.0783	2.8302	287.6035	290.4337	0.1404	1.8400e-003	294.4924

5100 Long Beach Blvd - South Coast Air Basin, 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	0.2262	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555
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	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Waste						0.0000	0.0000		0.0000	0.0000	2.1294	0.0000	2.1294	0.1258	0.0000	5.2754
Water						0.0000	0.0000		0.0000	0.0000	0.5606	6.0952	6.6559	2.1900e-003	1.2700e-003	7.0893
Total	0.2677	0.2324	0.9512	2.7000e-003	0.2786	3.8100e-003	0.2824	0.0746	3.7000e-003	0.0783	2.6900	256.1387	258.8287	0.1386	1.2700e-003	262.6717

	ROG	NOx	CO	SO2	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	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.95	10.94	10.88	1.30	30.98	10.81

3.0 Construction Detail**Construction Phase**

5100 Long Beach Blvd - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/15/2022	1/31/2022	6	14	
2	Grading	Grading	2/1/2022	3/1/2022	6	25	
3	Paving	Paving	2/15/2022	10/31/2022	6	222	
4	Building Construction	Building Construction	3/2/2022	5/1/2023	6	365	
5	Architectural Coating	Architectural Coating	7/1/2022	5/1/2023	6	261	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 120,143; Residential Outdoor: 40,048; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

5100 Long Beach Blvd - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

5100 Long Beach Blvd - South Coast Air Basin, 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
Site Preparation	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	244.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0374	0.0000	0.0374	0.0203	0.0000	0.0203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1559	0.1027	2.4000e-004		6.5800e-003	6.5800e-003		6.0600e-003	6.0600e-003	0.0000	20.9639	20.9639	6.7800e-003	0.0000	21.1334
Total	0.0145	0.1559	0.1027	2.4000e-004	0.0374	6.5800e-003	0.0440	0.0203	6.0600e-003	0.0264	0.0000	20.9639	20.9639	6.7800e-003	0.0000	21.1334

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.2 Site Preparation - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.9000e-004	3.3800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9685	0.9685	2.0000e-005	0.0000	0.9691
Total	4.1000e-004	2.9000e-004	3.3800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9685	0.9685	2.0000e-005	0.0000	0.9691

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0168	0.0000	0.0168	9.1500e-003	0.0000	9.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1559	0.1027	2.4000e-004		6.5800e-003	6.5800e-003		6.0600e-003	6.0600e-003	0.0000	20.9638	20.9638	6.7800e-003	0.0000	21.1334
Total	0.0145	0.1559	0.1027	2.4000e-004	0.0168	6.5800e-003	0.0234	9.1500e-003	6.0600e-003	0.0152	0.0000	20.9638	20.9638	6.7800e-003	0.0000	21.1334

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.2 Site Preparation - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.9000e-004	3.3800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9685	0.9685	2.0000e-005	0.0000	0.9691
Total	4.1000e-004	2.9000e-004	3.3800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9685	0.9685	2.0000e-005	0.0000	0.9691

3.3 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0574	0.0000	0.0574	0.0311	0.0000	0.0311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3348	0.2206	5.2000e-004		0.0139	0.0139		0.0129	0.0129	0.0000	45.5456	45.5456	0.0136	0.0000	45.8864
Total	0.0317	0.3348	0.2206	5.2000e-004	0.0574	0.0139	0.0713	0.0311	0.0129	0.0440	0.0000	45.5456	45.5456	0.0136	0.0000	45.8864

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.3 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0302	7.1000e-003	9.0000e-005	2.1000e-003	9.0000e-005	2.1800e-003	5.8000e-004	8.0000e-005	6.6000e-004	0.0000	9.0461	9.0461	6.5000e-004	0.0000	9.0624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	1.7700e-003	0.0308	0.0144	1.1000e-004	4.5700e-003	1.1000e-004	4.6700e-003	1.2400e-003	1.0000e-004	1.3300e-003	0.0000	11.1215	11.1215	7.0000e-004	0.0000	11.1390

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0258	0.0000	0.0258	0.0140	0.0000	0.0140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3348	0.2206	5.2000e-004		0.0139	0.0139		0.0129	0.0129	0.0000	45.5455	45.5455	0.0136	0.0000	45.8863
Total	0.0317	0.3348	0.2206	5.2000e-004	0.0258	0.0139	0.0397	0.0140	0.0129	0.0269	0.0000	45.5455	45.5455	0.0136	0.0000	45.8863

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.3 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0302	7.1000e-003	9.0000e-005	2.1000e-003	9.0000e-005	2.1800e-003	5.8000e-004	8.0000e-005	6.6000e-004	0.0000	9.0461	9.0461	6.5000e-004	0.0000	9.0624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	1.7700e-003	0.0308	0.0144	1.1000e-004	4.5700e-003	1.1000e-004	4.6700e-003	1.2400e-003	1.0000e-004	1.3300e-003	0.0000	11.1215	11.1215	7.0000e-004	0.0000	11.1390

3.4 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3781	158.3781	0.0512	0.0000	159.6587
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3781	158.3781	0.0512	0.0000	159.6587

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.4 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-003	4.6400e-003	0.0537	1.7000e-004	0.0183	1.3000e-004	0.0184	4.8500e-003	1.2000e-004	4.9700e-003	0.0000	15.3577	15.3577	3.9000e-004	0.0000	15.3674
Total	6.5000e-003	4.6400e-003	0.0537	1.7000e-004	0.0183	1.3000e-004	0.0184	4.8500e-003	1.2000e-004	4.9700e-003	0.0000	15.3577	15.3577	3.9000e-004	0.0000	15.3674

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3779	158.3779	0.0512	0.0000	159.6585
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3779	158.3779	0.0512	0.0000	159.6585

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.4 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-003	4.6400e-003	0.0537	1.7000e-004	0.0183	1.3000e-004	0.0184	4.8500e-003	1.2000e-004	4.9700e-003	0.0000	15.3577	15.3577	3.9000e-004	0.0000	15.3674
Total	6.5000e-003	4.6400e-003	0.0537	1.7000e-004	0.0183	1.3000e-004	0.0184	4.8500e-003	1.2000e-004	4.9700e-003	0.0000	15.3577	15.3577	3.9000e-004	0.0000	15.3674

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8658	237.8658	0.0414	0.0000	238.9015
Total	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8658	237.8658	0.0414	0.0000	238.9015

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0484	0.0122	1.3000e-004	3.3000e-003	9.0000e-005	3.3900e-003	9.5000e-004	9.0000e-005	1.0400e-003	0.0000	12.6107	12.6107	7.9000e-004	0.0000	12.6305
Worker	0.0138	9.8600e-003	0.1140	3.6000e-004	0.0388	2.8000e-004	0.0391	0.0103	2.6000e-004	0.0106	0.0000	32.6248	32.6248	8.2000e-004	0.0000	32.6454
Total	0.0152	0.0582	0.1262	4.9000e-004	0.0421	3.7000e-004	0.0425	0.0113	3.5000e-004	0.0116	0.0000	45.2355	45.2355	1.6100e-003	0.0000	45.2758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8655	237.8655	0.0414	0.0000	238.9012
Total	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8655	237.8655	0.0414	0.0000	238.9012

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0484	0.0122	1.3000e-004	3.3000e-003	9.0000e-005	3.3900e-003	9.5000e-004	9.0000e-005	1.0400e-003	0.0000	12.6107	12.6107	7.9000e-004	0.0000	12.6305
Worker	0.0138	9.8600e-003	0.1140	3.6000e-004	0.0388	2.8000e-004	0.0391	0.0103	2.6000e-004	0.0106	0.0000	32.6248	32.6248	8.2000e-004	0.0000	32.6454
Total	0.0152	0.0582	0.1262	4.9000e-004	0.0421	3.7000e-004	0.0425	0.0113	3.5000e-004	0.0116	0.0000	45.2355	45.2355	1.6100e-003	0.0000	45.2758

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5236	93.5236	0.0159	0.0000	93.9206
Total	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5236	93.5236	0.0159	0.0000	93.9206

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0143	4.3000e-003	5.0000e-005	1.3000e-003	2.0000e-005	1.3100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	4.8046	4.8046	2.7000e-004	0.0000	4.8114
Worker	5.1100e-003	3.5100e-003	0.0413	1.4000e-004	0.0153	1.1000e-004	0.0154	4.0500e-003	1.0000e-004	4.1500e-003	0.0000	12.3479	12.3479	2.9000e-004	0.0000	12.3552
Total	5.5200e-003	0.0178	0.0456	1.9000e-004	0.0166	1.3000e-004	0.0167	4.4200e-003	1.2000e-004	4.5400e-003	0.0000	17.1525	17.1525	5.6000e-004	0.0000	17.1666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5234	93.5234	0.0159	0.0000	93.9205
Total	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5234	93.5234	0.0159	0.0000	93.9205

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0143	4.3000e-003	5.0000e-005	1.3000e-003	2.0000e-005	1.3100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	4.8046	4.8046	2.7000e-004	0.0000	4.8114
Worker	5.1100e-003	3.5100e-003	0.0413	1.4000e-004	0.0153	1.1000e-004	0.0154	4.0500e-003	1.0000e-004	4.1500e-003	0.0000	12.3479	12.3479	2.9000e-004	0.0000	12.3552
Total	5.5200e-003	0.0178	0.0456	1.9000e-004	0.0166	1.3000e-004	0.0167	4.4200e-003	1.2000e-004	4.5400e-003	0.0000	17.1525	17.1525	5.6000e-004	0.0000	17.1666

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035
Total	0.1285	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457
Total	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035
Total	0.1285	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457
Total	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457

3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1493	13.1493	7.9000e-004	0.0000	13.1689
Total	0.0831	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1493	13.1493	7.9000e-004	0.0000	13.1689

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880
Total	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1492	13.1492	7.9000e-004	0.0000	13.1689
Total	0.0831	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1492	13.1492	7.9000e-004	0.0000	13.1689

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880
Total	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880

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

5100 Long Beach Blvd - South Coast Air Basin, 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	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Unmitigated	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	220.78	215.46	183.92	733,848	733,848
Total	220.78	215.46	183.92	733,848	733,848

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5100 Long Beach Blvd - South Coast Air Basin, Annual

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

[illegible]

5100 Long Beach Blvd - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

5100 Long Beach Blvd - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	190869	30.6369	1.3000e-003	2.6000e-004	30.7468
Total		30.6369	1.3000e-003	2.6000e-004	30.7468

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	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**

5100 Long Beach Blvd - South Coast Air Basin, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2262	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555
Unmitigated	0.2447	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555

5100 Long Beach Blvd - South Coast Air Basin, Annual

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	0.0186					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0118	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555
Total	0.2447	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555

5100 Long Beach Blvd - South Coast Air Basin, 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
Consumer Products	0.2144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0118	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555
Total	0.2262	4.5100e-003	0.3917	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6555

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

5100 Long Beach Blvd - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.6559	2.1900e-003	1.2700e-003	7.0893
Unmitigated	7.6240	2.7100e-003	1.5800e-003	8.1632

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.98068 / 1.56086	7.6240	2.7100e-003	1.5800e-003	8.1632
Total		7.6240	2.7100e-003	1.5800e-003	8.1632

5100 Long Beach Blvd - South Coast Air Basin, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.58455 / 1.56086	6.6559	2.1900e-003	1.2700e-003	7.0893
Total		6.6559	2.1900e-003	1.2700e-003	7.0893

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.1294	0.1258	0.0000	5.2754
Unmitigated	2.1294	0.1258	0.0000	5.2754

5100 Long Beach Blvd - South Coast Air Basin, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	10.49	2.1294	0.1258	0.0000	5.2754
Total		2.1294	0.1258	0.0000	5.2754

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	10.49	2.1294	0.1258	0.0000	5.2754
Total		2.1294	0.1258	0.0000	5.2754

9.0 Operational Offroad

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

5100 Long Beach Blvd - South Coast Air Basin, Annual

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
----------------	--------

11.0 Vegetation

5100 Long Beach Blvd - South Coast Air Basin, Summer

5100 Long Beach Blvd
South Coast Air Basin, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	38.00	Dwelling Unit	1.80	59,330.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	CH4 Intensity (lb/MWhr)	0.015	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

5100 Long Beach Blvd - South Coast Air Basin, Summer

Project Characteristics - Adjusted for 2030 RPS

Land Use - taken from project plan

Construction Phase - per client plans

Off-road Equipment -

Off-road Equipment - Per client info

Off-road Equipment - Per client provided info

Off-road Equipment - per client info

Off-road Equipment - per client provided info

Demolition -

Grading - Site is approximately 1.8 acres

Architectural Coating - architectural and area code compliance with Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Assume no fireplaces

Area Coating -

Energy Use - 7% reduction for 2019 building code; net zero energy buildings

Water And Wastewater - City uses sanitary sewer only. 20% reduction for 2016 CALGreen

Solid Waste - Updated to reflect 70% diversion rate in City

Construction Off-road Equipment Mitigation - compliance w rule 403- watering twice a day

Mobile Land Use Mitigation -

Area Mitigation - Zero VOC interior paint per GPR scorecard

Energy Mitigation - Per GPR Scorecard. Rooftop solar panels

Water Mitigation - Per GPR Scorecard

Fleet Mix -

Trips and VMT -

5100 Long Beach Blvd - South Coast Air Basin, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionPhase	NumDays	10.00	261.00
tblConstructionPhase	NumDays	200.00	365.00
tblConstructionPhase	NumDays	4.00	25.00
tblConstructionPhase	NumDays	10.00	222.00
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	NT24NG	6,384.00	0.00
tblEnergyUse	T24E	243.83	226.76
tblEnergyUse	T24NG	10,792.56	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	32.30	0.00
tblFireplaces	NumberNoFireplace	3.80	38.00
tblFireplaces	NumberWood	1.90	0.00
tblGrading	AcresOfGrading	34.38	1.50
tblGrading	AcresOfGrading	21.00	1.00
tblGrading	MaterialImported	0.00	1,950.00
tblLandUse	LandUseSquareFeet	38,000.00	59,330.00
tblLandUse	LotAcreage	2.38	1.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

5100 Long Beach Blvd - South Coast Air Basin, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Paving
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	17.48	10.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	1,980,682.38
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

5100 Long Beach Blvd - South Coast Air Basin, Summer

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1432	36.2940	27.3738	0.0687	5.5127	1.4627	6.5910	2.9491	1.3546	3.9900	0.0000	6,745.016 4	6,745.016 4	1.7760	0.0000	6,789.417 3
2023	3.2633	13.3591	15.5277	0.0293	0.3833	0.5881	0.9714	0.1022	0.5703	0.6725	0.0000	2,716.053 5	2,716.053 5	0.3703	0.0000	2,725.310 1
Maximum	4.1432	36.2940	27.3738	0.0687	5.5127	1.4627	6.5910	2.9491	1.3546	3.9900	0.0000	6,745.016 4	6,745.016 4	1.7760	0.0000	6,789.417 3

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					
2022	4.1432	36.2940	27.3738	0.0687	2.6044	1.4627	4.0670	1.3516	1.3546	2.6200	0.0000	6,745.016 4	6,745.016 4	1.7760	0.0000	6,789.417 3
2023	3.2633	13.3591	15.5277	0.0293	0.3833	0.5881	0.9714	0.1022	0.5703	0.6725	0.0000	2,716.053 5	2,716.053 5	0.3703	0.0000	2,725.310 1
Maximum	4.1432	36.2940	27.3738	0.0687	2.6044	1.4627	4.0670	1.3516	1.3546	2.6200	0.0000	6,745.016 4	6,745.016 4	1.7760	0.0000	6,789.417 3

5100 Long Beach Blvd - South Coast Air Basin, 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	49.33	0.00	33.38	52.36	0.00	29.38	0.00	0.00	0.00	0.00	0.00	0.00

5100 Long Beach Blvd - South Coast Air Basin, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
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	0.2516	1.2498	3.3211	0.0157	1.6030	9.2800e-003	1.6122	0.4287	8.6200e-003	0.4373		1,611.3049	1,611.3049	0.0620		1,612.8555
Total	1.6222	1.2859	6.4548	0.0159	1.6030	0.0267	1.6296	0.4287	0.0260	0.4547	0.0000	1,616.9499	1,616.9499	0.0674	0.0000	1,618.6359

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
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	0.2516	1.2498	3.3211	0.0157	1.6030	9.2800e-003	1.6122	0.4287	8.6200e-003	0.4373		1,611.3049	1,611.3049	0.0620		1,612.8555
Total	1.5205	1.2859	6.4548	0.0159	1.6030	0.0267	1.6296	0.4287	0.0260	0.4547	0.0000	1,616.9499	1,616.9499	0.0674	0.0000	1,618.6359

5100 Long Beach Blvd - South Coast Air Basin, 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	6.27	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	1/15/2022	1/31/2022	6	14	
2	Grading	Grading	2/1/2022	3/1/2022	6	25	
3	Paving	Paving	2/15/2022	10/31/2022	6	222	
4	Building Construction	Building Construction	3/2/2022	5/1/2023	6	365	
5	Architectural Coating	Architectural Coating	7/1/2022	5/1/2023	6	261	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 120,143; Residential Outdoor: 40,048; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

5100 Long Beach Blvd - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

5100 Long Beach Blvd - South Coast Air Basin, 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	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	244.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3451	0.0000	5.3451	2.9046	0.0000	2.9046			0.0000			0.0000
Off-Road	2.0774	22.2672	14.6664	0.0341		0.9404	0.9404		0.8652	0.8652		3,301.244 4	3,301.244 4	1.0677		3,327.936 6
Total	2.0774	22.2672	14.6664	0.0341	5.3451	0.9404	6.2855	2.9046	0.8652	3.7698		3,301.244 4	3,301.244 4	1.0677		3,327.936 6

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.2 Site Preparation - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.4053	0.0000	2.4053	1.3071	0.0000	1.3071			0.0000			0.0000
Off-Road	2.0774	22.2672	14.6664	0.0341		0.9404	0.9404		0.8652	0.8652	0.0000	3,301.244 4	3,301.244 4	1.0677		3,327.936 6
Total	2.0774	22.2672	14.6664	0.0341	2.4053	0.9404	3.3457	1.3071	0.8652	2.1723	0.0000	3,301.244 4	3,301.244 4	1.0677		3,327.936 6

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.2 Site Preparation - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

3.3 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5890	0.0000	4.5890	2.4909	0.0000	2.4909			0.0000			0.0000
Off-Road	2.5361	26.7797	17.6484	0.0416		1.1113	1.1113		1.0311	1.0311		4,016.4333	4,016.4333	1.2021		4,046.4848
Total	2.5361	26.7797	17.6484	0.0416	4.5890	1.1113	5.7004	2.4909	1.0311	3.5220		4,016.4333	4,016.4333	1.2021		4,046.4848

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.3 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0705	2.3424	0.5531	7.3900e-003	0.1705	6.8200e-003	0.1773	0.0467	6.5300e-003	0.0532		803.5756	803.5756	0.0564		804.9855
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	0.1412	2.3868	1.1781	9.3200e-003	0.3717	8.2700e-003	0.3799	0.1001	7.8600e-003	0.1079		995.6830	995.6830	0.0613		997.2142

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.0651	0.0000	2.0651	1.1209	0.0000	1.1209			0.0000			0.0000
Off-Road	2.5361	26.7797	17.6484	0.0416		1.1113	1.1113		1.0311	1.0311	0.0000	4,016.4333	4,016.4333	1.2021		4,046.4848
Total	2.5361	26.7797	17.6484	0.0416	2.0651	1.1113	3.1764	1.1209	1.0311	2.1520	0.0000	4,016.4333	4,016.4333	1.2021		4,046.4848

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.3 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0705	2.3424	0.5531	7.3900e-003	0.1705	6.8200e-003	0.1773	0.0467	6.5300e-003	0.0532		803.5756	803.5756	0.0564		804.9855
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	0.1412	2.3868	1.1781	9.3200e-003	0.3717	8.2700e-003	0.3799	0.1001	7.8600e-003	0.1079		995.6830	995.6830	0.0613		997.2142

3.4 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145		1,572.8107	1,572.8107	0.5087		1,585.5277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145		1,572.8107	1,572.8107	0.5087		1,585.5277

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.4 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145	0.0000	1,572.8107	1,572.8107	0.5087		1,585.5277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145	0.0000	1,572.8107	1,572.8107	0.5087		1,585.5277

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.4 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0106	0.3639	0.0881	1.0000e-003	0.0256	6.8000e-004	0.0263	7.3700e-003	6.5000e-004	8.0200e-003		107.3481	107.3481	6.4700e-003		107.5098
Worker	0.1060	0.0666	0.9375	2.8900e-003	0.3018	2.1700e-003	0.3040	0.0800	2.0000e-003	0.0820		288.1611	288.1611	7.2800e-003		288.3431
Total	0.1166	0.4304	1.0256	3.8900e-003	0.3274	2.8500e-003	0.3303	0.0874	2.6500e-003	0.0901		395.5091	395.5091	0.0138		395.8529

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0106	0.3639	0.0881	1.0000e-003	0.0256	6.8000e-004	0.0263	7.3700e-003	6.5000e-004	8.0200e-003		107.3481	107.3481	6.4700e-003		107.5098
Worker	0.1060	0.0666	0.9375	2.8900e-003	0.3018	2.1700e-003	0.3040	0.0800	2.0000e-003	0.0820		288.1611	288.1611	7.2800e-003		288.3431
Total	0.1166	0.4304	1.0256	3.8900e-003	0.3274	2.8500e-003	0.3303	0.0874	2.6500e-003	0.0901		395.5091	395.5091	0.0138		395.8529

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.8300e-003	0.2743	0.0795	9.7000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		104.0146	104.0146	5.7200e-003		104.1575
Worker	0.0997	0.0603	0.8657	2.7800e-003	0.3018	2.1100e-003	0.3039	0.0800	1.9500e-003	0.0820		277.4277	277.4277	6.5700e-003		277.5919
Total	0.1075	0.3346	0.9452	3.7500e-003	0.3274	2.4200e-003	0.3298	0.0874	2.2500e-003	0.0897		381.4423	381.4423	0.0123		381.7494

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.8300e-003	0.2743	0.0795	9.7000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		104.0146	104.0146	5.7200e-003		104.1575
Worker	0.0997	0.0603	0.8657	2.7800e-003	0.3018	2.1100e-003	0.3039	0.0800	1.9500e-003	0.0820		277.4277	277.4277	6.5700e-003		277.5919
Total	0.1075	0.3346	0.9452	3.7500e-003	0.3274	2.4200e-003	0.3298	0.0874	2.2500e-003	0.0897		381.4423	381.4423	0.0123		381.7494

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	1.6269	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0196	0.0123	0.1736	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3632	53.3632	1.3500e-003		53.3969
Total	0.0196	0.0123	0.1736	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3632	53.3632	1.3500e-003		53.3969

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	1.6269	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0196	0.0123	0.1736	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3632	53.3632	1.3500e-003		53.3969
Total	0.0196	0.0123	0.1736	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3632	53.3632	1.3500e-003		53.3969

3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	1.6141	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.6 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0185	0.0112	0.1603	5.2000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		51.3755	51.3755	1.2200e-003		51.4059
Total	0.0185	0.0112	0.1603	5.2000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		51.3755	51.3755	1.2200e-003		51.4059

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	1.6141	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

5100 Long Beach Blvd - South Coast Air Basin, Summer

3.6 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0185	0.0112	0.1603	5.2000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		51.3755	51.3755	1.2200e-003		51.4059
Total	0.0185	0.0112	0.1603	5.2000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		51.3755	51.3755	1.2200e-003		51.4059

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

5100 Long Beach Blvd - South Coast Air Basin, 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	0.2516	1.2498	3.3211	0.0157	1.6030	9.2800e-003	1.6122	0.4287	8.6200e-003	0.4373		1,611.3049	1,611.3049	0.0620		1,612.8555
Unmitigated	0.2516	1.2498	3.3211	0.0157	1.6030	9.2800e-003	1.6122	0.4287	8.6200e-003	0.4373		1,611.3049	1,611.3049	0.0620		1,612.8555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	220.78	215.46	183.92	733,848	733,848
Total	220.78	215.46	183.92	733,848	733,848

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5100 Long Beach Blvd - South Coast Air Basin, Summer

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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

5100 Long Beach Blvd - South Coast Air Basin, 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					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	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**

5100 Long Beach Blvd - South Coast Air Basin, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
Unmitigated	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

5100 Long Beach Blvd - South Coast Air Basin, 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	0.1017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0942	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6450	5.6450	5.4200e-003		5.7804
Total	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

5100 Long Beach Blvd - South Coast Air Basin, 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0942	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6450	5.6450	5.4200e-003		5.7804
Total	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

5100 Long Beach Blvd - South Coast Air Basin, Summer

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

5100 Long Beach Blvd - South Coast Air Basin, Winter

5100 Long Beach Blvd
South Coast Air Basin, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	38.00	Dwelling Unit	1.80	59,330.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	CH4 Intensity (lb/MWhr)	0.015	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

5100 Long Beach Blvd - South Coast Air Basin, Winter

Project Characteristics - Adjusted for 2030 RPS

Land Use - taken from project plan

Construction Phase - per client plans

Off-road Equipment -

Off-road Equipment - Per client info

Off-road Equipment - Per client provided info

Off-road Equipment - per client info

Off-road Equipment - per client provided info

Demolition -

Grading - Site is approximately 1.8 acres

Architectural Coating - architectural and area code compliance with Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Assume no fireplaces

Area Coating -

Energy Use - 7% reduction for 2019 building code; net zero energy buildings

Water And Wastewater - City uses sanitary sewer only. 20% reduction for 2016 CALGreen

Solid Waste - Updated to reflect 70% diversion rate in City

Construction Off-road Equipment Mitigation - compliance w rule 403- watering twice a day

Mobile Land Use Mitigation -

Area Mitigation - Zero VOC interior paint per GPR scorecard

Energy Mitigation - Per GPR Scorecard. Rooftop solar panels

Water Mitigation - Per GPR Scorecard

Fleet Mix -

Trips and VMT -

5100 Long Beach Blvd - South Coast Air Basin, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionPhase	NumDays	10.00	261.00
tblConstructionPhase	NumDays	200.00	365.00
tblConstructionPhase	NumDays	4.00	25.00
tblConstructionPhase	NumDays	10.00	222.00
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	NT24NG	6,384.00	0.00
tblEnergyUse	T24E	243.83	226.76
tblEnergyUse	T24NG	10,792.56	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	32.30	0.00
tblFireplaces	NumberNoFireplace	3.80	38.00
tblFireplaces	NumberWood	1.90	0.00
tblGrading	AcresOfGrading	34.38	1.50
tblGrading	AcresOfGrading	21.00	1.00
tblGrading	MaterialImported	0.00	1,950.00
tblLandUse	LandUseSquareFeet	38,000.00	59,330.00
tblLandUse	LotAcreage	2.38	1.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

5100 Long Beach Blvd - South Coast Air Basin, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Paving
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	17.48	10.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	1,980,682.38
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

5100 Long Beach Blvd - South Coast Air Basin, Winter

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1631	36.3286	27.2982	0.0684	5.5127	1.4628	6.5911	2.9491	1.3547	3.9901	0.0000	6,709.227 3	6,709.227 3	1.7775	0.0000	6,753.664 9
2023	3.2765	13.3646	15.4344	0.0291	0.3833	0.5882	0.9714	0.1022	0.5703	0.6725	0.0000	2,692.829 4	2,692.829 4	0.3701	0.0000	2,702.081 8
Maximum	4.1631	36.3286	27.2982	0.0684	5.5127	1.4628	6.5911	2.9491	1.3547	3.9901	0.0000	6,709.227 3	6,709.227 3	1.7775	0.0000	6,753.664 9

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					
2022	4.1631	36.3286	27.2982	0.0684	2.6044	1.4628	4.0671	1.3516	1.3547	2.6201	0.0000	6,709.227 3	6,709.227 3	1.7775	0.0000	6,753.664 9
2023	3.2765	13.3646	15.4344	0.0291	0.3833	0.5882	0.9714	0.1022	0.5703	0.6725	0.0000	2,692.829 4	2,692.829 4	0.3701	0.0000	2,702.081 8
Maximum	4.1631	36.3286	27.2982	0.0684	2.6044	1.4628	4.0671	1.3516	1.3547	2.6201	0.0000	6,709.227 3	6,709.227 3	1.7775	0.0000	6,753.664 9

5100 Long Beach Blvd - South Coast Air Basin, 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	49.33	0.00	33.37	52.36	0.00	29.38	0.00	0.00	0.00	0.00	0.00	0.00

5100 Long Beach Blvd - South Coast Air Basin, 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	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
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	0.2407	1.2666	3.1140	0.0150	1.6030	9.3100e-003	1.6123	0.4287	8.6400e-003	0.4373		1,532.8715	1,532.8715	0.0623		1,534.4282
Total	1.6114	1.3027	6.2478	0.0151	1.6030	0.0267	1.6296	0.4287	0.0260	0.4547	0.0000	1,538.5165	1,538.5165	0.0677	0.0000	1,540.2086

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
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	0.2407	1.2666	3.1140	0.0150	1.6030	9.3100e-003	1.6123	0.4287	8.6400e-003	0.4373		1,532.8715	1,532.8715	0.0623		1,534.4282
Total	1.5097	1.3027	6.2478	0.0151	1.6030	0.0267	1.6296	0.4287	0.0260	0.4547	0.0000	1,538.5165	1,538.5165	0.0677	0.0000	1,540.2086

5100 Long Beach Blvd - South Coast Air Basin, 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	6.31	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	1/15/2022	1/31/2022	6	14	
2	Grading	Grading	2/1/2022	3/1/2022	6	25	
3	Paving	Paving	2/15/2022	10/31/2022	6	222	
4	Building Construction	Building Construction	3/2/2022	5/1/2023	6	365	
5	Architectural Coating	Architectural Coating	7/1/2022	5/1/2023	6	261	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 120,143; Residential Outdoor: 40,048; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

5100 Long Beach Blvd - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

5100 Long Beach Blvd - South Coast Air Basin, 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	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	244.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3451	0.0000	5.3451	2.9046	0.0000	2.9046			0.0000			0.0000
Off-Road	2.0774	22.2672	14.6664	0.0341		0.9404	0.9404		0.8652	0.8652		3,301.244 4	3,301.244 4	1.0677		3,327.936 6
Total	2.0774	22.2672	14.6664	0.0341	5.3451	0.9404	6.2855	2.9046	0.8652	3.7698		3,301.244 4	3,301.244 4	1.0677		3,327.936 6

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.2 Site Preparation - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.4053	0.0000	2.4053	1.3071	0.0000	1.3071			0.0000			0.0000
Off-Road	2.0774	22.2672	14.6664	0.0341		0.9404	0.9404		0.8652	0.8652	0.0000	3,301.244 4	3,301.244 4	1.0677		3,327.936 6
Total	2.0774	22.2672	14.6664	0.0341	2.4053	0.9404	3.3457	1.3071	0.8652	2.1723	0.0000	3,301.244 4	3,301.244 4	1.0677		3,327.936 6

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.2 Site Preparation - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

3.3 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5890	0.0000	4.5890	2.4909	0.0000	2.4909			0.0000			0.0000
Off-Road	2.5361	26.7797	17.6484	0.0416		1.1113	1.1113		1.0311	1.0311		4,016.4333	4,016.4333	1.2021		4,046.4848
Total	2.5361	26.7797	17.6484	0.0416	4.5890	1.1113	5.7004	2.4909	1.0311	3.5220		4,016.4333	4,016.4333	1.2021		4,046.4848

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.3 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0723	2.3690	0.5879	7.2600e-003	0.1705	6.9300e-003	0.1774	0.0467	6.6300e-003	0.0533		789.6603	789.6603	0.0584		791.1214
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	0.1504	2.4178	1.1527	9.0700e-003	0.3717	8.3800e-003	0.3800	0.1001	7.9600e-003	0.1080		969.8365	969.8365	0.0630		971.4110

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.0651	0.0000	2.0651	1.1209	0.0000	1.1209			0.0000			0.0000
Off-Road	2.5361	26.7797	17.6484	0.0416		1.1113	1.1113		1.0311	1.0311	0.0000	4,016.4333	4,016.4333	1.2021		4,046.4848
Total	2.5361	26.7797	17.6484	0.0416	2.0651	1.1113	3.1764	1.1209	1.0311	2.1520	0.0000	4,016.4333	4,016.4333	1.2021		4,046.4848

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.3 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0723	2.3690	0.5879	7.2600e-003	0.1705	6.9300e-003	0.1774	0.0467	6.6300e-003	0.0533		789.6603	789.6603	0.0584		791.1214
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	0.1504	2.4178	1.1527	9.0700e-003	0.3717	8.3800e-003	0.3800	0.1001	7.9600e-003	0.1080		969.8365	969.8365	0.0630		971.4110

3.4 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145		1,572.8107	1,572.8107	0.5087		1,585.5277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145		1,572.8107	1,572.8107	0.5087		1,585.5277

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.4 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145	0.0000	1,572.8107	1,572.8107	0.5087		1,585.5277
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6725	7.0905	8.0266	0.0163		0.3419	0.3419		0.3145	0.3145	0.0000	1,572.8107	1,572.8107	0.5087		1,585.5277

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.4 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0111	0.3627	0.0979	9.8000e-004	0.0256	7.0000e-004	0.0263	7.3700e-003	6.7000e-004	8.0400e-003		104.4088	104.4088	6.9100e-003		104.5815
Worker	0.1171	0.0731	0.8471	2.7100e-003	0.3018	2.1700e-003	0.3040	0.0800	2.0000e-003	0.0820		270.2643	270.2643	6.8100e-003		270.4345
Total	0.1282	0.4358	0.9450	3.6900e-003	0.3274	2.8700e-003	0.3303	0.0874	2.6700e-003	0.0901		374.6731	374.6731	0.0137		375.0160

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0111	0.3627	0.0979	9.8000e-004	0.0256	7.0000e-004	0.0263	7.3700e-003	6.7000e-004	8.0400e-003		104.4088	104.4088	6.9100e-003		104.5815
Worker	0.1171	0.0731	0.8471	2.7100e-003	0.3018	2.1700e-003	0.3040	0.0800	2.0000e-003	0.0820		270.2643	270.2643	6.8100e-003		270.4345
Total	0.1282	0.4358	0.9450	3.6900e-003	0.3274	2.8700e-003	0.3303	0.0874	2.6700e-003	0.0901		374.6731	374.6731	0.0137		375.0160

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	8.2400e-003	0.2728	0.0869	9.4000e-004	0.0256	3.3000e-004	0.0259	7.3700e-003	3.2000e-004	7.6800e-003		101.2121	101.2121	6.0600e-003		101.3636
Worker	0.1105	0.0661	0.7808	2.6100e-003	0.3018	2.1100e-003	0.3039	0.0800	1.9500e-003	0.0820		260.1970	260.1970	6.1400e-003		260.3504
Total	0.1187	0.3390	0.8676	3.5500e-003	0.3274	2.4400e-003	0.3298	0.0874	2.2700e-003	0.0897		361.4091	361.4091	0.0122		361.7140

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	8.2400e-003	0.2728	0.0869	9.4000e-004	0.0256	3.3000e-004	0.0259	7.3700e-003	3.2000e-004	7.6800e-003		101.2121	101.2121	6.0600e-003		101.3636
Worker	0.1105	0.0661	0.7808	2.6100e-003	0.3018	2.1100e-003	0.3039	0.0800	1.9500e-003	0.0820		260.1970	260.1970	6.1400e-003		260.3504
Total	0.1187	0.3390	0.8676	3.5500e-003	0.3274	2.4400e-003	0.3298	0.0874	2.2700e-003	0.0897		361.4091	361.4091	0.0122		361.7140

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	1.6269	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0217	0.0135	0.1569	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		50.0489	50.0489	1.2600e-003		50.0805
Total	0.0217	0.0135	0.1569	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		50.0489	50.0489	1.2600e-003		50.0805

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	1.6269	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0217	0.0135	0.1569	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		50.0489	50.0489	1.2600e-003		50.0805
Total	0.0217	0.0135	0.1569	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		50.0489	50.0489	1.2600e-003		50.0805

3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	1.6141	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.6 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		48.1846	48.1846	1.1400e-003		48.2130
Total	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		48.1846	48.1846	1.1400e-003		48.2130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4224					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	1.6141	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

5100 Long Beach Blvd - South Coast Air Basin, Winter

3.6 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		48.1846	48.1846	1.1400e-003		48.2130
Total	0.0205	0.0123	0.1446	4.8000e-004	0.0559	3.9000e-004	0.0563	0.0148	3.6000e-004	0.0152		48.1846	48.1846	1.1400e-003		48.2130

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

5100 Long Beach Blvd - South Coast Air Basin, 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	0.2407	1.2666	3.1140	0.0150	1.6030	9.3100e-003	1.6123	0.4287	8.6400e-003	0.4373		1,532.8715	1,532.8715	0.0623		1,534.4282
Unmitigated	0.2407	1.2666	3.1140	0.0150	1.6030	9.3100e-003	1.6123	0.4287	8.6400e-003	0.4373		1,532.8715	1,532.8715	0.0623		1,534.4282

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	220.78	215.46	183.92	733,848	733,848
Total	220.78	215.46	183.92	733,848	733,848

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

Historical Energy Use: N

5100 Long Beach Blvd - South Coast Air Basin, Winter

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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

5100 Long Beach Blvd - South Coast Air Basin, 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					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	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**

5100 Long Beach Blvd - South Coast Air Basin, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804
Unmitigated	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

5100 Long Beach Blvd - South Coast Air Basin, 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	0.1017					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0942	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6450	5.6450	5.4200e-003		5.7804
Total	1.3707	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

5100 Long Beach Blvd - South Coast Air Basin, 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1747					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0942	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6450	5.6450	5.4200e-003		5.7804
Total	1.2690	0.0361	3.1337	1.7000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	5.6450	5.6450	5.4200e-003	0.0000	5.7804

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

5100 Long Beach Blvd - South Coast Air Basin, Winter

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation

5100 Long Beach Blvd - South Coast Air Basin, Annual

5100 Long Beach Blvd
South Coast Air Basin, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	38.00	Dwelling Unit	1.80	59,330.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	353.87	CH4 Intensity (lb/MWhr)	0.015	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

5100 Long Beach Blvd - South Coast Air Basin, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - taken from project plan

Construction Phase - per client plans

Off-road Equipment -

Off-road Equipment - Per client info

Off-road Equipment - Per client provided info

Off-road Equipment - per client info

Off-road Equipment - per client provided info

Demolition -

Grading - Site is approximately 1.8 acres

Architectural Coating - architectural and area code compliance with Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Assume no fireplaces

Area Coating -

Energy Use - 7% reduction for 2019 building code; net zero energy buildings

Water And Wastewater - City uses sanitary sewer only. 20% reduction for 2016 CALGreen

Solid Waste - Updated to reflect 70% diversion rate in City

Construction Off-road Equipment Mitigation - compliance w rule 403- watering twice a day

Mobile Land Use Mitigation -

Area Mitigation - Zero VOC interior paint per GPR scorecard

Energy Mitigation - Per GPR Scorecard. Rooftop solar panels

Water Mitigation - Per GPR Scorecard

Fleet Mix -

Trips and VMT -

5100 Long Beach Blvd - South Coast Air Basin, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionPhase	NumDays	10.00	261.00
tblConstructionPhase	NumDays	200.00	365.00
tblConstructionPhase	NumDays	4.00	25.00
tblConstructionPhase	NumDays	10.00	222.00
tblConstructionPhase	NumDays	2.00	14.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	NT24NG	6,384.00	0.00
tblEnergyUse	T24E	243.83	226.76
tblEnergyUse	T24NG	10,792.56	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	32.30	0.00
tblFireplaces	NumberNoFireplace	3.80	38.00
tblFireplaces	NumberWood	1.90	0.00
tblGrading	AcresOfGrading	34.38	1.50
tblGrading	AcresOfGrading	14.00	1.00
tblGrading	MaterialImported	0.00	1,950.00
tblLandUse	LandUseSquareFeet	38,000.00	59,330.00
tblLandUse	LotAcreage	2.38	1.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

5100 Long Beach Blvd - South Coast Air Basin, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Paving
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	17.48	10.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	1,980,682.38
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

5100 Long Beach Blvd - South Coast Air Basin, Annual

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4886	3.1203	3.2166	6.4500e-003	0.1590	0.1426	0.3016	0.0686	0.1354	0.2040	0.0000	554.0023	554.0023	0.1171	0.0000	556.9289
2023	0.1680	0.6886	0.7960	1.5000e-003	0.0194	0.0303	0.0497	5.1800e-003	0.0294	0.0345	0.0000	126.1119	126.1119	0.0173	0.0000	126.5441
Maximum	0.4886	3.1203	3.2166	6.4500e-003	0.1590	0.1426	0.3016	0.0686	0.1354	0.2040	0.0000	554.0023	554.0023	0.1171	0.0000	556.9289

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					
2022	0.4886	3.1203	3.2166	6.4500e-003	0.1068	0.1426	0.2495	0.0403	0.1354	0.1757	0.0000	554.0017	554.0017	0.1171	0.0000	556.9283
2023	0.1680	0.6886	0.7960	1.5000e-003	0.0194	0.0303	0.0497	5.1800e-003	0.0294	0.0345	0.0000	126.1118	126.1118	0.0173	0.0000	126.5440
Maximum	0.4886	3.1203	3.2166	6.4500e-003	0.1068	0.1426	0.2495	0.0403	0.1354	0.1757	0.0000	554.0017	554.0017	0.1171	0.0000	556.9283

5100 Long Beach Blvd - South Coast Air Basin, 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
Percent Reduction	0.00	0.00	0.00	0.00	29.23	0.00	14.84	38.37	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-15-2022	4-14-2022	1.0497	1.0497
2	4-15-2022	7-14-2022	0.8969	0.8969
3	7-15-2022	10-14-2022	1.0093	1.0093
4	10-15-2022	1-14-2023	0.7515	0.7515
5	1-15-2023	4-14-2023	0.6418	0.6418
6	4-15-2023	7-14-2023	0.1211	0.1211
		Highest	1.0497	1.0497

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	0.2446	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	30.6369	30.6369	1.3000e-003	2.6000e-004	30.7468
Mobile	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Waste						0.0000	0.0000		0.0000	0.0000	2.1294	0.0000	2.1294	0.1258	0.0000	5.2754
Water						0.0000	0.0000		0.0000	0.0000	0.7008	6.9232	7.6240	2.7100e-003	1.5800e-003	8.1632
Total	0.2862	0.2324	0.9503	2.7000e-003	0.2786	3.8100e-003	0.2824	0.0746	3.7000e-003	0.0783	2.8302	287.6035	290.4337	0.1404	1.8400e-003	294.4923

5100 Long Beach Blvd - South Coast Air Basin, 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	0.2261	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554
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	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Waste						0.0000	0.0000		0.0000	0.0000	2.1294	0.0000	2.1294	0.1258	0.0000	5.2754
Water						0.0000	0.0000		0.0000	0.0000	0.5606	6.0952	6.6559	2.1900e-003	1.2700e-003	7.0893
Total	0.2677	0.2324	0.9503	2.7000e-003	0.2786	3.8100e-003	0.2824	0.0746	3.7000e-003	0.0783	2.6900	256.1387	258.8287	0.1386	1.2700e-003	262.6716

	ROG	NOx	CO	SO2	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	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.95	10.94	10.88	1.30	30.98	10.81

3.0 Construction Detail**Construction Phase**

5100 Long Beach Blvd - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/15/2022	1/31/2022	6	14	
2	Grading	Grading	2/1/2022	3/1/2022	6	25	
3	Paving	Paving	2/15/2022	10/31/2022	6	222	
4	Building Construction	Building Construction	3/2/2022	5/1/2023	6	365	
5	Architectural Coating	Architectural Coating	7/1/2022	5/1/2023	6	261	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 120,143; Residential Outdoor: 40,048; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

5100 Long Beach Blvd - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Air Compressors	1	8.00	78	0.48
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	1	8.00	367	0.48
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

5100 Long Beach Blvd - South Coast Air Basin, 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
Site Preparation	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	244.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	27.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0374	0.0000	0.0374	0.0203	0.0000	0.0203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1559	0.1027	2.4000e-004		6.5800e-003	6.5800e-003		6.0600e-003	6.0600e-003	0.0000	20.9639	20.9639	6.7800e-003	0.0000	21.1334
Total	0.0145	0.1559	0.1027	2.4000e-004	0.0374	6.5800e-003	0.0440	0.0203	6.0600e-003	0.0264	0.0000	20.9639	20.9639	6.7800e-003	0.0000	21.1334

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.2 Site Preparation - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	2.9300e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8394	0.8394	2.0000e-005	0.0000	0.8399
Total	3.6000e-004	2.5000e-004	2.9300e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8394	0.8394	2.0000e-005	0.0000	0.8399

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0168	0.0000	0.0168	9.1500e-003	0.0000	9.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1559	0.1027	2.4000e-004		6.5800e-003	6.5800e-003		6.0600e-003	6.0600e-003	0.0000	20.9638	20.9638	6.7800e-003	0.0000	21.1334
Total	0.0145	0.1559	0.1027	2.4000e-004	0.0168	6.5800e-003	0.0234	9.1500e-003	6.0600e-003	0.0152	0.0000	20.9638	20.9638	6.7800e-003	0.0000	21.1334

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.2 Site Preparation - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	2.9300e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8394	0.8394	2.0000e-005	0.0000	0.8399
Total	3.6000e-004	2.5000e-004	2.9300e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8394	0.8394	2.0000e-005	0.0000	0.8399

3.3 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0574	0.0000	0.0574	0.0311	0.0000	0.0311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3348	0.2206	5.2000e-004		0.0139	0.0139		0.0129	0.0129	0.0000	45.5456	45.5456	0.0136	0.0000	45.8864
Total	0.0317	0.3348	0.2206	5.2000e-004	0.0574	0.0139	0.0713	0.0311	0.0129	0.0440	0.0000	45.5456	45.5456	0.0136	0.0000	45.8864

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.3 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0302	7.1000e-003	9.0000e-005	2.1000e-003	9.0000e-005	2.1800e-003	5.8000e-004	8.0000e-005	6.6000e-004	0.0000	9.0461	9.0461	6.5000e-004	0.0000	9.0624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	1.7700e-003	0.0308	0.0144	1.1000e-004	4.5700e-003	1.1000e-004	4.6700e-003	1.2400e-003	1.0000e-004	1.3300e-003	0.0000	11.1215	11.1215	7.0000e-004	0.0000	11.1390

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0258	0.0000	0.0258	0.0140	0.0000	0.0140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3348	0.2206	5.2000e-004		0.0139	0.0139		0.0129	0.0129	0.0000	45.5455	45.5455	0.0136	0.0000	45.8863
Total	0.0317	0.3348	0.2206	5.2000e-004	0.0258	0.0139	0.0397	0.0140	0.0129	0.0269	0.0000	45.5455	45.5455	0.0136	0.0000	45.8863

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.3 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.9000e-004	0.0302	7.1000e-003	9.0000e-005	2.1000e-003	9.0000e-005	2.1800e-003	5.8000e-004	8.0000e-005	6.6000e-004	0.0000	9.0461	9.0461	6.5000e-004	0.0000	9.0624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	1.7700e-003	0.0308	0.0144	1.1000e-004	4.5700e-003	1.1000e-004	4.6700e-003	1.2400e-003	1.0000e-004	1.3300e-003	0.0000	11.1215	11.1215	7.0000e-004	0.0000	11.1390

3.4 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3781	158.3781	0.0512	0.0000	159.6587
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3781	158.3781	0.0512	0.0000	159.6587

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.4 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3300e-003	3.0900e-003	0.0358	1.1000e-004	0.0122	9.0000e-005	0.0123	3.2300e-003	8.0000e-005	3.3200e-003	0.0000	10.2385	10.2385	2.6000e-004	0.0000	10.2450
Total	4.3300e-003	3.0900e-003	0.0358	1.1000e-004	0.0122	9.0000e-005	0.0123	3.2300e-003	8.0000e-005	3.3200e-003	0.0000	10.2385	10.2385	2.6000e-004	0.0000	10.2450

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3779	158.3779	0.0512	0.0000	159.6585
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0747	0.7871	0.8910	1.8000e-003		0.0380	0.0380		0.0349	0.0349	0.0000	158.3779	158.3779	0.0512	0.0000	159.6585

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.4 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3300e-003	3.0900e-003	0.0358	1.1000e-004	0.0122	9.0000e-005	0.0123	3.2300e-003	8.0000e-005	3.3200e-003	0.0000	10.2385	10.2385	2.6000e-004	0.0000	10.2450
Total	4.3300e-003	3.0900e-003	0.0358	1.1000e-004	0.0122	9.0000e-005	0.0123	3.2300e-003	8.0000e-005	3.3200e-003	0.0000	10.2385	10.2385	2.6000e-004	0.0000	10.2450

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8658	237.8658	0.0414	0.0000	238.9015
Total	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8658	237.8658	0.0414	0.0000	238.9015

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0484	0.0122	1.3000e-004	3.3000e-003	9.0000e-005	3.3900e-003	9.5000e-004	9.0000e-005	1.0400e-003	0.0000	12.6107	12.6107	7.9000e-004	0.0000	12.6305
Worker	0.0138	9.8600e-003	0.1140	3.6000e-004	0.0388	2.8000e-004	0.0391	0.0103	2.6000e-004	0.0106	0.0000	32.6248	32.6248	8.2000e-004	0.0000	32.6454
Total	0.0152	0.0582	0.1262	4.9000e-004	0.0421	3.7000e-004	0.0425	0.0113	3.5000e-004	0.0116	0.0000	45.2355	45.2355	1.6100e-003	0.0000	45.2758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8655	237.8655	0.0414	0.0000	238.9012
Total	0.2160	1.6379	1.6672	2.8900e-003		0.0771	0.0771		0.0745	0.0745	0.0000	237.8655	237.8655	0.0414	0.0000	238.9012

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0484	0.0122	1.3000e-004	3.3000e-003	9.0000e-005	3.3900e-003	9.5000e-004	9.0000e-005	1.0400e-003	0.0000	12.6107	12.6107	7.9000e-004	0.0000	12.6305
Worker	0.0138	9.8600e-003	0.1140	3.6000e-004	0.0388	2.8000e-004	0.0391	0.0103	2.6000e-004	0.0106	0.0000	32.6248	32.6248	8.2000e-004	0.0000	32.6454
Total	0.0152	0.0582	0.1262	4.9000e-004	0.0421	3.7000e-004	0.0425	0.0113	3.5000e-004	0.0116	0.0000	45.2355	45.2355	1.6100e-003	0.0000	45.2758

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5236	93.5236	0.0159	0.0000	93.9206
Total	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5236	93.5236	0.0159	0.0000	93.9206

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0143	4.3000e-003	5.0000e-005	1.3000e-003	2.0000e-005	1.3100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	4.8046	4.8046	2.7000e-004	0.0000	4.8114
Worker	5.1100e-003	3.5100e-003	0.0413	1.4000e-004	0.0153	1.1000e-004	0.0154	4.0500e-003	1.0000e-004	4.1500e-003	0.0000	12.3479	12.3479	2.9000e-004	0.0000	12.3552
Total	5.5200e-003	0.0178	0.0456	1.9000e-004	0.0166	1.3000e-004	0.0167	4.4200e-003	1.2000e-004	4.5400e-003	0.0000	17.1525	17.1525	5.6000e-004	0.0000	17.1666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5234	93.5234	0.0159	0.0000	93.9205
Total	0.0785	0.6031	0.6495	1.1400e-003		0.0265	0.0265		0.0256	0.0256	0.0000	93.5234	93.5234	0.0159	0.0000	93.9205

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0143	4.3000e-003	5.0000e-005	1.3000e-003	2.0000e-005	1.3100e-003	3.7000e-004	2.0000e-005	3.9000e-004	0.0000	4.8046	4.8046	2.7000e-004	0.0000	4.8114
Worker	5.1100e-003	3.5100e-003	0.0413	1.4000e-004	0.0153	1.1000e-004	0.0154	4.0500e-003	1.0000e-004	4.1500e-003	0.0000	12.3479	12.3479	2.9000e-004	0.0000	12.3552
Total	5.5200e-003	0.0178	0.0456	1.9000e-004	0.0166	1.3000e-004	0.0167	4.4200e-003	1.2000e-004	4.5400e-003	0.0000	17.1525	17.1525	5.6000e-004	0.0000	17.1666

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035
Total	0.1285	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457
Total	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035
Total	0.1285	0.1113	0.1433	2.3000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	20.1707	20.1707	1.3100e-003	0.0000	20.2035

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457
Total	1.5400e-003	1.1000e-003	0.0127	4.0000e-005	4.3300e-003	3.0000e-005	4.3700e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6434	3.6434	9.0000e-005	0.0000	3.6457

3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1493	13.1493	7.9000e-004	0.0000	13.1689
Total	0.0831	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1493	13.1493	7.9000e-004	0.0000	13.1689

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880
Total	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0733					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1492	13.1492	7.9000e-004	0.0000	13.1689
Total	0.0831	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1492	13.1492	7.9000e-004	0.0000	13.1689

5100 Long Beach Blvd - South Coast Air Basin, Annual

3.6 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880
Total	9.5000e-004	6.5000e-004	7.6500e-003	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.2867	2.2867	5.0000e-005	0.0000	2.2880

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

5100 Long Beach Blvd - South Coast Air Basin, 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	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515
Unmitigated	0.0416	0.2278	0.5595	2.6800e-003	0.2786	1.6400e-003	0.2803	0.0746	1.5300e-003	0.0762	0.0000	249.4033	249.4033	9.9300e-003	0.0000	249.6515

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	220.78	215.46	183.92	733,848	733,848
Total	220.78	215.46	183.92	733,848	733,848

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.554588	0.041680	0.206638	0.111313	0.012826	0.005773	0.022313	0.034878	0.002168	0.001490	0.004854	0.000717	0.000760

5.0 Energy Detail

 Historical Energy Use: N

5100 Long Beach Blvd - South Coast Air Basin, Annual

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

[illegible]

5100 Long Beach Blvd - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

5100 Long Beach Blvd - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	190869	30.6369	1.3000e-003	2.6000e-004	30.7468
Total		30.6369	1.3000e-003	2.6000e-004	30.7468

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	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**

5100 Long Beach Blvd - South Coast Air Basin, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2261	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554
Unmitigated	0.2446	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554

5100 Long Beach Blvd - South Coast Air Basin, Annual

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	0.0186					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554
Total	0.2446	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554

5100 Long Beach Blvd - South Coast Air Basin, 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
Consumer Products	0.2144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0117	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554
Total	0.2261	4.5100e-003	0.3909	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6401	0.6401	6.1000e-004	0.0000	0.6554

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

5100 Long Beach Blvd - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.6559	2.1900e-003	1.2700e-003	7.0893
Unmitigated	7.6240	2.7100e-003	1.5800e-003	8.1632

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.98068 / 1.56086	7.6240	2.7100e-003	1.5800e-003	8.1632
Total		7.6240	2.7100e-003	1.5800e-003	8.1632

5100 Long Beach Blvd - South Coast Air Basin, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.58455 / 1.56086	6.6559	2.1900e-003	1.2700e-003	7.0893
Total		6.6559	2.1900e-003	1.2700e-003	7.0893

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.1294	0.1258	0.0000	5.2754
Unmitigated	2.1294	0.1258	0.0000	5.2754

5100 Long Beach Blvd - South Coast Air Basin, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	10.49	2.1294	0.1258	0.0000	5.2754
Total		2.1294	0.1258	0.0000	5.2754

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	10.49	2.1294	0.1258	0.0000	5.2754
Total		2.1294	0.1258	0.0000	5.2754

9.0 Operational Offroad

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

5100 Long Beach Blvd - South Coast Air Basin, Annual

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
----------------	--------

11.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

5100 Long Beach Blvd.

From CalEEMod v.2016.3.2 Vehicle Fleet Mix Output:

Annual VMT: 733,848

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	0.55	0.04	0.0221345	0.04	0.022135
Light Truck < 3750 lbs	0.04	0.05	0.002127	0.06	0.002552
Light Truck 3751-5750 lbs	0.20	0.05	0.0101846	0.06	0.012222
Med Truck 5751-8500 lbs	0.12	0.12	0.0138728	0.2	0.023121
Lite-Heavy Truck 8501-10,000 lbs	0.01	0.12	0.0017527	0.2	0.002921
Lite-Heavy Truck 10,001-14,000 lbs	0.01	0.09	0.0005247	0.125	0.000729
Med-Heavy Truck 14,001-33,000 lbs	0.02	0.06	0.001308	0.05	0.00109
Heavy-Heavy Truck 33,001-60,000 lbs	0.03	0.06	0.0019394	0.05	0.001616
Other Bus	0.00	0.06	0.0001272	0.05	0.000106
Urban Bus	0.00	0.06	0.0001035	0.05	8.63E-05
Motorcycle	0.00	0.09	0.0004353	0.01	4.84E-05
School Bus	0.00	0.06	4.266E-05	0.05	3.56E-05
Motor Home	0.00	0.09	7.614E-05	0.125	0.000106
Total	100.0%		0.0546286		0.066768

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
N2O 310 GWP
1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

	Total Emissions	Total CO2e units
N2O Emissions:	0.0490 metric tons N2O	15.19 metric tons CO2e
Project Total:		15.19 metric tons CO2e

References

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
Assume Model year 2000-present, gasoline fueled.

** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

*** CalEEMod v.2016.3.2 results for mobile sources.

Appendix B

Noise Measurement and Analyses Data

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 78.5 - 2018/08/29 17:14:29
Level Range : 40-100
SEL : 89.5
Leq : 61.8

No.s	Date Time	(dB)
1	2018/08/29 17:11:42	53.5
2	2018/08/29 17:11:43	55.8
3	2018/08/29 17:11:44	58.0
4	2018/08/29 17:11:45	62.6
5	2018/08/29 17:11:46	63.1
6	2018/08/29 17:11:47	60.4
7	2018/08/29 17:11:48	55.7
8	2018/08/29 17:11:49	54.6
9	2018/08/29 17:11:50	53.8
10	2018/08/29 17:11:51	53.5
11	2018/08/29 17:11:52	52.9
12	2018/08/29 17:11:53	54.7
13	2018/08/29 17:11:54	54.1
14	2018/08/29 17:11:55	53.0
15	2018/08/29 17:11:56	53.8
16	2018/08/29 17:11:57	53.1
17	2018/08/29 17:11:58	53.7
18	2018/08/29 17:11:59	54.0
19	2018/08/29 17:12:00	53.5
20	2018/08/29 17:12:01	53.7
21	2018/08/29 17:12:02	54.1
22	2018/08/29 17:12:03	54.3
23	2018/08/29 17:12:04	54.2
24	2018/08/29 17:12:05	54.1
25	2018/08/29 17:12:06	53.7
26	2018/08/29 17:12:07	53.9
27	2018/08/29 17:12:08	54.1
28	2018/08/29 17:12:09	53.4
29	2018/08/29 17:12:10	52.9
30	2018/08/29 17:12:11	53.4
31	2018/08/29 17:12:12	52.6
32	2018/08/29 17:12:13	52.4
33	2018/08/29 17:12:14	52.8
34	2018/08/29 17:12:15	52.0
35	2018/08/29 17:12:16	52.5
36	2018/08/29 17:12:17	53.1
37	2018/08/29 17:12:18	53.6
38	2018/08/29 17:12:19	53.5
39	2018/08/29 17:12:20	52.9
40	2018/08/29 17:12:21	52.6
41	2018/08/29 17:12:22	53.3
42	2018/08/29 17:12:23	52.9
43	2018/08/29 17:12:24	53.2
44	2018/08/29 17:12:25	53.3
45	2018/08/29 17:12:26	53.7
46	2018/08/29 17:12:27	52.8
47	2018/08/29 17:12:28	52.6
48	2018/08/29 17:12:29	52.1
49	2018/08/29 17:12:30	51.8
50	2018/08/29 17:12:31	52.2
51	2018/08/29 17:12:32	52.0
52	2018/08/29 17:12:33	52.3
53	2018/08/29 17:12:34	54.4
54	2018/08/29 17:12:35	54.9
55	2018/08/29 17:12:36	54.4
56	2018/08/29 17:12:37	54.2
57	2018/08/29 17:12:38	54.2
58	2018/08/29 17:12:39	54.2
59	2018/08/29 17:12:40	55.0
60	2018/08/29 17:12:41	54.3
61	2018/08/29 17:12:42	54.0
62	2018/08/29 17:12:43	54.0
63	2018/08/29 17:12:44	53.5
64	2018/08/29 17:12:45	54.7
65	2018/08/29 17:12:46	53.3
66	2018/08/29 17:12:47	53.9
67	2018/08/29 17:12:48	54.2
68	2018/08/29 17:12:49	55.8
69	2018/08/29 17:12:50	54.1
70	2018/08/29 17:12:51	52.6
71	2018/08/29 17:12:52	53.2
72	2018/08/29 17:12:53	53.2
73	2018/08/29 17:12:54	52.9
74	2018/08/29 17:12:55	52.4
75	2018/08/29 17:12:56	52.3
76	2018/08/29 17:12:57	52.3
77	2018/08/29 17:12:58	52.6
78	2018/08/29 17:12:59	52.1
79	2018/08/29 17:13:00	51.7
80	2018/08/29 17:13:01	52.0
81	2018/08/29 17:13:02	50.9
82	2018/08/29 17:13:03	50.6
83	2018/08/29 17:13:04	53.0
84	2018/08/29 17:13:05	50.8
85	2018/08/29 17:13:06	51.5

86	2018/08/29	17:13:07	51.3
87	2018/08/29	17:13:08	52.2
88	2018/08/29	17:13:09	52.0
89	2018/08/29	17:13:10	54.2
90	2018/08/29	17:13:11	53.2
91	2018/08/29	17:13:12	53.0
92	2018/08/29	17:13:13	53.5
93	2018/08/29	17:13:14	53.1
94	2018/08/29	17:13:15	53.5
95	2018/08/29	17:13:16	52.8
96	2018/08/29	17:13:17	53.5
97	2018/08/29	17:13:18	54.3
98	2018/08/29	17:13:19	53.6
99	2018/08/29	17:13:20	54.7
100	2018/08/29	17:13:21	53.5
101	2018/08/29	17:13:22	54.2
102	2018/08/29	17:13:23	55.3
103	2018/08/29	17:13:24	54.9
104	2018/08/29	17:13:25	54.7
105	2018/08/29	17:13:26	55.4
106	2018/08/29	17:13:27	55.3
107	2018/08/29	17:13:28	53.7
108	2018/08/29	17:13:29	53.2
109	2018/08/29	17:13:30	53.8
110	2018/08/29	17:13:31	53.1
111	2018/08/29	17:13:32	53.9
112	2018/08/29	17:13:33	53.0
113	2018/08/29	17:13:34	52.2
114	2018/08/29	17:13:35	51.6
115	2018/08/29	17:13:36	51.4
116	2018/08/29	17:13:37	51.2
117	2018/08/29	17:13:38	51.0
118	2018/08/29	17:13:39	51.7
119	2018/08/29	17:13:40	50.8
120	2018/08/29	17:13:41	51.1
121	2018/08/29	17:13:42	52.4
122	2018/08/29	17:13:43	52.1
123	2018/08/29	17:13:44	52.2
124	2018/08/29	17:13:45	51.8
125	2018/08/29	17:13:46	51.3
126	2018/08/29	17:13:47	52.1
127	2018/08/29	17:13:48	52.7
128	2018/08/29	17:13:49	51.9
129	2018/08/29	17:13:50	51.0
130	2018/08/29	17:13:51	50.9
131	2018/08/29	17:13:52	51.9
132	2018/08/29	17:13:53	53.4
133	2018/08/29	17:13:54	50.5
134	2018/08/29	17:13:55	52.1
135	2018/08/29	17:13:56	52.9
136	2018/08/29	17:13:57	54.1
137	2018/08/29	17:13:58	51.8
138	2018/08/29	17:13:59	53.3
139	2018/08/29	17:14:00	54.5
140	2018/08/29	17:14:01	59.3
141	2018/08/29	17:14:02	63.3
142	2018/08/29	17:14:03	62.0
143	2018/08/29	17:14:04	58.1
144	2018/08/29	17:14:05	54.1
145	2018/08/29	17:14:06	53.5
146	2018/08/29	17:14:07	53.0
147	2018/08/29	17:14:08	53.9
148	2018/08/29	17:14:09	54.4
149	2018/08/29	17:14:10	53.9
150	2018/08/29	17:14:11	53.9
151	2018/08/29	17:14:12	53.5
152	2018/08/29	17:14:13	53.2
153	2018/08/29	17:14:14	54.7
154	2018/08/29	17:14:15	54.8
155	2018/08/29	17:14:16	54.7
156	2018/08/29	17:14:17	58.7
157	2018/08/29	17:14:18	61.8
158	2018/08/29	17:14:19	58.2
159	2018/08/29	17:14:20	62.6
160	2018/08/29	17:14:21	71.4
161	2018/08/29	17:14:22	69.4
162	2018/08/29	17:14:23	70.5
163	2018/08/29	17:14:24	69.4
164	2018/08/29	17:14:25	71.5
165	2018/08/29	17:14:26	70.7
166	2018/08/29	17:14:27	71.0
167	2018/08/29	17:14:28	72.8
168	2018/08/29	17:14:29	75.6
169	2018/08/29	17:14:30	74.7
170	2018/08/29	17:14:31	72.3
171	2018/08/29	17:14:32	71.6
172	2018/08/29	17:14:33	74.4
173	2018/08/29	17:14:34	74.9
174	2018/08/29	17:14:35	73.7
175	2018/08/29	17:14:36	70.7
176	2018/08/29	17:14:37	71.8
177	2018/08/29	17:14:38	70.6
178	2018/08/29	17:14:39	71.9
179	2018/08/29	17:14:40	68.7
180	2018/08/29	17:14:41	66.5
181	2018/08/29	17:14:42	65.1
182	2018/08/29	17:14:43	62.2
183	2018/08/29	17:14:44	60.1
184	2018/08/29	17:14:45	58.1

185	2018/08/29	17:14:46	60.7
186	2018/08/29	17:14:47	59.1
187	2018/08/29	17:14:48	59.9
188	2018/08/29	17:14:49	58.9
189	2018/08/29	17:14:50	59.2
190	2018/08/29	17:14:51	56.2
191	2018/08/29	17:14:52	56.1
192	2018/08/29	17:14:53	60.1
193	2018/08/29	17:14:54	62.7
194	2018/08/29	17:14:55	62.8
195	2018/08/29	17:14:56	60.4
196	2018/08/29	17:14:57	59.4
197	2018/08/29	17:14:58	55.2
198	2018/08/29	17:14:59	55.7
199	2018/08/29	17:15:00	55.3
200	2018/08/29	17:15:01	51.1
201	2018/08/29	17:15:02	51.9
202	2018/08/29	17:15:03	51.4
203	2018/08/29	17:15:04	56.7
204	2018/08/29	17:15:05	56.7
205	2018/08/29	17:15:06	56.0
206	2018/08/29	17:15:07	53.6
207	2018/08/29	17:15:08	53.1
208	2018/08/29	17:15:09	52.5
209	2018/08/29	17:15:10	50.8
210	2018/08/29	17:15:11	51.6
211	2018/08/29	17:15:12	51.3
212	2018/08/29	17:15:13	51.5
213	2018/08/29	17:15:14	56.7
214	2018/08/29	17:15:15	54.2
215	2018/08/29	17:15:16	54.9
216	2018/08/29	17:15:17	55.4
217	2018/08/29	17:15:18	55.3
218	2018/08/29	17:15:19	54.8
219	2018/08/29	17:15:20	53.6
220	2018/08/29	17:15:21	53.8
221	2018/08/29	17:15:22	53.5
222	2018/08/29	17:15:23	54.0
223	2018/08/29	17:15:24	53.4
224	2018/08/29	17:15:25	54.7
225	2018/08/29	17:15:26	57.7
226	2018/08/29	17:15:27	57.9
227	2018/08/29	17:15:28	60.8
228	2018/08/29	17:15:29	67.5
229	2018/08/29	17:15:30	68.2
230	2018/08/29	17:15:31	60.7
231	2018/08/29	17:15:32	57.7
232	2018/08/29	17:15:33	56.6
233	2018/08/29	17:15:34	58.1
234	2018/08/29	17:15:35	62.1
235	2018/08/29	17:15:36	67.0
236	2018/08/29	17:15:37	64.0
237	2018/08/29	17:15:38	57.5
238	2018/08/29	17:15:39	55.9
239	2018/08/29	17:15:40	56.9
240	2018/08/29	17:15:41	56.8
241	2018/08/29	17:15:42	57.1
242	2018/08/29	17:15:43	58.1
243	2018/08/29	17:15:44	61.3
244	2018/08/29	17:15:45	66.2
245	2018/08/29	17:15:46	66.2
246	2018/08/29	17:15:47	59.1
247	2018/08/29	17:15:48	55.7
248	2018/08/29	17:15:49	54.1
249	2018/08/29	17:15:50	54.6
250	2018/08/29	17:15:51	54.8
251	2018/08/29	17:15:52	57.2
252	2018/08/29	17:15:53	57.2
253	2018/08/29	17:15:54	56.8
254	2018/08/29	17:15:55	58.3
255	2018/08/29	17:15:56	55.6
256	2018/08/29	17:15:57	55.2
257	2018/08/29	17:15:58	53.0
258	2018/08/29	17:15:59	52.3
259	2018/08/29	17:16:00	51.6
260	2018/08/29	17:16:01	50.8
261	2018/08/29	17:16:02	51.1
262	2018/08/29	17:16:03	51.5
263	2018/08/29	17:16:04	51.5
264	2018/08/29	17:16:05	52.9
265	2018/08/29	17:16:06	51.4
266	2018/08/29	17:16:07	52.3
267	2018/08/29	17:16:08	53.4
268	2018/08/29	17:16:09	55.0
269	2018/08/29	17:16:10	53.8
270	2018/08/29	17:16:11	52.9
271	2018/08/29	17:16:12	53.2
272	2018/08/29	17:16:13	54.1
273	2018/08/29	17:16:14	54.5
274	2018/08/29	17:16:15	53.4
275	2018/08/29	17:16:16	53.1
276	2018/08/29	17:16:17	53.1
277	2018/08/29	17:16:18	53.6
278	2018/08/29	17:16:19	54.2
279	2018/08/29	17:16:20	53.6
280	2018/08/29	17:16:21	53.8
281	2018/08/29	17:16:22	54.0
282	2018/08/29	17:16:23	53.6
283	2018/08/29	17:16:24	54.8

284	2018/08/29	17:16:25	54.6
285	2018/08/29	17:16:26	54.0
286	2018/08/29	17:16:27	54.8
287	2018/08/29	17:16:28	54.9
288	2018/08/29	17:16:29	54.2
289	2018/08/29	17:16:30	53.5
290	2018/08/29	17:16:31	52.8
291	2018/08/29	17:16:32	53.1
292	2018/08/29	17:16:33	53.0
293	2018/08/29	17:16:34	51.5
294	2018/08/29	17:16:35	52.7
295	2018/08/29	17:16:36	51.5
296	2018/08/29	17:16:37	51.5
297	2018/08/29	17:16:38	51.8
298	2018/08/29	17:16:39	51.6
299	2018/08/29	17:16:40	51.7
300	2018/08/29	17:16:41	51.9
301	2018/08/29	17:16:42	52.0
302	2018/08/29	17:16:43	52.8
303	2018/08/29	17:16:44	51.1
304	2018/08/29	17:16:45	50.9
305	2018/08/29	17:16:46	51.3
306	2018/08/29	17:16:47	51.2
307	2018/08/29	17:16:48	52.5
308	2018/08/29	17:16:49	50.5
309	2018/08/29	17:16:50	50.5
310	2018/08/29	17:16:51	50.7
311	2018/08/29	17:16:52	51.1
312	2018/08/29	17:16:53	50.6
313	2018/08/29	17:16:54	50.1
314	2018/08/29	17:16:55	50.4
315	2018/08/29	17:16:56	50.9
316	2018/08/29	17:16:57	50.7
317	2018/08/29	17:16:58	50.7
318	2018/08/29	17:16:59	50.7
319	2018/08/29	17:17:00	50.6
320	2018/08/29	17:17:01	50.6
321	2018/08/29	17:17:02	50.6
322	2018/08/29	17:17:03	51.4
323	2018/08/29	17:17:04	51.9
324	2018/08/29	17:17:05	53.3
325	2018/08/29	17:17:06	55.4
326	2018/08/29	17:17:07	58.6
327	2018/08/29	17:17:08	59.0
328	2018/08/29	17:17:09	56.1
329	2018/08/29	17:17:10	53.3
330	2018/08/29	17:17:11	51.4
331	2018/08/29	17:17:12	51.5
332	2018/08/29	17:17:13	51.1
333	2018/08/29	17:17:14	51.3
334	2018/08/29	17:17:15	51.5
335	2018/08/29	17:17:16	52.2
336	2018/08/29	17:17:17	51.6
337	2018/08/29	17:17:18	51.4
338	2018/08/29	17:17:19	52.1
339	2018/08/29	17:17:20	52.3
340	2018/08/29	17:17:21	52.4
341	2018/08/29	17:17:22	52.4
342	2018/08/29	17:17:23	53.5
343	2018/08/29	17:17:24	54.7
344	2018/08/29	17:17:25	54.8
345	2018/08/29	17:17:26	55.0
346	2018/08/29	17:17:27	55.0
347	2018/08/29	17:17:28	55.3
348	2018/08/29	17:17:29	54.5
349	2018/08/29	17:17:30	55.2
350	2018/08/29	17:17:31	55.6
351	2018/08/29	17:17:32	55.8
352	2018/08/29	17:17:33	54.8
353	2018/08/29	17:17:34	54.9
354	2018/08/29	17:17:35	55.3
355	2018/08/29	17:17:36	54.6
356	2018/08/29	17:17:37	54.5
357	2018/08/29	17:17:38	55.3
358	2018/08/29	17:17:39	56.6
359	2018/08/29	17:17:40	56.0
360	2018/08/29	17:17:41	55.3
361	2018/08/29	17:17:42	55.2
362	2018/08/29	17:17:43	55.3
363	2018/08/29	17:17:44	54.2
364	2018/08/29	17:17:45	54.0
365	2018/08/29	17:17:46	53.7
366	2018/08/29	17:17:47	55.2
367	2018/08/29	17:17:48	56.3
368	2018/08/29	17:17:49	53.8
369	2018/08/29	17:17:50	54.4
370	2018/08/29	17:17:51	54.3
371	2018/08/29	17:17:52	55.0
372	2018/08/29	17:17:53	56.0
373	2018/08/29	17:17:54	53.9
374	2018/08/29	17:17:55	54.7
375	2018/08/29	17:17:56	54.2
376	2018/08/29	17:17:57	55.0
377	2018/08/29	17:17:58	55.6
378	2018/08/29	17:17:59	61.4
379	2018/08/29	17:18:00	67.2
380	2018/08/29	17:18:01	65.1
381	2018/08/29	17:18:02	59.0
382	2018/08/29	17:18:03	53.9

383	2018/08/29	17:18:04	52.4
384	2018/08/29	17:18:05	53.5
385	2018/08/29	17:18:06	57.2
386	2018/08/29	17:18:07	60.6
387	2018/08/29	17:18:08	56.2
388	2018/08/29	17:18:09	60.2
389	2018/08/29	17:18:10	66.6
390	2018/08/29	17:18:11	69.8
391	2018/08/29	17:18:12	62.8
392	2018/08/29	17:18:13	54.9
393	2018/08/29	17:18:14	53.1
394	2018/08/29	17:18:15	54.7
395	2018/08/29	17:18:16	52.4
396	2018/08/29	17:18:17	54.0
397	2018/08/29	17:18:18	58.9
398	2018/08/29	17:18:19	58.4
399	2018/08/29	17:18:20	58.6
400	2018/08/29	17:18:21	60.7
401	2018/08/29	17:18:22	53.6
402	2018/08/29	17:18:23	53.3
403	2018/08/29	17:18:24	52.7
404	2018/08/29	17:18:25	52.5
405	2018/08/29	17:18:26	51.3
406	2018/08/29	17:18:27	51.0
407	2018/08/29	17:18:28	51.3
408	2018/08/29	17:18:29	51.5
409	2018/08/29	17:18:30	51.3
410	2018/08/29	17:18:31	52.4
411	2018/08/29	17:18:32	53.8
412	2018/08/29	17:18:33	51.9
413	2018/08/29	17:18:34	52.4
414	2018/08/29	17:18:35	55.3
415	2018/08/29	17:18:36	59.4
416	2018/08/29	17:18:37	53.8
417	2018/08/29	17:18:38	54.3
418	2018/08/29	17:18:39	52.7
419	2018/08/29	17:18:40	52.0
420	2018/08/29	17:18:41	51.9
421	2018/08/29	17:18:42	52.0
422	2018/08/29	17:18:43	54.3
423	2018/08/29	17:18:44	52.6
424	2018/08/29	17:18:45	52.9
425	2018/08/29	17:18:46	51.7
426	2018/08/29	17:18:47	52.1
427	2018/08/29	17:18:48	51.8
428	2018/08/29	17:18:49	52.1
429	2018/08/29	17:18:50	51.8
430	2018/08/29	17:18:51	51.8
431	2018/08/29	17:18:52	52.0
432	2018/08/29	17:18:53	51.7
433	2018/08/29	17:18:54	53.1
434	2018/08/29	17:18:55	55.1
435	2018/08/29	17:18:56	54.7
436	2018/08/29	17:18:57	54.4
437	2018/08/29	17:18:58	53.2
438	2018/08/29	17:18:59	55.7
439	2018/08/29	17:19:00	62.8
440	2018/08/29	17:19:01	53.3
441	2018/08/29	17:19:02	54.4
442	2018/08/29	17:19:03	53.4
443	2018/08/29	17:19:04	52.6
444	2018/08/29	17:19:05	52.6
445	2018/08/29	17:19:06	52.5
446	2018/08/29	17:19:07	52.3
447	2018/08/29	17:19:08	51.9
448	2018/08/29	17:19:09	51.8
449	2018/08/29	17:19:10	51.6
450	2018/08/29	17:19:11	50.5
451	2018/08/29	17:19:12	50.6
452	2018/08/29	17:19:13	51.1
453	2018/08/29	17:19:14	51.2
454	2018/08/29	17:19:15	51.2
455	2018/08/29	17:19:16	51.1
456	2018/08/29	17:19:17	50.4
457	2018/08/29	17:19:18	50.9
458	2018/08/29	17:19:19	51.0
459	2018/08/29	17:19:20	51.1
460	2018/08/29	17:19:21	50.6
461	2018/08/29	17:19:22	56.0
462	2018/08/29	17:19:23	51.8
463	2018/08/29	17:19:24	58.0
464	2018/08/29	17:19:25	51.9
465	2018/08/29	17:19:26	51.4
466	2018/08/29	17:19:27	52.1
467	2018/08/29	17:19:28	52.2
468	2018/08/29	17:19:29	52.2
469	2018/08/29	17:19:30	52.2
470	2018/08/29	17:19:31	51.9
471	2018/08/29	17:19:32	51.9
472	2018/08/29	17:19:33	52.9
473	2018/08/29	17:19:34	52.2
474	2018/08/29	17:19:35	52.9
475	2018/08/29	17:19:36	52.8
476	2018/08/29	17:19:37	53.3
477	2018/08/29	17:19:38	53.2
478	2018/08/29	17:19:39	53.3
479	2018/08/29	17:19:40	52.5
480	2018/08/29	17:19:41	51.6
481	2018/08/29	17:19:42	51.6

482	2018/08/29	17:19:43	52.2
483	2018/08/29	17:19:44	54.2
484	2018/08/29	17:19:45	52.2
485	2018/08/29	17:19:46	52.3
486	2018/08/29	17:19:47	51.6
487	2018/08/29	17:19:48	51.0
488	2018/08/29	17:19:49	50.8
489	2018/08/29	17:19:50	50.5
490	2018/08/29	17:19:51	51.1
491	2018/08/29	17:19:52	50.8
492	2018/08/29	17:19:53	51.5
493	2018/08/29	17:19:54	52.5
494	2018/08/29	17:19:55	56.2
495	2018/08/29	17:19:56	59.7
496	2018/08/29	17:19:57	57.1
497	2018/08/29	17:19:58	53.0
498	2018/08/29	17:19:59	52.7
499	2018/08/29	17:20:00	52.2
500	2018/08/29	17:20:01	53.1
501	2018/08/29	17:20:02	52.1
502	2018/08/29	17:20:03	53.7
503	2018/08/29	17:20:04	54.5
504	2018/08/29	17:20:05	61.8
505	2018/08/29	17:20:06	60.9
506	2018/08/29	17:20:07	55.8
507	2018/08/29	17:20:08	54.2
508	2018/08/29	17:20:09	53.1
509	2018/08/29	17:20:10	52.7
510	2018/08/29	17:20:11	52.9
511	2018/08/29	17:20:12	53.3
512	2018/08/29	17:20:13	53.5
513	2018/08/29	17:20:14	53.4
514	2018/08/29	17:20:15	53.7
515	2018/08/29	17:20:16	54.6
516	2018/08/29	17:20:17	55.7
517	2018/08/29	17:20:18	56.2
518	2018/08/29	17:20:19	57.8
519	2018/08/29	17:20:20	61.0
520	2018/08/29	17:20:21	65.9
521	2018/08/29	17:20:22	62.2
522	2018/08/29	17:20:23	65.6
523	2018/08/29	17:20:24	67.2
524	2018/08/29	17:20:25	69.6
525	2018/08/29	17:20:26	69.9
526	2018/08/29	17:20:27	71.1
527	2018/08/29	17:20:28	70.2
528	2018/08/29	17:20:29	75.1
529	2018/08/29	17:20:30	72.6
530	2018/08/29	17:20:31	73.9
531	2018/08/29	17:20:32	71.4
532	2018/08/29	17:20:33	76.5
533	2018/08/29	17:20:34	72.8
534	2018/08/29	17:20:35	70.7
535	2018/08/29	17:20:36	71.5
536	2018/08/29	17:20:37	71.9
537	2018/08/29	17:20:38	71.9
538	2018/08/29	17:20:39	71.2
539	2018/08/29	17:20:40	68.9
540	2018/08/29	17:20:41	67.3
541	2018/08/29	17:20:42	64.8
542	2018/08/29	17:20:43	64.5
543	2018/08/29	17:20:44	64.5
544	2018/08/29	17:20:45	62.8
545	2018/08/29	17:20:46	62.4
546	2018/08/29	17:20:47	61.8
547	2018/08/29	17:20:48	60.7
548	2018/08/29	17:20:49	61.4
549	2018/08/29	17:20:50	59.0
550	2018/08/29	17:20:51	58.6
551	2018/08/29	17:20:52	58.5
552	2018/08/29	17:20:53	58.9
553	2018/08/29	17:20:54	58.5
554	2018/08/29	17:20:55	57.2
555	2018/08/29	17:20:56	55.1
556	2018/08/29	17:20:57	56.4
557	2018/08/29	17:20:58	54.7
558	2018/08/29	17:20:59	56.9
559	2018/08/29	17:21:00	56.8
560	2018/08/29	17:21:01	56.5
561	2018/08/29	17:21:02	54.1
562	2018/08/29	17:21:03	57.0
563	2018/08/29	17:21:04	54.3
564	2018/08/29	17:21:05	54.4
565	2018/08/29	17:21:06	61.1
566	2018/08/29	17:21:07	56.0
567	2018/08/29	17:21:08	53.3
568	2018/08/29	17:21:09	53.0
569	2018/08/29	17:21:10	52.6
570	2018/08/29	17:21:11	52.3
571	2018/08/29	17:21:12	52.5
572	2018/08/29	17:21:13	52.9
573	2018/08/29	17:21:14	53.6
574	2018/08/29	17:21:15	53.2
575	2018/08/29	17:21:16	54.3
576	2018/08/29	17:21:17	55.5
577	2018/08/29	17:21:18	58.1
578	2018/08/29	17:21:19	61.8
579	2018/08/29	17:21:20	61.1
580	2018/08/29	17:21:21	58.5

581	2018/08/29	17:21:22	60.0
582	2018/08/29	17:21:23	62.3
583	2018/08/29	17:21:24	59.8
584	2018/08/29	17:21:25	63.0
585	2018/08/29	17:21:26	62.0
586	2018/08/29	17:21:27	58.4
587	2018/08/29	17:21:28	58.4
588	2018/08/29	17:21:29	55.0
589	2018/08/29	17:21:30	52.3
590	2018/08/29	17:21:31	51.7
591	2018/08/29	17:21:32	51.4
592	2018/08/29	17:21:33	50.7
593	2018/08/29	17:21:34	50.8
594	2018/08/29	17:21:35	50.3
595	2018/08/29	17:21:36	51.2
596	2018/08/29	17:21:37	50.9
597	2018/08/29	17:21:38	50.8
598	2018/08/29	17:21:39	53.5
599	2018/08/29	17:21:40	51.6
600	2018/08/29	17:21:41	50.9

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 77.2 - 2018/08/29 17:27:29
Level Range : 40-100
SEL : 85.5
Leq : 57.8

No.s	Date Time	(dB)
1	2018/08/29 17:23:52	55.5
2	2018/08/29 17:23:53	57.3
3	2018/08/29 17:23:54	57.6
4	2018/08/29 17:23:55	57.5
5	2018/08/29 17:23:56	55.1
6	2018/08/29 17:23:57	55.2
7	2018/08/29 17:23:58	57.1
8	2018/08/29 17:23:59	58.3
9	2018/08/29 17:24:00	62.7
10	2018/08/29 17:24:01	69.6
11	2018/08/29 17:24:02	72.4
12	2018/08/29 17:24:03	60.4
13	2018/08/29 17:24:04	57.7
14	2018/08/29 17:24:05	56.6
15	2018/08/29 17:24:06	57.1
16	2018/08/29 17:24:07	56.9
17	2018/08/29 17:24:08	56.8
18	2018/08/29 17:24:09	57.0
19	2018/08/29 17:24:10	57.0
20	2018/08/29 17:24:11	57.3
21	2018/08/29 17:24:12	57.5
22	2018/08/29 17:24:13	59.1
23	2018/08/29 17:24:14	59.7
24	2018/08/29 17:24:15	58.4
25	2018/08/29 17:24:16	57.9
26	2018/08/29 17:24:17	57.9
27	2018/08/29 17:24:18	58.3
28	2018/08/29 17:24:19	59.0
29	2018/08/29 17:24:20	58.7
30	2018/08/29 17:24:21	57.0
31	2018/08/29 17:24:22	58.0
32	2018/08/29 17:24:23	58.5
33	2018/08/29 17:24:24	57.8
34	2018/08/29 17:24:25	56.8
35	2018/08/29 17:24:26	56.0
36	2018/08/29 17:24:27	55.6
37	2018/08/29 17:24:28	56.7
38	2018/08/29 17:24:29	55.6
39	2018/08/29 17:24:30	54.8
40	2018/08/29 17:24:31	56.0
41	2018/08/29 17:24:32	57.5
42	2018/08/29 17:24:33	58.2
43	2018/08/29 17:24:34	54.6
44	2018/08/29 17:24:35	54.9
45	2018/08/29 17:24:36	53.0
46	2018/08/29 17:24:37	52.0
47	2018/08/29 17:24:38	52.6
48	2018/08/29 17:24:39	53.5
49	2018/08/29 17:24:40	54.5
50	2018/08/29 17:24:41	50.6
51	2018/08/29 17:24:42	50.7
52	2018/08/29 17:24:43	50.3
53	2018/08/29 17:24:44	50.6
54	2018/08/29 17:24:45	50.5
55	2018/08/29 17:24:46	50.4
56	2018/08/29 17:24:47	50.2
57	2018/08/29 17:24:48	60.5
58	2018/08/29 17:24:49	56.1
59	2018/08/29 17:24:50	50.1
60	2018/08/29 17:24:51	50.7
61	2018/08/29 17:24:52	51.2
62	2018/08/29 17:24:53	50.4
63	2018/08/29 17:24:54	50.3
64	2018/08/29 17:24:55	50.7
65	2018/08/29 17:24:56	52.3
66	2018/08/29 17:24:57	57.2
67	2018/08/29 17:24:58	59.2
68	2018/08/29 17:24:59	54.0
69	2018/08/29 17:25:00	53.2
70	2018/08/29 17:25:01	52.6
71	2018/08/29 17:25:02	57.2
72	2018/08/29 17:25:03	56.6
73	2018/08/29 17:25:04	56.9
74	2018/08/29 17:25:05	54.8
75	2018/08/29 17:25:06	55.1
76	2018/08/29 17:25:07	56.9
77	2018/08/29 17:25:08	55.7
78	2018/08/29 17:25:09	55.2
79	2018/08/29 17:25:10	54.9
80	2018/08/29 17:25:11	55.4
81	2018/08/29 17:25:12	55.3
82	2018/08/29 17:25:13	55.7
83	2018/08/29 17:25:14	57.0
84	2018/08/29 17:25:15	57.6
85	2018/08/29 17:25:16	57.6

86	2018/08/29	17:25:17	57.3
87	2018/08/29	17:25:18	58.8
88	2018/08/29	17:25:19	62.6
89	2018/08/29	17:25:20	60.7
90	2018/08/29	17:25:21	59.2
91	2018/08/29	17:25:22	59.8
92	2018/08/29	17:25:23	57.6
93	2018/08/29	17:25:24	56.8
94	2018/08/29	17:25:25	57.4
95	2018/08/29	17:25:26	56.4
96	2018/08/29	17:25:27	55.7
97	2018/08/29	17:25:28	55.6
98	2018/08/29	17:25:29	55.4
99	2018/08/29	17:25:30	53.4
100	2018/08/29	17:25:31	52.9
101	2018/08/29	17:25:32	52.9
102	2018/08/29	17:25:33	53.8
103	2018/08/29	17:25:34	55.1
104	2018/08/29	17:25:35	53.0
105	2018/08/29	17:25:36	52.6
106	2018/08/29	17:25:37	57.4
107	2018/08/29	17:25:38	52.1
108	2018/08/29	17:25:39	55.5
109	2018/08/29	17:25:40	53.9
110	2018/08/29	17:25:41	53.8
111	2018/08/29	17:25:42	54.9
112	2018/08/29	17:25:43	55.2
113	2018/08/29	17:25:44	54.6
114	2018/08/29	17:25:45	56.4
115	2018/08/29	17:25:46	56.4
116	2018/08/29	17:25:47	56.8
117	2018/08/29	17:25:48	56.7
118	2018/08/29	17:25:49	56.8
119	2018/08/29	17:25:50	57.2
120	2018/08/29	17:25:51	58.0
121	2018/08/29	17:25:52	59.2
122	2018/08/29	17:25:53	58.6
123	2018/08/29	17:25:54	60.5
124	2018/08/29	17:25:55	59.1
125	2018/08/29	17:25:56	58.9
126	2018/08/29	17:25:57	57.3
127	2018/08/29	17:25:58	60.5
128	2018/08/29	17:25:59	58.6
129	2018/08/29	17:26:00	60.8
130	2018/08/29	17:26:01	63.1
131	2018/08/29	17:26:02	60.4
132	2018/08/29	17:26:03	61.8
133	2018/08/29	17:26:04	60.4
134	2018/08/29	17:26:05	61.0
135	2018/08/29	17:26:06	61.0
136	2018/08/29	17:26:07	63.5
137	2018/08/29	17:26:08	59.1
138	2018/08/29	17:26:09	61.4
139	2018/08/29	17:26:10	61.5
140	2018/08/29	17:26:11	60.2
141	2018/08/29	17:26:12	57.1
142	2018/08/29	17:26:13	58.3
143	2018/08/29	17:26:14	61.4
144	2018/08/29	17:26:15	59.2
145	2018/08/29	17:26:16	56.5
146	2018/08/29	17:26:17	56.7
147	2018/08/29	17:26:18	55.2
148	2018/08/29	17:26:19	53.5
149	2018/08/29	17:26:20	52.8
150	2018/08/29	17:26:21	52.6
151	2018/08/29	17:26:22	55.5
152	2018/08/29	17:26:23	56.7
153	2018/08/29	17:26:24	53.1
154	2018/08/29	17:26:25	55.4
155	2018/08/29	17:26:26	55.6
156	2018/08/29	17:26:27	52.4
157	2018/08/29	17:26:28	52.1
158	2018/08/29	17:26:29	52.9
159	2018/08/29	17:26:30	53.1
160	2018/08/29	17:26:31	55.3
161	2018/08/29	17:26:32	57.2
162	2018/08/29	17:26:33	57.6
163	2018/08/29	17:26:34	61.7
164	2018/08/29	17:26:35	60.8
165	2018/08/29	17:26:36	54.0
166	2018/08/29	17:26:37	51.6
167	2018/08/29	17:26:38	50.2
168	2018/08/29	17:26:39	50.8
169	2018/08/29	17:26:40	50.5
170	2018/08/29	17:26:41	50.3
171	2018/08/29	17:26:42	49.7
172	2018/08/29	17:26:43	50.1
173	2018/08/29	17:26:44	51.2
174	2018/08/29	17:26:45	50.3
175	2018/08/29	17:26:46	51.0
176	2018/08/29	17:26:47	50.8
177	2018/08/29	17:26:48	50.4
178	2018/08/29	17:26:49	50.6
179	2018/08/29	17:26:50	51.0
180	2018/08/29	17:26:51	50.7
181	2018/08/29	17:26:52	51.0
182	2018/08/29	17:26:53	51.2
183	2018/08/29	17:26:54	53.2
184	2018/08/29	17:26:55	52.2

185	2018/08/29	17:26:56	53.4
186	2018/08/29	17:26:57	55.2
187	2018/08/29	17:26:58	57.9
188	2018/08/29	17:26:59	61.5
189	2018/08/29	17:27:00	59.0
190	2018/08/29	17:27:01	56.2
191	2018/08/29	17:27:02	54.4
192	2018/08/29	17:27:03	55.1
193	2018/08/29	17:27:04	55.8
194	2018/08/29	17:27:05	55.7
195	2018/08/29	17:27:06	55.6
196	2018/08/29	17:27:07	55.8
197	2018/08/29	17:27:08	56.9
198	2018/08/29	17:27:09	55.3
199	2018/08/29	17:27:10	53.3
200	2018/08/29	17:27:11	54.1
201	2018/08/29	17:27:12	53.7
202	2018/08/29	17:27:13	53.4
203	2018/08/29	17:27:14	52.3
204	2018/08/29	17:27:15	54.0
205	2018/08/29	17:27:16	54.4
206	2018/08/29	17:27:17	53.3
207	2018/08/29	17:27:18	54.0
208	2018/08/29	17:27:19	52.8
209	2018/08/29	17:27:20	54.8
210	2018/08/29	17:27:21	52.3
211	2018/08/29	17:27:22	53.0
212	2018/08/29	17:27:23	52.5
213	2018/08/29	17:27:24	52.7
214	2018/08/29	17:27:25	53.2
215	2018/08/29	17:27:26	53.6
216	2018/08/29	17:27:27	55.3
217	2018/08/29	17:27:28	51.9
218	2018/08/29	17:27:29	61.6
219	2018/08/29	17:27:30	56.7
220	2018/08/29	17:27:31	51.4
221	2018/08/29	17:27:32	57.2
222	2018/08/29	17:27:33	54.6
223	2018/08/29	17:27:34	60.8
224	2018/08/29	17:27:35	58.5
225	2018/08/29	17:27:36	62.1
226	2018/08/29	17:27:37	64.3
227	2018/08/29	17:27:38	62.9
228	2018/08/29	17:27:39	66.7
229	2018/08/29	17:27:40	62.7
230	2018/08/29	17:27:41	61.4
231	2018/08/29	17:27:42	62.9
232	2018/08/29	17:27:43	59.4
233	2018/08/29	17:27:44	57.2
234	2018/08/29	17:27:45	58.0
235	2018/08/29	17:27:46	57.7
236	2018/08/29	17:27:47	58.5
237	2018/08/29	17:27:48	56.5
238	2018/08/29	17:27:49	57.8
239	2018/08/29	17:27:50	57.7
240	2018/08/29	17:27:51	58.3
241	2018/08/29	17:27:52	57.5
242	2018/08/29	17:27:53	58.9
243	2018/08/29	17:27:54	60.0
244	2018/08/29	17:27:55	58.8
245	2018/08/29	17:27:56	59.5
246	2018/08/29	17:27:57	59.7
247	2018/08/29	17:27:58	57.7
248	2018/08/29	17:27:59	56.7
249	2018/08/29	17:28:00	58.3
250	2018/08/29	17:28:01	60.4
251	2018/08/29	17:28:02	62.5
252	2018/08/29	17:28:03	59.2
253	2018/08/29	17:28:04	61.7
254	2018/08/29	17:28:05	55.8
255	2018/08/29	17:28:06	55.5
256	2018/08/29	17:28:07	55.2
257	2018/08/29	17:28:08	56.6
258	2018/08/29	17:28:09	55.9
259	2018/08/29	17:28:10	55.8
260	2018/08/29	17:28:11	56.9
261	2018/08/29	17:28:12	55.4
262	2018/08/29	17:28:13	56.5
263	2018/08/29	17:28:14	55.6
264	2018/08/29	17:28:15	55.9
265	2018/08/29	17:28:16	54.6
266	2018/08/29	17:28:17	55.8
267	2018/08/29	17:28:18	56.4
268	2018/08/29	17:28:19	54.4
269	2018/08/29	17:28:20	53.6
270	2018/08/29	17:28:21	54.5
271	2018/08/29	17:28:22	54.9
272	2018/08/29	17:28:23	54.7
273	2018/08/29	17:28:24	52.5
274	2018/08/29	17:28:25	52.0
275	2018/08/29	17:28:26	53.4
276	2018/08/29	17:28:27	55.9
277	2018/08/29	17:28:28	54.7
278	2018/08/29	17:28:29	55.2
279	2018/08/29	17:28:30	54.8
280	2018/08/29	17:28:31	56.0
281	2018/08/29	17:28:32	55.5
282	2018/08/29	17:28:33	54.9
283	2018/08/29	17:28:34	56.8

284	2018/08/29	17:28:35	55.5
285	2018/08/29	17:28:36	56.5
286	2018/08/29	17:28:37	55.4
287	2018/08/29	17:28:38	55.9
288	2018/08/29	17:28:39	56.6
289	2018/08/29	17:28:40	55.9
290	2018/08/29	17:28:41	58.6
291	2018/08/29	17:28:42	53.2
292	2018/08/29	17:28:43	57.9
293	2018/08/29	17:28:44	55.2
294	2018/08/29	17:28:45	53.2
295	2018/08/29	17:28:46	51.6
296	2018/08/29	17:28:47	51.6
297	2018/08/29	17:28:48	52.1
298	2018/08/29	17:28:49	52.6
299	2018/08/29	17:28:50	51.7
300	2018/08/29	17:28:51	52.4
301	2018/08/29	17:28:52	52.4
302	2018/08/29	17:28:53	51.7
303	2018/08/29	17:28:54	52.7
304	2018/08/29	17:28:55	52.6
305	2018/08/29	17:28:56	51.7
306	2018/08/29	17:28:57	57.2
307	2018/08/29	17:28:58	52.1
308	2018/08/29	17:28:59	52.1
309	2018/08/29	17:29:00	51.6
310	2018/08/29	17:29:01	51.7
311	2018/08/29	17:29:02	51.5
312	2018/08/29	17:29:03	53.5
313	2018/08/29	17:29:04	54.4
314	2018/08/29	17:29:05	54.0
315	2018/08/29	17:29:06	54.8
316	2018/08/29	17:29:07	56.7
317	2018/08/29	17:29:08	56.6
318	2018/08/29	17:29:09	57.0
319	2018/08/29	17:29:10	56.2
320	2018/08/29	17:29:11	55.6
321	2018/08/29	17:29:12	54.6
322	2018/08/29	17:29:13	55.5
323	2018/08/29	17:29:14	56.6
324	2018/08/29	17:29:15	57.1
325	2018/08/29	17:29:16	58.9
326	2018/08/29	17:29:17	61.8
327	2018/08/29	17:29:18	66.6
328	2018/08/29	17:29:19	65.4
329	2018/08/29	17:29:20	59.6
330	2018/08/29	17:29:21	55.1
331	2018/08/29	17:29:22	55.2
332	2018/08/29	17:29:23	55.7
333	2018/08/29	17:29:24	58.4
334	2018/08/29	17:29:25	58.8
335	2018/08/29	17:29:26	60.6
336	2018/08/29	17:29:27	61.5
337	2018/08/29	17:29:28	67.1
338	2018/08/29	17:29:29	69.4
339	2018/08/29	17:29:30	68.1
340	2018/08/29	17:29:31	62.1
341	2018/08/29	17:29:32	58.1
342	2018/08/29	17:29:33	59.5
343	2018/08/29	17:29:34	55.7
344	2018/08/29	17:29:35	55.0
345	2018/08/29	17:29:36	53.6
346	2018/08/29	17:29:37	53.1
347	2018/08/29	17:29:38	53.7
348	2018/08/29	17:29:39	55.5
349	2018/08/29	17:29:40	53.7
350	2018/08/29	17:29:41	51.4
351	2018/08/29	17:29:42	51.2
352	2018/08/29	17:29:43	50.9
353	2018/08/29	17:29:44	51.0
354	2018/08/29	17:29:45	51.4
355	2018/08/29	17:29:46	52.6
356	2018/08/29	17:29:47	54.8
357	2018/08/29	17:29:48	54.4
358	2018/08/29	17:29:49	53.5
359	2018/08/29	17:29:50	55.7
360	2018/08/29	17:29:51	52.8
361	2018/08/29	17:29:52	55.1
362	2018/08/29	17:29:53	51.7
363	2018/08/29	17:29:54	52.4
364	2018/08/29	17:29:55	52.5
365	2018/08/29	17:29:56	52.6
366	2018/08/29	17:29:57	53.2
367	2018/08/29	17:29:58	54.2
368	2018/08/29	17:29:59	54.2
369	2018/08/29	17:30:00	53.9
370	2018/08/29	17:30:01	52.1
371	2018/08/29	17:30:02	52.7
372	2018/08/29	17:30:03	53.2
373	2018/08/29	17:30:04	58.3
374	2018/08/29	17:30:05	54.9
375	2018/08/29	17:30:06	52.3
376	2018/08/29	17:30:07	58.1
377	2018/08/29	17:30:08	57.3
378	2018/08/29	17:30:09	54.0
379	2018/08/29	17:30:10	50.3
380	2018/08/29	17:30:11	50.7
381	2018/08/29	17:30:12	51.4
382	2018/08/29	17:30:13	50.7

383	2018/08/29	17:30:14	50.8
384	2018/08/29	17:30:15	51.0
385	2018/08/29	17:30:16	50.7
386	2018/08/29	17:30:17	54.2
387	2018/08/29	17:30:18	53.4
388	2018/08/29	17:30:19	55.0
389	2018/08/29	17:30:20	56.4
390	2018/08/29	17:30:21	56.4
391	2018/08/29	17:30:22	57.8
392	2018/08/29	17:30:23	59.4
393	2018/08/29	17:30:24	60.3
394	2018/08/29	17:30:25	58.4
395	2018/08/29	17:30:26	58.8
396	2018/08/29	17:30:27	57.2
397	2018/08/29	17:30:28	57.7
398	2018/08/29	17:30:29	58.3
399	2018/08/29	17:30:30	57.4
400	2018/08/29	17:30:31	57.1
401	2018/08/29	17:30:32	56.4
402	2018/08/29	17:30:33	56.1
403	2018/08/29	17:30:34	57.4
404	2018/08/29	17:30:35	56.7
405	2018/08/29	17:30:36	56.4
406	2018/08/29	17:30:37	56.6
407	2018/08/29	17:30:38	55.5
408	2018/08/29	17:30:39	55.3
409	2018/08/29	17:30:40	56.0
410	2018/08/29	17:30:41	54.3
411	2018/08/29	17:30:42	54.0
412	2018/08/29	17:30:43	54.6
413	2018/08/29	17:30:44	56.1
414	2018/08/29	17:30:45	57.0
415	2018/08/29	17:30:46	56.3
416	2018/08/29	17:30:47	58.0
417	2018/08/29	17:30:48	57.1
418	2018/08/29	17:30:49	56.9
419	2018/08/29	17:30:50	57.0
420	2018/08/29	17:30:51	53.9
421	2018/08/29	17:30:52	54.6
422	2018/08/29	17:30:53	54.0
423	2018/08/29	17:30:54	53.7
424	2018/08/29	17:30:55	55.6
425	2018/08/29	17:30:56	56.1
426	2018/08/29	17:30:57	55.0
427	2018/08/29	17:30:58	55.7
428	2018/08/29	17:30:59	58.7
429	2018/08/29	17:31:00	56.1
430	2018/08/29	17:31:01	55.1
431	2018/08/29	17:31:02	57.3
432	2018/08/29	17:31:03	56.4
433	2018/08/29	17:31:04	56.6
434	2018/08/29	17:31:05	59.7
435	2018/08/29	17:31:06	55.8
436	2018/08/29	17:31:07	56.4
437	2018/08/29	17:31:08	56.0
438	2018/08/29	17:31:09	55.7
439	2018/08/29	17:31:10	55.6
440	2018/08/29	17:31:11	55.9
441	2018/08/29	17:31:12	55.1
442	2018/08/29	17:31:13	55.3
443	2018/08/29	17:31:14	54.4
444	2018/08/29	17:31:15	55.1
445	2018/08/29	17:31:16	57.5
446	2018/08/29	17:31:17	53.7
447	2018/08/29	17:31:18	53.3
448	2018/08/29	17:31:19	54.3
449	2018/08/29	17:31:20	53.2
450	2018/08/29	17:31:21	52.4
451	2018/08/29	17:31:22	57.3
452	2018/08/29	17:31:23	54.3
453	2018/08/29	17:31:24	51.7
454	2018/08/29	17:31:25	51.9
455	2018/08/29	17:31:26	51.7
456	2018/08/29	17:31:27	51.7
457	2018/08/29	17:31:28	51.7
458	2018/08/29	17:31:29	51.9
459	2018/08/29	17:31:30	52.8
460	2018/08/29	17:31:31	53.0
461	2018/08/29	17:31:32	57.2
462	2018/08/29	17:31:33	53.0
463	2018/08/29	17:31:34	52.4
464	2018/08/29	17:31:35	54.2
465	2018/08/29	17:31:36	56.4
466	2018/08/29	17:31:37	60.3
467	2018/08/29	17:31:38	61.5
468	2018/08/29	17:31:39	65.7
469	2018/08/29	17:31:40	68.9
470	2018/08/29	17:31:41	69.1
471	2018/08/29	17:31:42	62.3
472	2018/08/29	17:31:43	62.0
473	2018/08/29	17:31:44	59.3
474	2018/08/29	17:31:45	59.3
475	2018/08/29	17:31:46	56.8
476	2018/08/29	17:31:47	56.4
477	2018/08/29	17:31:48	56.2
478	2018/08/29	17:31:49	53.5
479	2018/08/29	17:31:50	53.9
480	2018/08/29	17:31:51	54.2
481	2018/08/29	17:31:52	54.4

482	2018/08/29	17:31:53	56.5
483	2018/08/29	17:31:54	54.5
484	2018/08/29	17:31:55	54.2
485	2018/08/29	17:31:56	55.4
486	2018/08/29	17:31:57	53.4
487	2018/08/29	17:31:58	53.3
488	2018/08/29	17:31:59	53.3
489	2018/08/29	17:32:00	52.8
490	2018/08/29	17:32:01	53.5
491	2018/08/29	17:32:02	57.4
492	2018/08/29	17:32:03	56.0
493	2018/08/29	17:32:04	55.8
494	2018/08/29	17:32:05	53.4
495	2018/08/29	17:32:06	55.1
496	2018/08/29	17:32:07	56.1
497	2018/08/29	17:32:08	56.5
498	2018/08/29	17:32:09	56.2
499	2018/08/29	17:32:10	55.8
500	2018/08/29	17:32:11	58.5
501	2018/08/29	17:32:12	56.0
502	2018/08/29	17:32:13	54.3
503	2018/08/29	17:32:14	55.4
504	2018/08/29	17:32:15	53.5
505	2018/08/29	17:32:16	52.7
506	2018/08/29	17:32:17	51.4
507	2018/08/29	17:32:18	53.0
508	2018/08/29	17:32:19	52.7
509	2018/08/29	17:32:20	53.0
510	2018/08/29	17:32:21	52.1
511	2018/08/29	17:32:22	52.9
512	2018/08/29	17:32:23	53.1
513	2018/08/29	17:32:24	52.5
514	2018/08/29	17:32:25	53.5
515	2018/08/29	17:32:26	51.9
516	2018/08/29	17:32:27	52.5
517	2018/08/29	17:32:28	54.1
518	2018/08/29	17:32:29	51.7
519	2018/08/29	17:32:30	52.4
520	2018/08/29	17:32:31	51.7
521	2018/08/29	17:32:32	52.4
522	2018/08/29	17:32:33	53.8
523	2018/08/29	17:32:34	55.3
524	2018/08/29	17:32:35	57.2
525	2018/08/29	17:32:36	55.5
526	2018/08/29	17:32:37	55.8
527	2018/08/29	17:32:38	54.2
528	2018/08/29	17:32:39	54.7
529	2018/08/29	17:32:40	57.6
530	2018/08/29	17:32:41	57.8
531	2018/08/29	17:32:42	57.5
532	2018/08/29	17:32:43	57.5
533	2018/08/29	17:32:44	56.6
534	2018/08/29	17:32:45	57.6
535	2018/08/29	17:32:46	58.1
536	2018/08/29	17:32:47	55.9
537	2018/08/29	17:32:48	56.8
538	2018/08/29	17:32:49	57.0
539	2018/08/29	17:32:50	57.4
540	2018/08/29	17:32:51	58.1
541	2018/08/29	17:32:52	59.1
542	2018/08/29	17:32:53	58.8
543	2018/08/29	17:32:54	58.3
544	2018/08/29	17:32:55	58.4
545	2018/08/29	17:32:56	60.7
546	2018/08/29	17:32:57	57.8
547	2018/08/29	17:32:58	58.0
548	2018/08/29	17:32:59	58.5
549	2018/08/29	17:33:00	58.0
550	2018/08/29	17:33:01	57.5
551	2018/08/29	17:33:02	58.9
552	2018/08/29	17:33:03	58.3
553	2018/08/29	17:33:04	60.8
554	2018/08/29	17:33:05	58.9
555	2018/08/29	17:33:06	59.1
556	2018/08/29	17:33:07	60.7
557	2018/08/29	17:33:08	63.8
558	2018/08/29	17:33:09	59.9
559	2018/08/29	17:33:10	60.0
560	2018/08/29	17:33:11	60.5
561	2018/08/29	17:33:12	58.9
562	2018/08/29	17:33:13	59.1
563	2018/08/29	17:33:14	58.7
564	2018/08/29	17:33:15	58.4
565	2018/08/29	17:33:16	60.0
566	2018/08/29	17:33:17	57.4
567	2018/08/29	17:33:18	58.2
568	2018/08/29	17:33:19	57.8
569	2018/08/29	17:33:20	57.9
570	2018/08/29	17:33:21	57.6
571	2018/08/29	17:33:22	55.9
572	2018/08/29	17:33:23	56.1
573	2018/08/29	17:33:24	56.0
574	2018/08/29	17:33:25	58.9
575	2018/08/29	17:33:26	58.2
576	2018/08/29	17:33:27	61.0
577	2018/08/29	17:33:28	60.2
578	2018/08/29	17:33:29	57.6
579	2018/08/29	17:33:30	56.9
580	2018/08/29	17:33:31	57.7

581	2018/08/29	17:33:32	55.4
582	2018/08/29	17:33:33	55.8
583	2018/08/29	17:33:34	58.3
584	2018/08/29	17:33:35	59.3
585	2018/08/29	17:33:36	56.2
586	2018/08/29	17:33:37	55.4
587	2018/08/29	17:33:38	54.3
588	2018/08/29	17:33:39	54.8
589	2018/08/29	17:33:40	55.1
590	2018/08/29	17:33:41	53.6
591	2018/08/29	17:33:42	53.9
592	2018/08/29	17:33:43	52.9
593	2018/08/29	17:33:44	52.7
594	2018/08/29	17:33:45	53.4
595	2018/08/29	17:33:46	53.1
596	2018/08/29	17:33:47	53.7
597	2018/08/29	17:33:48	53.2
598	2018/08/29	17:33:49	51.5
599	2018/08/29	17:33:50	52.8
600	2018/08/29	17:33:51	54.8

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 91.0 - 2018/08/29 17:40:39
Level Range : 40-100
SEL : 97.1
Leq : 69.4

No.s	Date Time	(dB)
1	2018/08/29 17:37:02	63.5
2	2018/08/29 17:37:03	62.9
3	2018/08/29 17:37:04	64.2
4	2018/08/29 17:37:05	63.5
5	2018/08/29 17:37:06	61.6
6	2018/08/29 17:37:07	61.0
7	2018/08/29 17:37:08	60.7
8	2018/08/29 17:37:09	60.6
9	2018/08/29 17:37:10	60.9
10	2018/08/29 17:37:11	62.1
11	2018/08/29 17:37:12	62.2
12	2018/08/29 17:37:13	60.7
13	2018/08/29 17:37:14	60.2
14	2018/08/29 17:37:15	62.9
15	2018/08/29 17:37:16	62.4
16	2018/08/29 17:37:17	62.2
17	2018/08/29 17:37:18	61.4
18	2018/08/29 17:37:19	61.4
19	2018/08/29 17:37:20	59.0
20	2018/08/29 17:37:21	56.0
21	2018/08/29 17:37:22	56.0
22	2018/08/29 17:37:23	58.5
23	2018/08/29 17:37:24	59.0
24	2018/08/29 17:37:25	52.1
25	2018/08/29 17:37:26	52.8
26	2018/08/29 17:37:27	60.1
27	2018/08/29 17:37:28	60.4
28	2018/08/29 17:37:29	62.5
29	2018/08/29 17:37:30	65.0
30	2018/08/29 17:37:31	62.5
31	2018/08/29 17:37:32	59.2
32	2018/08/29 17:37:33	59.6
33	2018/08/29 17:37:34	60.5
34	2018/08/29 17:37:35	62.9
35	2018/08/29 17:37:36	64.8
36	2018/08/29 17:37:37	64.0
37	2018/08/29 17:37:38	63.9
38	2018/08/29 17:37:39	62.9
39	2018/08/29 17:37:40	58.7
40	2018/08/29 17:37:41	58.1
41	2018/08/29 17:37:42	56.7
42	2018/08/29 17:37:43	56.6
43	2018/08/29 17:37:44	56.9
44	2018/08/29 17:37:45	55.7
45	2018/08/29 17:37:46	55.7
46	2018/08/29 17:37:47	55.2
47	2018/08/29 17:37:48	56.8
48	2018/08/29 17:37:49	58.4
49	2018/08/29 17:37:50	59.4
50	2018/08/29 17:37:51	58.0
51	2018/08/29 17:37:52	58.0
52	2018/08/29 17:37:53	58.7
53	2018/08/29 17:37:54	61.1
54	2018/08/29 17:37:55	63.5
55	2018/08/29 17:37:56	67.3
56	2018/08/29 17:37:57	66.7
57	2018/08/29 17:37:58	68.9
58	2018/08/29 17:37:59	74.4
59	2018/08/29 17:38:00	79.2
60	2018/08/29 17:38:01	73.7
61	2018/08/29 17:38:02	68.3
62	2018/08/29 17:38:03	69.8
63	2018/08/29 17:38:04	73.0
64	2018/08/29 17:38:05	72.1
65	2018/08/29 17:38:06	71.0
66	2018/08/29 17:38:07	72.2
67	2018/08/29 17:38:08	71.5
68	2018/08/29 17:38:09	72.5
69	2018/08/29 17:38:10	68.5
70	2018/08/29 17:38:11	68.4
71	2018/08/29 17:38:12	68.8
72	2018/08/29 17:38:13	71.3
73	2018/08/29 17:38:14	68.8
74	2018/08/29 17:38:15	70.7
75	2018/08/29 17:38:16	70.2
76	2018/08/29 17:38:17	71.5
77	2018/08/29 17:38:18	69.4
78	2018/08/29 17:38:19	71.6
79	2018/08/29 17:38:20	68.5
80	2018/08/29 17:38:21	70.7
81	2018/08/29 17:38:22	68.4
82	2018/08/29 17:38:23	67.9
83	2018/08/29 17:38:24	67.0
84	2018/08/29 17:38:25	67.6
85	2018/08/29 17:38:26	68.2

86	2018/08/29	17:38:27	70.2
87	2018/08/29	17:38:28	66.9
88	2018/08/29	17:38:29	68.9
89	2018/08/29	17:38:30	64.8
90	2018/08/29	17:38:31	64.2
91	2018/08/29	17:38:32	66.0
92	2018/08/29	17:38:33	69.0
93	2018/08/29	17:38:34	68.1
94	2018/08/29	17:38:35	68.5
95	2018/08/29	17:38:36	66.2
96	2018/08/29	17:38:37	67.2
97	2018/08/29	17:38:38	68.8
98	2018/08/29	17:38:39	72.2
99	2018/08/29	17:38:40	66.3
100	2018/08/29	17:38:41	66.8
101	2018/08/29	17:38:42	73.8
102	2018/08/29	17:38:43	66.6
103	2018/08/29	17:38:44	66.4
104	2018/08/29	17:38:45	69.9
105	2018/08/29	17:38:46	65.2
106	2018/08/29	17:38:47	67.6
107	2018/08/29	17:38:48	74.0
108	2018/08/29	17:38:49	68.1
109	2018/08/29	17:38:50	64.8
110	2018/08/29	17:38:51	63.6
111	2018/08/29	17:38:52	66.3
112	2018/08/29	17:38:53	72.4
113	2018/08/29	17:38:54	75.2
114	2018/08/29	17:38:55	70.9
115	2018/08/29	17:38:56	71.6
116	2018/08/29	17:38:57	71.3
117	2018/08/29	17:38:58	72.7
118	2018/08/29	17:38:59	73.1
119	2018/08/29	17:39:00	72.5
120	2018/08/29	17:39:01	71.4
121	2018/08/29	17:39:02	71.4
122	2018/08/29	17:39:03	68.9
123	2018/08/29	17:39:04	68.7
124	2018/08/29	17:39:05	67.7
125	2018/08/29	17:39:06	67.9
126	2018/08/29	17:39:07	69.8
127	2018/08/29	17:39:08	66.4
128	2018/08/29	17:39:09	68.7
129	2018/08/29	17:39:10	67.3
130	2018/08/29	17:39:11	68.1
131	2018/08/29	17:39:12	67.5
132	2018/08/29	17:39:13	71.1
133	2018/08/29	17:39:14	64.9
134	2018/08/29	17:39:15	62.0
135	2018/08/29	17:39:16	58.4
136	2018/08/29	17:39:17	58.1
137	2018/08/29	17:39:18	57.3
138	2018/08/29	17:39:19	58.2
139	2018/08/29	17:39:20	61.6
140	2018/08/29	17:39:21	61.5
141	2018/08/29	17:39:22	55.9
142	2018/08/29	17:39:23	54.3
143	2018/08/29	17:39:24	53.0
144	2018/08/29	17:39:25	53.9
145	2018/08/29	17:39:26	56.3
146	2018/08/29	17:39:27	59.2
147	2018/08/29	17:39:28	63.8
148	2018/08/29	17:39:29	68.5
149	2018/08/29	17:39:30	72.9
150	2018/08/29	17:39:31	68.3
151	2018/08/29	17:39:32	65.1
152	2018/08/29	17:39:33	62.9
153	2018/08/29	17:39:34	61.6
154	2018/08/29	17:39:35	62.4
155	2018/08/29	17:39:36	62.6
156	2018/08/29	17:39:37	61.7
157	2018/08/29	17:39:38	61.8
158	2018/08/29	17:39:39	64.9
159	2018/08/29	17:39:40	67.6
160	2018/08/29	17:39:41	66.8
161	2018/08/29	17:39:42	66.6
162	2018/08/29	17:39:43	65.4
163	2018/08/29	17:39:44	62.3
164	2018/08/29	17:39:45	60.7
165	2018/08/29	17:39:46	58.7
166	2018/08/29	17:39:47	59.3
167	2018/08/29	17:39:48	60.4
168	2018/08/29	17:39:49	60.0
169	2018/08/29	17:39:50	60.4
170	2018/08/29	17:39:51	63.8
171	2018/08/29	17:39:52	65.2
172	2018/08/29	17:39:53	65.3
173	2018/08/29	17:39:54	62.3
174	2018/08/29	17:39:55	60.5
175	2018/08/29	17:39:56	57.5
176	2018/08/29	17:39:57	56.9
177	2018/08/29	17:39:58	57.6
178	2018/08/29	17:39:59	56.0
179	2018/08/29	17:40:00	56.4
180	2018/08/29	17:40:01	56.0
181	2018/08/29	17:40:02	55.1
182	2018/08/29	17:40:03	55.1
183	2018/08/29	17:40:04	56.0
184	2018/08/29	17:40:05	57.3

185	2018/08/29	17:40:06	59.6
186	2018/08/29	17:40:07	66.6
187	2018/08/29	17:40:08	69.8
188	2018/08/29	17:40:09	64.6
189	2018/08/29	17:40:10	62.3
190	2018/08/29	17:40:11	62.1
191	2018/08/29	17:40:12	61.7
192	2018/08/29	17:40:13	62.1
193	2018/08/29	17:40:14	62.5
194	2018/08/29	17:40:15	61.2
195	2018/08/29	17:40:16	59.4
196	2018/08/29	17:40:17	61.0
197	2018/08/29	17:40:18	61.9
198	2018/08/29	17:40:19	61.6
199	2018/08/29	17:40:20	61.0
200	2018/08/29	17:40:21	62.9
201	2018/08/29	17:40:22	62.5
202	2018/08/29	17:40:23	62.2
203	2018/08/29	17:40:24	62.7
204	2018/08/29	17:40:25	68.9
205	2018/08/29	17:40:26	74.1
206	2018/08/29	17:40:27	74.0
207	2018/08/29	17:40:28	74.3
208	2018/08/29	17:40:29	73.6
209	2018/08/29	17:40:30	72.7
210	2018/08/29	17:40:31	76.0
211	2018/08/29	17:40:32	69.7
212	2018/08/29	17:40:33	73.2
213	2018/08/29	17:40:34	72.4
214	2018/08/29	17:40:35	74.2
215	2018/08/29	17:40:36	72.0
216	2018/08/29	17:40:37	74.9
217	2018/08/29	17:40:38	86.3
218	2018/08/29	17:40:39	90.7
219	2018/08/29	17:40:40	73.5
220	2018/08/29	17:40:41	71.3
221	2018/08/29	17:40:42	69.9
222	2018/08/29	17:40:43	70.3
223	2018/08/29	17:40:44	70.0
224	2018/08/29	17:40:45	70.7
225	2018/08/29	17:40:46	72.3
226	2018/08/29	17:40:47	80.6
227	2018/08/29	17:40:48	73.2
228	2018/08/29	17:40:49	69.5
229	2018/08/29	17:40:50	69.2
230	2018/08/29	17:40:51	70.7
231	2018/08/29	17:40:52	71.0
232	2018/08/29	17:40:53	67.3
233	2018/08/29	17:40:54	67.2
234	2018/08/29	17:40:55	70.9
235	2018/08/29	17:40:56	66.4
236	2018/08/29	17:40:57	64.3
237	2018/08/29	17:40:58	62.7
238	2018/08/29	17:40:59	62.0
239	2018/08/29	17:41:00	60.8
240	2018/08/29	17:41:01	62.4
241	2018/08/29	17:41:02	62.4
242	2018/08/29	17:41:03	62.5
243	2018/08/29	17:41:04	60.4
244	2018/08/29	17:41:05	60.2
245	2018/08/29	17:41:06	59.6
246	2018/08/29	17:41:07	58.7
247	2018/08/29	17:41:08	58.1
248	2018/08/29	17:41:09	59.2
249	2018/08/29	17:41:10	58.2
250	2018/08/29	17:41:11	60.0
251	2018/08/29	17:41:12	64.8
252	2018/08/29	17:41:13	64.4
253	2018/08/29	17:41:14	65.7
254	2018/08/29	17:41:15	66.0
255	2018/08/29	17:41:16	67.4
256	2018/08/29	17:41:17	68.3
257	2018/08/29	17:41:18	69.7
258	2018/08/29	17:41:19	72.7
259	2018/08/29	17:41:20	74.6
260	2018/08/29	17:41:21	76.0
261	2018/08/29	17:41:22	76.0
262	2018/08/29	17:41:23	75.2
263	2018/08/29	17:41:24	71.4
264	2018/08/29	17:41:25	69.1
265	2018/08/29	17:41:26	67.2
266	2018/08/29	17:41:27	69.8
267	2018/08/29	17:41:28	67.6
268	2018/08/29	17:41:29	67.5
269	2018/08/29	17:41:30	67.1
270	2018/08/29	17:41:31	67.1
271	2018/08/29	17:41:32	71.1
272	2018/08/29	17:41:33	68.6
273	2018/08/29	17:41:34	66.6
274	2018/08/29	17:41:35	64.1
275	2018/08/29	17:41:36	66.3
276	2018/08/29	17:41:37	68.8
277	2018/08/29	17:41:38	64.0
278	2018/08/29	17:41:39	66.0
279	2018/08/29	17:41:40	67.9
280	2018/08/29	17:41:41	62.9
281	2018/08/29	17:41:42	62.2
282	2018/08/29	17:41:43	63.0
283	2018/08/29	17:41:44	64.4

284	2018/08/29	17:41:45	65.5
285	2018/08/29	17:41:46	64.6
286	2018/08/29	17:41:47	60.8
287	2018/08/29	17:41:48	60.4
288	2018/08/29	17:41:49	60.4
289	2018/08/29	17:41:50	62.2
290	2018/08/29	17:41:51	63.9
291	2018/08/29	17:41:52	64.9
292	2018/08/29	17:41:53	62.0
293	2018/08/29	17:41:54	61.3
294	2018/08/29	17:41:55	60.8
295	2018/08/29	17:41:56	57.9
296	2018/08/29	17:41:57	53.5
297	2018/08/29	17:41:58	52.8
298	2018/08/29	17:41:59	54.9
299	2018/08/29	17:42:00	56.4
300	2018/08/29	17:42:01	58.4
301	2018/08/29	17:42:02	64.0
302	2018/08/29	17:42:03	59.1
303	2018/08/29	17:42:04	60.7
304	2018/08/29	17:42:05	61.6
305	2018/08/29	17:42:06	62.4
306	2018/08/29	17:42:07	61.8
307	2018/08/29	17:42:08	61.4
308	2018/08/29	17:42:09	60.7
309	2018/08/29	17:42:10	61.3
310	2018/08/29	17:42:11	60.9
311	2018/08/29	17:42:12	60.0
312	2018/08/29	17:42:13	59.5
313	2018/08/29	17:42:14	59.0
314	2018/08/29	17:42:15	58.5
315	2018/08/29	17:42:16	58.1
316	2018/08/29	17:42:17	60.0
317	2018/08/29	17:42:18	59.0
318	2018/08/29	17:42:19	58.4
319	2018/08/29	17:42:20	58.6
320	2018/08/29	17:42:21	59.9
321	2018/08/29	17:42:22	59.7
322	2018/08/29	17:42:23	59.3
323	2018/08/29	17:42:24	60.1
324	2018/08/29	17:42:25	60.4
325	2018/08/29	17:42:26	62.3
326	2018/08/29	17:42:27	58.8
327	2018/08/29	17:42:28	60.0
328	2018/08/29	17:42:29	60.7
329	2018/08/29	17:42:30	60.9
330	2018/08/29	17:42:31	61.3
331	2018/08/29	17:42:32	59.1
332	2018/08/29	17:42:33	59.5
333	2018/08/29	17:42:34	58.5
334	2018/08/29	17:42:35	61.0
335	2018/08/29	17:42:36	59.1
336	2018/08/29	17:42:37	60.8
337	2018/08/29	17:42:38	60.4
338	2018/08/29	17:42:39	61.4
339	2018/08/29	17:42:40	61.3
340	2018/08/29	17:42:41	60.2
341	2018/08/29	17:42:42	60.9
342	2018/08/29	17:42:43	60.3
343	2018/08/29	17:42:44	59.7
344	2018/08/29	17:42:45	62.2
345	2018/08/29	17:42:46	67.5
346	2018/08/29	17:42:47	60.2
347	2018/08/29	17:42:48	65.3
348	2018/08/29	17:42:49	63.2
349	2018/08/29	17:42:50	61.8
350	2018/08/29	17:42:51	63.8
351	2018/08/29	17:42:52	62.6
352	2018/08/29	17:42:53	64.1
353	2018/08/29	17:42:54	64.0
354	2018/08/29	17:42:55	63.7
355	2018/08/29	17:42:56	64.1
356	2018/08/29	17:42:57	66.1
357	2018/08/29	17:42:58	64.3
358	2018/08/29	17:42:59	63.2
359	2018/08/29	17:43:00	62.8
360	2018/08/29	17:43:01	61.7
361	2018/08/29	17:43:02	62.1
362	2018/08/29	17:43:03	62.7
363	2018/08/29	17:43:04	63.3
364	2018/08/29	17:43:05	64.3
365	2018/08/29	17:43:06	65.4
366	2018/08/29	17:43:07	68.1
367	2018/08/29	17:43:08	74.2
368	2018/08/29	17:43:09	70.8
369	2018/08/29	17:43:10	71.8
370	2018/08/29	17:43:11	72.2
371	2018/08/29	17:43:12	71.8
372	2018/08/29	17:43:13	69.5
373	2018/08/29	17:43:14	71.2
374	2018/08/29	17:43:15	71.1
375	2018/08/29	17:43:16	70.7
376	2018/08/29	17:43:17	69.8
377	2018/08/29	17:43:18	70.4
378	2018/08/29	17:43:19	70.4
379	2018/08/29	17:43:20	71.1
380	2018/08/29	17:43:21	69.8
381	2018/08/29	17:43:22	71.2
382	2018/08/29	17:43:23	69.3

383	2018/08/29	17:43:24	74.7
384	2018/08/29	17:43:25	67.8
385	2018/08/29	17:43:26	66.5
386	2018/08/29	17:43:27	65.8
387	2018/08/29	17:43:28	67.0
388	2018/08/29	17:43:29	68.4
389	2018/08/29	17:43:30	67.6
390	2018/08/29	17:43:31	69.4
391	2018/08/29	17:43:32	70.3
392	2018/08/29	17:43:33	66.1
393	2018/08/29	17:43:34	66.8
394	2018/08/29	17:43:35	63.9
395	2018/08/29	17:43:36	63.0
396	2018/08/29	17:43:37	61.8
397	2018/08/29	17:43:38	61.0
398	2018/08/29	17:43:39	60.9
399	2018/08/29	17:43:40	61.0
400	2018/08/29	17:43:41	60.8
401	2018/08/29	17:43:42	59.0
402	2018/08/29	17:43:43	59.0
403	2018/08/29	17:43:44	60.2
404	2018/08/29	17:43:45	60.7
405	2018/08/29	17:43:46	63.3
406	2018/08/29	17:43:47	67.4
407	2018/08/29	17:43:48	66.7
408	2018/08/29	17:43:49	66.9
409	2018/08/29	17:43:50	72.8
410	2018/08/29	17:43:51	70.6
411	2018/08/29	17:43:52	73.3
412	2018/08/29	17:43:53	75.4
413	2018/08/29	17:43:54	71.5
414	2018/08/29	17:43:55	70.3
415	2018/08/29	17:43:56	70.5
416	2018/08/29	17:43:57	71.2
417	2018/08/29	17:43:58	72.4
418	2018/08/29	17:43:59	68.8
419	2018/08/29	17:44:00	68.7
420	2018/08/29	17:44:01	64.7
421	2018/08/29	17:44:02	61.8
422	2018/08/29	17:44:03	60.2
423	2018/08/29	17:44:04	60.3
424	2018/08/29	17:44:05	64.8
425	2018/08/29	17:44:06	70.4
426	2018/08/29	17:44:07	65.7
427	2018/08/29	17:44:08	67.3
428	2018/08/29	17:44:09	68.9
429	2018/08/29	17:44:10	67.4
430	2018/08/29	17:44:11	72.1
431	2018/08/29	17:44:12	67.2
432	2018/08/29	17:44:13	69.6
433	2018/08/29	17:44:14	67.2
434	2018/08/29	17:44:15	66.7
435	2018/08/29	17:44:16	65.7
436	2018/08/29	17:44:17	66.3
437	2018/08/29	17:44:18	66.6
438	2018/08/29	17:44:19	66.6
439	2018/08/29	17:44:20	65.5
440	2018/08/29	17:44:21	64.0
441	2018/08/29	17:44:22	63.7
442	2018/08/29	17:44:23	61.9
443	2018/08/29	17:44:24	60.1
444	2018/08/29	17:44:25	58.7
445	2018/08/29	17:44:26	57.0
446	2018/08/29	17:44:27	56.2
447	2018/08/29	17:44:28	52.9
448	2018/08/29	17:44:29	52.2
449	2018/08/29	17:44:30	52.1
450	2018/08/29	17:44:31	52.9
451	2018/08/29	17:44:32	53.9
452	2018/08/29	17:44:33	55.8
453	2018/08/29	17:44:34	59.1
454	2018/08/29	17:44:35	63.5
455	2018/08/29	17:44:36	63.5
456	2018/08/29	17:44:37	62.3
457	2018/08/29	17:44:38	61.4
458	2018/08/29	17:44:39	62.5
459	2018/08/29	17:44:40	64.6
460	2018/08/29	17:44:41	64.9
461	2018/08/29	17:44:42	68.8
462	2018/08/29	17:44:43	71.0
463	2018/08/29	17:44:44	74.1
464	2018/08/29	17:44:45	74.7
465	2018/08/29	17:44:46	70.4
466	2018/08/29	17:44:47	69.1
467	2018/08/29	17:44:48	68.0
468	2018/08/29	17:44:49	67.6
469	2018/08/29	17:44:50	66.0
470	2018/08/29	17:44:51	66.5
471	2018/08/29	17:44:52	66.4
472	2018/08/29	17:44:53	67.1
473	2018/08/29	17:44:54	65.5
474	2018/08/29	17:44:55	64.2
475	2018/08/29	17:44:56	64.0
476	2018/08/29	17:44:57	64.5
477	2018/08/29	17:44:58	65.3
478	2018/08/29	17:44:59	65.7
479	2018/08/29	17:45:00	60.2
480	2018/08/29	17:45:01	59.8
481	2018/08/29	17:45:02	58.4

482	2018/08/29	17:45:03	58.8
483	2018/08/29	17:45:04	59.3
484	2018/08/29	17:45:05	60.8
485	2018/08/29	17:45:06	61.9
486	2018/08/29	17:45:07	64.4
487	2018/08/29	17:45:08	65.4
488	2018/08/29	17:45:09	69.4
489	2018/08/29	17:45:10	64.3
490	2018/08/29	17:45:11	63.3
491	2018/08/29	17:45:12	62.5
492	2018/08/29	17:45:13	63.7
493	2018/08/29	17:45:14	63.6
494	2018/08/29	17:45:15	63.7
495	2018/08/29	17:45:16	63.8
496	2018/08/29	17:45:17	64.9
497	2018/08/29	17:45:18	65.8
498	2018/08/29	17:45:19	64.7
499	2018/08/29	17:45:20	63.3
500	2018/08/29	17:45:21	65.7
501	2018/08/29	17:45:22	64.6
502	2018/08/29	17:45:23	64.0
503	2018/08/29	17:45:24	62.5
504	2018/08/29	17:45:25	61.1
505	2018/08/29	17:45:26	60.5
506	2018/08/29	17:45:27	60.7
507	2018/08/29	17:45:28	59.2
508	2018/08/29	17:45:29	58.8
509	2018/08/29	17:45:30	58.9
510	2018/08/29	17:45:31	57.2
511	2018/08/29	17:45:32	58.2
512	2018/08/29	17:45:33	58.0
513	2018/08/29	17:45:34	58.0
514	2018/08/29	17:45:35	60.1
515	2018/08/29	17:45:36	61.2
516	2018/08/29	17:45:37	62.9
517	2018/08/29	17:45:38	65.7
518	2018/08/29	17:45:39	66.8
519	2018/08/29	17:45:40	68.5
520	2018/08/29	17:45:41	70.6
521	2018/08/29	17:45:42	75.4
522	2018/08/29	17:45:43	71.6
523	2018/08/29	17:45:44	72.6
524	2018/08/29	17:45:45	71.8
525	2018/08/29	17:45:46	76.1
526	2018/08/29	17:45:47	71.4
527	2018/08/29	17:45:48	69.1
528	2018/08/29	17:45:49	68.2
529	2018/08/29	17:45:50	69.1
530	2018/08/29	17:45:51	70.3
531	2018/08/29	17:45:52	70.1
532	2018/08/29	17:45:53	73.0
533	2018/08/29	17:45:54	73.2
534	2018/08/29	17:45:55	72.6
535	2018/08/29	17:45:56	69.1
536	2018/08/29	17:45:57	70.1
537	2018/08/29	17:45:58	71.5
538	2018/08/29	17:45:59	71.1
539	2018/08/29	17:46:00	73.7
540	2018/08/29	17:46:01	70.3
541	2018/08/29	17:46:02	70.6
542	2018/08/29	17:46:03	70.2
543	2018/08/29	17:46:04	68.7
544	2018/08/29	17:46:05	71.2
545	2018/08/29	17:46:06	68.8
546	2018/08/29	17:46:07	69.7
547	2018/08/29	17:46:08	66.7
548	2018/08/29	17:46:09	66.0
549	2018/08/29	17:46:10	68.0
550	2018/08/29	17:46:11	67.6
551	2018/08/29	17:46:12	68.1
552	2018/08/29	17:46:13	65.3
553	2018/08/29	17:46:14	63.6
554	2018/08/29	17:46:15	61.7
555	2018/08/29	17:46:16	63.0
556	2018/08/29	17:46:17	62.4
557	2018/08/29	17:46:18	60.4
558	2018/08/29	17:46:19	61.0
559	2018/08/29	17:46:20	61.3
560	2018/08/29	17:46:21	60.8
561	2018/08/29	17:46:22	59.6
562	2018/08/29	17:46:23	59.3
563	2018/08/29	17:46:24	61.6
564	2018/08/29	17:46:25	65.9
565	2018/08/29	17:46:26	66.4
566	2018/08/29	17:46:27	66.2
567	2018/08/29	17:46:28	69.9
568	2018/08/29	17:46:29	71.3
569	2018/08/29	17:46:30	71.6
570	2018/08/29	17:46:31	70.9
571	2018/08/29	17:46:32	70.7
572	2018/08/29	17:46:33	73.0
573	2018/08/29	17:46:34	71.9
574	2018/08/29	17:46:35	71.7
575	2018/08/29	17:46:36	71.2
576	2018/08/29	17:46:37	79.7
577	2018/08/29	17:46:38	73.8
578	2018/08/29	17:46:39	69.5
579	2018/08/29	17:46:40	73.6
580	2018/08/29	17:46:41	75.4

581	2018/08/29	17:46:42	65.0
582	2018/08/29	17:46:43	69.1
583	2018/08/29	17:46:44	70.6
584	2018/08/29	17:46:45	71.0
585	2018/08/29	17:46:46	69.7
586	2018/08/29	17:46:47	69.3
587	2018/08/29	17:46:48	69.1
588	2018/08/29	17:46:49	67.8
589	2018/08/29	17:46:50	67.9
590	2018/08/29	17:46:51	69.4
591	2018/08/29	17:46:52	70.1
592	2018/08/29	17:46:53	66.0
593	2018/08/29	17:46:54	68.7
594	2018/08/29	17:46:55	70.0
595	2018/08/29	17:46:56	70.4
596	2018/08/29	17:46:57	67.8
597	2018/08/29	17:46:58	65.7
598	2018/08/29	17:46:59	66.2
599	2018/08/29	17:47:00	67.5
600	2018/08/29	17:47:01	68.5

Vibration Analysis

PPV (in/sec) = PPV {ref} * (25/D)^1.5

Where PPV = Peak Particle Velocity
{ref} = PPV at the reference distance of 25 feet
D = distance to the receptor

Equipment = Roller

PPV{ref} = 0.21 in/sec
D = 50 feet
PPV at receptor = 0.074 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.019 in/sec
Lv = 85 VdB

Equipment = Dozer

PPV{ref} = 0.089 in/sec
D = 50 feet
PPV at receptor = 0.031 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.008 in/sec
Lv = 78 VdB

Source: Chapter 12 Noise and Vibration During Construction in
Transit Noise and Vibration Assessment, April 1995
Harris Miller Miller & Hanson, Inc.
Prepared For: USDOT Federal Transit Administration

Vibration Source Levels For Construction Equipment

Equipment		PPV at 25 ft (in/sec)	Approximate Lv at 25 feet *
Impact Pile Driver	upper range	1.518	112
	typical	0.644	104
Sonic Pile Driver	upper range	0.734	105
	typical	0.17	93
Clam shovel drop (slurry wall construction)		0.202	94
Hydromill (slurry wall construction)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.21	94
Hoe Ram		0.089	87
Bulldozer	large	0.089	87
	small	0.003	58
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79

* RMS Velocity in decibels VdB with Vref of 1E-6 in/sec and PPV:RMS of ~1.7

Criterion

US Bureau of Mines, 1971	
PPV, in/sec	Degree of Damage
<2	Safe
2 - 4	Plaster Cracking
4 - 7	Minor Damage
>7	Major Damage

Canmet, Bauer, and Calder, 1977		
Equipment	PPV Threshold, in/sec	Type of Damage
Rigid Mercury Switches	0.5	Trip Out
House	2	Cracked Plaster
Concrete Block	8	Crack in Block
Cased Drill Holes	15	Horizontal Offset
Pumps, Compressors	40	Shaft Misalignment

Human Response Criteria

Level, Lv in VdB	Equivalent Noise Level, dBA		Human Response
	Low freq (30Hz)	Hi Freq (60 Hz)	
65	25	40	Approximate threshold of perception, low-freq inaudible, but mid-freq excessive for sleeping Approx. dividing line between barely perceptible and clearly perceptible. Annoying vibration for most people. Low-freq acceptable for sleeping areas. Vibration acceptable only if no more than 2 events/day for residential uses. Low-freq annoying in sleeping areas; mid-freq unacceptable for sensitive uses, including schools and churches. Difficulty with tasks such as reading computer screens. Generally annoying for commercial uses.
75	35	50	
85	45	60	
90	50	65	

Impact Criteria

Land Use	Lv in VdB		
	Frequent Events (70+/day)	Occasional Events (30-70)	Infrequent (<30 events/day)
Category 1: Vibration Sensitive	65	65	65
Concert Halls	65	65	65
TV Studios	65	65	65
Recording Studios	65	65	65
Category 2: Residences, hotels, sleeping areas	72	75	80
Auditoriums	72	80	80
Theaters	72	80	80
Category 3: Institutional with primarily daytime use only	75	78	83

Vibration Analysis

PPV (in/sec) = PPV {ref} * (25/D)^1.5

Where PPV = Peak Particle Velocity
{ref} = PPV at the reference distance of 25 feet
D = distance to the receptor

Equipment = Roller

PPV{ref} = 0.21 in/sec
D = 85 feet
PPV at receptor = 0.033 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.008 in/sec
Lv = 78 VdB

Equipment = Dozer

PPV{ref} = 0.089 in/sec
D = 85 feet
PPV at receptor = 0.014 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.004 in/sec
Lv = 71 VdB

Source: Chapter 12 Noise and Vibration During Construction in
Transit Noise and Vibration Assessment, April 1995
Harris Miller Miller & Hanson, Inc.
Prepared For: USDOT Federal Transit Administration

Vibration Source Levels For Construction Equipment

Equipment		PPV at 25 ft (in/sec)	Approximate Lv at 25 feet *
Impact Pile Driver	upper range	1.518	112
	typical	0.644	104
Sonic Pile Driver	upper range	0.734	105
	typical	0.17	93
Clam shovel drop (slurry wall construction)		0.202	94
Hydromill (slurry wall construction)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.21	94
Hoe Ram		0.089	87
Bulldozer	large	0.089	87
	small	0.003	58
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79

* RMS Velocity in decibels VdB with Vref of 1E-6 in/sec and PPV:RMS of ~1.7

Criterion

US Bureau of Mines, 1971	
PPV, in/sec	Degree of Damage
<2	Safe
2 - 4	Plaster Cracking
4 - 7	Minor Damage
>7	Major Damage

Canmet, Bauer, and Calder, 1977		
Equipment	PPV Threshold, in/sec	Type of Damage
Rigid Mercury Switches	0.5	Trip Out
House	2	Cracked Plaster
Concrete Block	8	Crack in Block
Cased Drill Holes	15	Horizontal Offset
Pumps, Compressors	40	Shaft Misalignment

Human Response Criteria

Level, Lv in VdB	Equivalent Noise Level, dBA		Human Response
	Low freq (30Hz)	Hi Freq (60 Hz)	
65	25	40	Approximate threshold of perception, low-freq inaudible, but mid-freq excessive for sleeping Approx. dividing line between barely perceptible and clearly perceptible. Annoying vibration for most people. Low-freq acceptable for sleeping areas. Vibration acceptable only if no more than 2 events/day for residential uses. Low-freq annoying in sleeping areas; mid-freq unacceptable for sensitive uses, including schools and churches. Difficulty with tasks such as reading computer screens. Generally annoying for commercial uses.
75	35	50	
85	45	60	
90	50	65	

Impact Criteria

Land Use	Lv in VdB		
	Frequent Events (70+/day)	Occasional Events (30-70)	Infrequent (<30 events/day)
Category 1: Vibration Sensitive	65	65	65
Concert Halls	65	65	65
TV Studios	65	65	65
Recording Studios	65	65	65
Category 2: Residences, hotels, sleeping areas	72	75	80
Auditoriums	72	80	80
Theaters	72	80	80
Category 3: Institutional with primarily daytime use only	75	78	83

Vibration Analysis

PPV (in/sec) = PPV {ref} * (25/D)^1.5

Where PPV = Peak Particle Velocity
{ref} = PPV at the reference distance of 25 feet
D = distance to the receptor

Equipment = Roller

PPV{ref} = 0.21 in/sec
D = 150 feet
PPV at receptor = 0.014 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.004 in/sec
Lv = 71 VdB

Equipment = Dozer
PPV{ref} = 0.089 in/sec
D = 150 feet
PPV at receptor = 0.006 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.002 in/sec
Lv = 64 VdB

Source: Chapter 12 Noise and Vibration During Construction in
Transit Noise and Vibration Assessment, April 1995
Harris Miller Miller & Hanson, Inc.
Prepared For: USDOT Federal Transit Administration

Vibration Source Levels For Construction Equipment

Equipment		PPV at 25 ft (in/sec)	Approximate Lv at 25 feet *
Impact Pile Driver	upper range	1.518	112
	typical	0.644	104
Sonic Pile Driver	upper range	0.734	105
	typical	0.17	93
Clam shovel drop (slurry wall construction)		0.202	94
Hydromill (slurry wall construction)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.21	94
Hoe Ram		0.089	87
Bulldozer	large	0.089	87
	small	0.003	58
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79

* RMS Velocity in decibels VdB with Vref of 1E-6 in/sec and PPV:RMS of ~1.7

Criterion

US Bureau of Mines, 1971	
PPV, in/sec	Degree of Damage
<2	Safe
2 - 4	Plaster Cracking
4 - 7	Minor Damage
>7	Major Damage

Canmet, Bauer, and Calder, 1977		
Equipment	PPV Threshold, in/sec	Type of Damage
Rigid Mercury Switches	0.5	Trip Out
House	2	Cracked Plaster
Concrete Block	8	Crack in Block
Cased Drill Holes	15	Horizontal Offset
Pumps, Compressors	40	Shaft Misalignment

Human Response Criteria

Level, Lv in VdB	Equivalent Noise Level, dBA		Human Response
	Low freq (30Hz)	Hi Freq (60 Hz)	
65	25	40	Approximate threshold of perception, low-freq inaudible, but mid-freq excessive for sleeping Approx. dividing line between barely perceptible and clearly perceptible. Annoying vibration for most people. Low-freq acceptable for sleeping areas. Vibration acceptable only if no more than 2 events/day for residential uses. Low-freq annoying in sleeping areas; mid-freq unacceptable for sensitive uses, including schools and churches. Difficulty with tasks such as reading computer screens. Generally annoying for commercial uses.
75	35	50	
85	45	60	
90	50	65	

Impact Criteria

Land Use	Lv in VdB		
	Frequent Events (70+/day)	Occasional Events (30-70)	Infrequent (<30 events/day)
Category 1: Vibration Sensitive	65	65	65
Concert Halls	65	65	65
TV Studios	65	65	65
Recording Studios	65	65	65
Category 2: Residences, hotels, sleeping areas	72	75	80
Auditoriums	72	80	80
Theaters	72	80	80
Category 3: Institutional with primarily daytime use only	75	78	83

Vibration Analysis

PPV (in/sec) = PPV {ref} * (25/D)^1.5

Where PPV = Peak Particle Velocity
{ref} = PPV at the reference distance of 25 feet
D = distance to the receptor

Equipment = Roller

PPV{ref} = 0.21 in/sec
D = 350 feet
PPV at receptor = 0.004 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.001 in/sec
Lv = 60 VdB

Equipment = Dozer

PPV{ref} = 0.089 in/sec
D = 350 feet
PPV at receptor = 0.002 in/sec

PPV is 1.7x to 6x larger than RMS velocity
Assume typical conversion factor of 4 PPV:RMS

Therefore estimated RMS velocity = 0.000 in/sec
Lv = 53 VdB

Source: Chapter 12 Noise and Vibration During Construction in
Transit Noise and Vibration Assessment, April 1995
Harris Miller Miller & Hanson, Inc.
Prepared For: USDOT Federal Transit Administration

Vibration Source Levels For Construction Equipment

Equipment		PPV at 25 ft (in/sec)	Approximate Lv at 25 feet *
Impact Pile Driver	upper range	1.518	112
	typical	0.644	104
Sonic Pile Driver	upper range	0.734	105
	typical	0.17	93
Clam shovel drop (slurry wall construction)		0.202	94
Hydromill (slurry wall construction)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.21	94
Hoe Ram		0.089	87
Bulldozer	large	0.089	87
	small	0.003	58
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79

* RMS Velocity in decibels VdB with Vref of 1E-6 in/sec and PPV:RMS of ~1.7

Criterion

US Bureau of Mines, 1971	
PPV, in/sec	Degree of Damage
<2	Safe
2 - 4	Plaster Cracking
4 - 7	Minor Damage
>7	Major Damage

Canmet, Bauer, and Calder, 1977		
Equipment	PPV Threshold, in/sec	Type of Damage
Rigid Mercury Switches	0.5	Trip Out
House	2	Cracked Plaster
Concrete Block	8	Crack in Block
Cased Drill Holes	15	Horizontal Offset
Pumps, Compressors	40	Shaft Misalignment

Human Response Criteria

Level, Lv in VdB	Equivalent Noise Level, dBA		Human Response
	Low freq (30Hz)	Hi Freq (60 Hz)	
65	25	40	Approximate threshold of perception, low-freq inaudible, but mid-freq excessive for sleeping Approx. dividing line between barely perceptible and clearly perceptible. Annoying vibration for most people. Low-freq acceptable for sleeping areas. Vibration acceptable only if no more than 2 events/day for residential uses. Low-freq annoying in sleeping areas; mid-freq unacceptable for sensitive uses, including schools and churches. Difficulty with tasks such as reading computer screens. Generally annoying for commercial uses.
75	35	50	
85	45	60	
90	50	65	

Impact Criteria

Land Use	Lv in VdB		
	Frequent Events (70+/day)	Occasional Events (30-70)	Infrequent (<30 events/day)
Category 1: Vibration Sensitive	65	65	65
Concert Halls	65	65	65
TV Studios	65	65	65
Recording Studios	65	65	65
Category 2: Residences, hotels, sleeping areas	72	75	80
Auditoriums	72	80	80
Theaters	72	80	80
Category 3: Institutional with primarily daytime use only	75	78	83

[Home \(/\)](#) > [Programs \(/programs/\)](#) > [Environmental Review \(/programs/environmental-review/\)](#) > DNL Calculator

DNL Calculator

WARNING: HUD recommends the use of Microsoft Internet Explorer for performing noise calculations. The HUD Noise Calculator has an error when using Google Chrome unless the cache is cleared before each use of the calculator. HUD is aware of the problem and working to fix it in the programming of the calculator.

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the [Day/Night Noise Level Calculator Electronic Assessment Tool Overview \(/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/\)](#).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	5100 Long Beach Boulevard - Existing
Record Date	9/24/2018
User's Name	Rincon Consultants, Inc.

Road # 1 Name:	Long Beach Boulevard
-----------------------	-----------------------------

Road #1

Vehicle Type	Cars ☒	Medium Trucks ☒	Heavy Trucks ☒
Effective Distance	45	45	45
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	23765	490	245
Night Fraction of ADT	10	3	2
Road Gradient (%)			2
Vehicle DNL	67.8301	59.2232	66.3265
Calculate Road #1 DNL	70.4565	Reset	

Add Road Source	Add Rail Source
Airport Noise Level	
Loud Impulse Sounds?	☐ Yes ☐ No

Combined DNL for all Road and Rail sources	0
Combined DNL including Airport	
Site DNL with Loud Impulse Sound	

Calculate

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative:** Cancel the project at this location
- **Other Reasonable Alternatives:** Choose an alternate site
- **Mitigation**
 - **Contact your Field or Regional Environmental Officer** (</programs/environmental-review/hud-environmental-staff-contacts/>)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
 - Incorporate natural or man-made barriers. See *The Noise Guidebook* (</resource/313/hud-noise-guidebook/>)
 - Construct noise barrier. See the **Barrier Performance Module** (</programs/environmental-review/bpm-calculator/>)

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (</resource/3822/day-night-noise-level-assessment-tool-user-guide/>)

Day/Night Noise Level Assessment Tool Flowcharts (</resource/3823/day-night-noise-level-assessment-tool-flowcharts/>)

DNL Calculator

WARNING: HUD recommends the use of Microsoft Internet Explorer for performing noise calculations. The HUD Noise Calculator has an error when using Google Chrome unless the cache is cleared before each use of the calculator. HUD is aware of the problem and working to fix it in the programming of the calculator.

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the [Day/Night Noise Level Calculator Electronic Assessment Tool Overview \(/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/\)](#).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	5100 Long Beach Boulevard - Existing plus Project
Record Date	3/27/2020
User's Name	Rincon Consultants, Inc.

Road # 1 Name:	Long Beach Boulevard
----------------	----------------------

Road #1

Vehicle Type	Cars ☒	Medium Trucks ☒	Heavy Trucks ☒
Effective Distance	45	45	45
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	23986	490	245
Night Fraction of ADT	10	3	2
Road Gradient (%)			2
Vehicle DNL	67.8703	59.2232	66.3265
Calculate Road #1 DNL	70.4819	Reset	

Add Road Source	Add Rail Source
-----------------	-----------------

Airport Noise Level	
---------------------	--

Loud Impulse Sounds?

☐Yes ☐No

Combined DNL for all Road and Rail sources	0
Combined DNL including Airport	
Site DNL with Loud Impulse Sound	

Calculate

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative:** Cancel the project at this location
- **Other Reasonable Alternatives:** Choose an alternate site
- **Mitigation**
 - **Contact your Field or Regional Environmental Officer** (</programs/environmental-review/hud-environmental-staff-contacts/>)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
 - Incorporate natural or man-made barriers. See *The Noise Guidebook* (</resource/313/hud-noise-guidebook/>)
 - Construct noise barrier. See the **Barrier Performance Module** (</programs/environmental-review/bpm-calculator/>)

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (</resource/3822/day-night-noise-level-assessment-tool-user-guide/>)

Day/Night Noise Level Assessment Tool Flowcharts (</resource/3823/day-night-noise-level-assessment-tool-flowcharts/>)

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/21/2019
Case Description: Demolition

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec	Actual		
			Lmax (dBA)	Lmax (dBA)		
Tractor	No	40	84.0		50.0	0.0
Tractor	No	40	84.0		50.0	0.0
Tractor	No	40	84.0		50.0	0.0
Concrete Saw	No	20		89.6	50.0	0.0
Dozer	No	40		81.7	50.0	0.0

Results

[illegible]

	Total	89.6	87.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84.0		85.0	0.0
Tractor	No	40	84.0		85.0	0.0
Tractor	No	40	84.0		85.0	0.0
Concrete Saw	No	20		89.6	85.0	0.0
Dozer	No	40		81.7	85.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Noise Level Data									
Night		Calculated (dBA)			Day		Evening		
Equipment		Lmax			Leq		Lmax		
Leq		Lmax			Leq		Lmax		
Tractor		79.4			75.4		N/A		
N/A		N/A			N/A		N/A		
Tractor		79.4			75.4		N/A		
N/A		N/A			N/A		N/A		
Tractor		79.4			75.4		N/A		
N/A		N/A			N/A		N/A		
Concrete Saw		85.0			78.0		N/A		
N/A		N/A			N/A		N/A		
Dozer		77.1			73.1		N/A		
N/A		N/A			N/A		N/A		
Total		85.0			82.7		N/A		
N/A		N/A			N/A		N/A		

**** Receptor #3 ****

Description -----	Land Use -----	Baselines (dBA)		
		Daytime -----	Evening -----	Night -----
Dooley Elementary School	Residential	65.0	65.0	65.0

Equipment -----						
Description -----	Impact Device -----	Usage (%) -----	Spec Lmax (dBA) -----	Actual Lmax (dBA) -----	Receptor Distance (feet) -----	Estimated Shielding (dBA) -----
Tractor	No	40	84.0		150.0	0.0
Tractor	No	40	84.0		150.0	0.0
Tractor	No	40	84.0		150.0	0.0
Concrete Saw	No	20		89.6	150.0	0.0
Dozer	No	40		81.7	150.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

----- -----									
Night -----		Calculated (dBA)			Day Night -----		Evening -----		
		Day -----	Evening -----		-----		-----		
Equipment Leq -----	Lmax -----	Leq -----	Lmax -----	Leq -----	Lmax -----	Leq -----	Lmax -----	Leq -----	Lmax -----
Tractor			74.5	70.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			74.5	70.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			74.5	70.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw			80.0	73.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			72.1	68.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			80.0	77.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

SP and G
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 09/21/2018
Case Description: Site Preparation/Grading

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		50.0	0.0
Tractor	No	40	84.0		50.0	0.0
Dozer	No	40		81.7	50.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				

Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				
			-----		-----		-----		
Equipment	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Grader			85.0	81.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			84.0	80.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			81.7	77.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	85.0	84.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

SP and G

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		

Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				

Equipment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq			

Grader			80.4	76.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			79.4	75.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			77.1	73.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			80.4	80.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #3 ****

Description		Land Use		Baselines (dBA)		
				Daytime	Evening	Night
Dooley Elementary School		Residential		65.0	65.0	65.0

Equipment						

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Grader	No	40	85.0		150.0	0.0
Tractor	No	40	84.0		150.0	0.0
Dozer	No	40		81.7	150.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		

Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				

Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax

Grader			75.5	71.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			74.5	70.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Dozer			72.1	68.1	SP and G	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	75.5	75.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Del Amo Gardens (retirement)	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85.0		350.0	0.0
Tractor	No	40	84.0		350.0	0.0
Dozer	No	40		81.7	350.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				

Night	Day		Calculated (dBA)		Day		Evening		
			Evening		Night				

Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq									

Grader			68.1	64.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.1	63.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			64.8	60.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.1	67.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

BC
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 09/21/2018
Case Description: Building Construction

**** Receptor #1 ****

Description -----	Land Use -----	Baselines (dBA)			Night -----	
		Daytime -----	Evening -----			
Single-Family Residences	Residential	65.0	65.0	65.0		
	Equipment -----					
Estimated		Spec	Actual	Receptor		
	Impact	Usage	Lmax	Lmax	Distance	
Shielding Description -----	Device -----	(%) -----	(dBA) -----	(dBA) -----	(feet) -----	(dBA)
Generator 0.0	No	50		80.6	50.0	
Crane 0.0	No	16		80.6	50.0	
All Other Equipment > 5 HP 0.0	No	50	85.0		50.0	
Tractor 0.0	No	40	84.0		50.0	
Welder / Torch 0.0	No	40		74.0	50.0	
Welder / Torch 0.0	No	40		74.0	50.0	
Welder / Torch 0.0	No	40		74.0	50.0	

Results

Noise Limit Exceedance (dBA)						Noise Limits (dBA)			

Night		Day	Calculated (dBA) Evening			Day Night		Evening	

Equipment				Lmax	Leq		Lmax	Leq	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq

Generator				80.6	77.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane				80.6	72.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP				85.0	82.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor				84.0	80.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch				74.0	70.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch				74.0	70.0	N/A	N/A	N/A	N/A

N/A	N/A	N/A	N/A	N/A	BC	N/A	N/A	N/A	N/A
Welder / Torch				74.0	70.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total		85.0	85.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		Night	
		Daytime	Evening		
Single-Family Residences	Residential	65.0	65.0	65.0	
Equipment					
Estimated		Spec	Actual	Receptor	
Shielding	Impact	Usage	Lmax	Lmax	Distance
Description	Device	(%)	(dBA)	(dBA)	(feet)
-----	-----	-----	-----	-----	(dBA)
Generator	No	50		80.6	85.0
0.0					
Crane	No	16		80.6	85.0
0.0					
All Other Equipment > 5 HP	No	50	85.0		85.0
0.0					
Tractor	No	40	84.0		85.0
0.0					
Welder / Torch	No	40		74.0	85.0
0.0					
Welder / Torch	No	40		74.0	85.0
0.0					
Welder / Torch	No	40		74.0	85.0
0.0					

Results

Noise Limit Exceedance (dBA)						Noise Limits (dBA)				

Night		Day	Calculated (dBA) Evening			Day Night		Evening		

Equipment				Lmax	Leq		Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	

Generator				76.0	73.0	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Crane				75.9	68.0	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP				80.4	77.4	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor				79.4	75.4	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Welder / Torch				69.4	65.4	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

N/A	N/A	N/A	N/A	N/A	BC	N/A	N/A	N/A	N/A
Welder / Torch				64.5	60.5	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch				64.5	60.5	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total		75.5	76.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Del Amo Gardens (retirement)	Residential	65.0	65.0	65.0

Estimated Shielding Description	Equipment		Spec	Actual	Receptor	(dBA)
	Impact	Usage	Lmax	Lmax	Distance	
-----	Device	(%)	(dBA)	(dBA)	(feet)	
Generator	No	50		80.6	350.0	
0.0						
Crane	No	16		80.6	350.0	
0.0						
All Other Equipment > 5 HP	No	50	85.0		350.0	
0.0						
Tractor	No	40	84.0		350.0	
0.0						
Welder / Torch	No	40		74.0	350.0	
0.0						
Welder / Torch	No	40		74.0	350.0	
0.0						
Welder / Torch	No	40		74.0	350.0	
0.0						

Results

Noise Limit Exceedance (dBA)						Noise Limits (dBA)			
Night		Day		Calculated (dBA) Evening		Day Night		Evening	
Equipment									
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator				63.7	60.7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane				63.6	55.7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP				68.1	65.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor				67.1	63.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

						BC			
Welder / Torch				57.1	53.1	N/A	N/A	N/A	N/A
N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch				57.1	53.1	N/A	N/A	N/A	N/A
N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch				57.1	53.1	N/A	N/A	N/A	N/A
N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total				68.1	68.7	N/A	N/A	N/A	N/A
N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

P
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 09/21/2018
Case Description: Site Preparation/Grading

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	50.0	0.0
Paver	No	50		77.2	50.0	0.0
Roller	No	20		80.0	50.0	0.0
Tractor	No	40	84.0		50.0	0.0
Pavement Scarafier	No	20		89.5	50.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				

Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				

Equipment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq			

Concrete Mixer Truck			78.8	74.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Paver			77.2	74.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Roller			80.0	73.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			84.0	80.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Pavement Scarafier			89.5	82.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Total			89.5	85.5	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment

Spec Actual Receptor Estimated
Page 1

Description	Impact Device	Usage (%)	P Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Paver	No	50		77.2	85.0	0.0
Roller	No	20		80.0	85.0	0.0
Tractor	No	40	84.0		85.0	0.0
Pavement Scarafier	No	20		89.5	85.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night		Calculated (dBA)			Day		Evening		Night		Evening	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck	N/A	N/A	N/A	74.2	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	N/A	72.6	69.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	N/A	75.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	N/A	N/A	N/A	84.9	77.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		N/A	N/A	84.9	80.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Dooley Elementary School	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	150.0	0.0
Paver	No	50		77.2	150.0	0.0
Roller	No	20		80.0	150.0	0.0
Tractor	No	40	84.0		150.0	0.0
Pavement Scarafier	No	20		89.5	150.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

P

		Calculated (dBA)			Day		Evening		
Night		Day		Evening		Night		Evening	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	N/A	N/A	N/A	69.3	65.3	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	N/A	67.7	64.7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	N/A	70.5	63.5	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	N/A	N/A	N/A	74.5	70.5	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	N/A	N/A	N/A	80.0	73.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	N/A	80.0	76.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

		Baselines (dBA)		
Description		Land Use	Daytime	Evening
Del Amo Gardens (retirement)		Residential	65.0	65.0

		Equipment				
Description		Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Concrete Mixer Truck		No	40		78.8	350.0
Paver		No	50		77.2	350.0
Roller		No	20		80.0	350.0
Tractor		No	40	84.0		350.0
Pavement Scarafier		No	20		89.5	350.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

		Calculated (dBA)			Day		Evening		
Night		Day		Evening		Night		Evening	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	N/A	N/A	N/A	61.9	57.9	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	N/A	N/A	N/A	60.3	57.3	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	N/A	63.1	56.1	N/A	N/A	N/A	N/A

					P					
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			67.1	63.1		N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement	Scarafier		72.6	65.6		N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	72.6	68.6		N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

AC
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 09/21/2018
Case Description: Architectural Coating

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	50.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				

Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				

Equipment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq			

Compressor (air)			77.7	73.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Total			77.7	73.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Single-Family Residences	Residential	65.0	65.0	65.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	85.0	0.0

Results

Noise Limit Exceedance (dBA)	Noise Limits (dBA)

AC									
Night		Day	Calculated (dBA)		Day	Evening		Night	
Equipment			Lmax		Lmax		Lmax		Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)			73.1	69.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	73.1	69.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description		Land Use		Baselines (dBA)		Night	
				Daytime	Evening		
Dooley Elementary School		Residential		65.0	65.0	65.0	
		Equipment					
Description		Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)		No	40		77.7	150.0	0.0

Results

Noise Limit Exceedance (dBA)									
Noise Limits (dBA)									
Night		Day	Calculated (dBA)		Day	Evening		Night	
Equipment			Lmax		Lmax		Lmax		Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)			68.1	64.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68.1	64.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

Description		Land Use		Baselines (dBA)		Night	
				Daytime	Evening		
Del Amo Gardens (retirement)		Residential		65.0	65.0	65.0	
		Equipment					
Description		Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Compressor (air)	No	40	AC	77.7	350.0	0.0
------------------	----	----	----	------	-------	-----

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
-----					-----				
Night		Day	Calculated (dBA)		Day	Evening			
			Evening		Night				
-----		-----	-----		-----	-----		-----	
Equipment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
-----		-----	-----		-----		-----		-----
Compressor (air)			60.8	56.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			60.8	56.8	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A