

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust				6.1003	0.0000	6.1003	3.3193	0.0000	3.3193	3.3193			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974	1.2856	1.2856	1.2856			2,936.806	0.9292		2,960.036
Total	2.5805	28.3480	16.2934	0.0297	6.1003	1.3974	7.4976	1.2856	1.2856	4.6048			2,936.806	0.9292		2,960.036
lb/day																

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
Hauling	0.0771	3.5068	0.4217	0.0106	0.2402	0.0127	0.2528	0.0658	0.0121	0.0780			1,120.134	0.0696		1,121.874
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
Worker	0.0681	0.0393	0.5163	1.2900e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340			128.5653	3.6700e-003		128.6570
Total	0.1452	3.5460	0.9380	0.0119	0.3657	0.0135	0.3791	0.0991	0.0129	0.1120			1,248.699	0.0733		1,250.531
lb/day																

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					2.6079	0.0000	2.6079	1.4190	0.0000	1.4190			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	2.6079	1.3974	4.0052	1.4190	1.2856	2.7046	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361

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	0.0771	3.5068	0.4217	0.0106	0.2293	0.0127	0.2420	0.0632	0.0121	0.0753		1,120.1341	1,120.1341	0.0696		1,121.8740
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	0.0681	0.0393	0.5163	1.2900e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		128.5653	128.5653	3.6700e-003		128.6570
Total	0.1452	3.5460	0.9380	0.0119	0.3482	0.0135	0.3617	0.0948	0.0129	0.1077		1,248.6994	1,248.6994	0.0733		1,250.5310

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0681	0.0393	0.5163	1.2900e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		128.5653	128.5653	3.6700e-003		128.6570
Total	0.0681	0.0393	0.5163	1.2900e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		128.5653	128.5653	3.6700e-003		128.6570

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0681	0.0393	0.5163	1.2900e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		128.5653	128.5653	3.6700e-003		128.6570
Total	0.0681	0.0393	0.5163	1.2900e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		128.5653	128.5653	3.6700e-003		128.6570

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Avenue 48, City of Coachella - Riverside-Salton Sea County, Winter

**Avenue 48, City of Coachella
Riverside-Salton Sea County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Approximate site area. Project is a roadway widening.
- Construction Phase - Anticipated construction schedule.
- Off-road Equipment - Anticipated equipment.
- Off-road Equipment -
- Off-road Equipment -
- Demolition - 450 Tons Demo per County.
- Grading - 7,250 CY Earthwork.
- Vehicle Trips - Construction only run.
- Construction Off-road Equipment Mitigation - Per Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	66.00
tblConstructionPhase	NumDays	18.00	44.00
tblGrading	AcresOfGrading	33.00	4.00
tblGrading	MaterialImported	0.00	7,250.00
tblLandUse	LandUseSquareFeet	0.00	217,800.00
tblLandUse	LotAcreage	0.00	5.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.5901	36.3397	22.5564	0.0415	6.4659	1.7976	7.8770	3.4184	1.6722	4.7170	0.0000	4,144.5653	4,144.5653	1.0761	0.0000	4,169.7800
Maximum	3.5901	36.3397	22.5564	0.0415	6.4659	1.7976	7.8770	3.4184	1.6722	4.7170	0.0000	4,144.5653	4,144.5653	1.0761	0.0000	4,169.7800

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					
2019	3.5901	36.3397	22.5564	0.0415	2.9561	1.7976	4.3672	1.5138	1.6722	2.8125	0.0000	4,144.5653	4,144.5653	1.0761	0.0000	4,169.7800
Maximum	3.5901	36.3397	22.5564	0.0415	2.9561	1.7976	4.3672	1.5138	1.6722	2.8125	0.0000	4,144.5653	4,144.5653	1.0761	0.0000	4,169.7800

	ROG	NOx	CO	SO2	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	54.28	0.00	44.56	55.72	0.00	40.38	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0439	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	6.0439	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000	0.0000	1.1700e-003

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/30/2019	5	22	
2	Grading	Grading	1/31/2019	5/2/2019	5	66	
3	Paving	Paving	5/3/2019	7/3/2019	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	44.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	906.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.4404	0.0000	0.4404	0.0667	0.0000	0.0667			0.0000				0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618			3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.4404	1.7949	2.2353	0.0667	1.6697	1.7364		3,816.8994	3,816.8994	1.0618			3,843.4451

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0118	0.5161	0.0722	1.5000e-003	0.0350	1.8800e-003	0.0369	9.5900e-003	1.8000e-003	0.0114		159.1512	159.1512	0.0111			159.4288
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	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003			115.4826
Total	0.0768	0.5567	0.4963	2.6600e-003	0.1605	2.6800e-003	0.1632	0.0429	2.5400e-003	0.0454		274.5535	274.5535	0.0143			274.9114

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1883	0.0000	0.1883	0.0285	0.0000	0.0285			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388	0.1883	1.7949	1.9832	0.0285	1.6697	1.6982	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0118	0.5161	0.0722	1.5000e-003	0.0334	1.8800e-003	0.0353	9.2000e-003	1.8000e-003	0.0110		159.1512	159.1512	0.0111		159.4288
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	0.0650	0.0407	0.4241	1.1600e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		115.4022	115.4022	3.2100e-003		115.4826
Total	0.0768	0.5567	0.4963	2.6600e-003	0.1524	2.6800e-003	0.1550	0.0409	2.5400e-003	0.0434		274.5535	274.5535	0.0143		274.9114

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.1003	0.0000	6.1003	3.3193	0.0000	3.3193			0.0000				0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292			2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	6.1003	1.3974	7.4976	3.3193	1.2856	4.6048		2,936.8068	2,936.8068	0.9292			2,960.0361

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	0.0811	3.5421	0.4958	0.0103	0.2402	0.0129	0.2531	0.0658	0.0123	0.0782		1,092.3562	1,092.3562	0.0762			1,094.2612
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	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003			115.4826
Total	0.1460	3.5828	0.9199	0.0115	0.3657	0.0137	0.3794	0.0991	0.0131	0.1122		1,207.7585	1,207.7585	0.0794			1,209.7438

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					2.6079	0.0000	2.6079	1.4190	0.0000	1.4190			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	2.6079	1.3974	4.0052	1.4190	1.2856	2.7046	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361

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	0.0811	3.5421	0.4958	0.0103	0.2293	0.0129	0.2422	0.0632	0.0123	0.0755		1,092.3562	1,092.3562	0.0762		1,094.2612
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	0.0650	0.0407	0.4241	1.1600e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		115.4022	115.4022	3.2100e-003		115.4826
Total	0.1460	3.5828	0.9199	0.0115	0.3482	0.0137	0.3619	0.0948	0.0131	0.1079		1,207.7585	1,207.7585	0.0794		1,209.7438

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003		115.4826
Total	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003		115.4826

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0650	0.0407	0.4241	1.1600e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		115.4022	115.4022	3.2100e-003		115.4826
Total	0.0650	0.0407	0.4241	1.1600e-003	0.1190	8.0000e-004	0.1198	0.0317	7.4000e-004	0.0324		115.4022	115.4022	3.2100e-003		115.4826

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6609					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	6.0439	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Avenue 48, City of Coachella - Riverside-Salton Sea County, Annual

**Avenue 48, City of Coachella
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Approximate site area. Project is a roadway widening.

Construction Phase - Anticipated construction schedule.

Off-road Equipment - Anticipated equipment.

Off-road Equipment -

Off-road Equipment -

Demolition - 450 Tons Demo per County.

Grading - 7,250 CY Earthwork.

Vehicle Trips - Construction only run.

Construction Off-road Equipment Mitigation - Per Rule 403.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	8.00	66.00
tblConstructionPhase	NumDays	18.00	44.00
tblGrading	AcresOfGrading	33.00	4.00
tblGrading	MaterialImported	0.00	7,250.00
tblLandUse	LandUseSquareFeet	0.00	217,800.00
tblLandUse	LotAcreage	0.00	5.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1625	1.7916	1.1481	2.3500e-003	0.2225	0.0845	0.3070	0.1147	0.0780	0.1926	0.0000	212.9361	212.9361	0.0551	0.0000	214.3146
Maximum	0.1625	1.7916	1.1481	2.3500e-003	0.2225	0.0845	0.3070	0.1147	0.0780	0.1926	0.0000	212.9361	212.9361	0.0551	0.0000	214.3146

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					
2019	0.1625	1.7916	1.1481	2.3500e-003	0.1037	0.0845	0.1882	0.0514	0.0780	0.1293	0.0000	212.9359	212.9359	0.0551	0.0000	214.3144
Maximum	0.1625	1.7916	1.1481	2.3500e-003	0.1037	0.0845	0.1882	0.0514	0.0780	0.1293	0.0000	212.9359	212.9359	0.0551	0.0000	214.3144

	ROG	NOx	CO	SO2	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	53.40	0.00	38.71	55.21	0.00	32.87	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	11-1-2018	1-31-2019	0.4402	0.4402
2	2-1-2019	4-30-2019	1.1012	1.1012
3	5-1-2019	7-31-2019	0.3969	0.3969
		Highest	1.1012	1.1012

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1030	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1030	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/30/2019	5	22	
2	Grading	Grading	1/31/2019	5/2/2019	5	66	
3	Paving	Paving	5/3/2019	7/3/2019	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	44.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	906.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8400e-003	0.0000	4.8400e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0387	0.3936	0.2427	4.3000e-004		0.0197	0.0197		0.0184	0.0184	0.0000	38.0890	38.0890	0.0106	0.0000	38.3539
Total	0.0387	0.3936	0.2427	4.3000e-004	4.8400e-003	0.0197	0.0246	7.3000e-004	0.0184	0.0191	0.0000	38.0890	38.0890	0.0106	0.0000	38.3539

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	5.7600e-003	7.3000e-004	2.0000e-005	3.8000e-004	2.0000e-005	4.0000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6116	1.6116	1.1000e-004	0.0000	1.6142
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	6.6000e-004	4.6000e-004	4.9000e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1811	1.1811	3.0000e-005	0.0000	1.1819
Total	7.9000e-004	6.2200e-003	5.6300e-003	3.0000e-005	1.7400e-003	3.0000e-005	1.7700e-003	4.6000e-004	3.0000e-005	4.9000e-004	0.0000	2.7927	2.7927	1.4000e-004	0.0000	2.7961

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0700e-003	0.0000	2.0700e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0387	0.3936	0.2427	4.3000e-004		0.0197	0.0197		0.0184	0.0184	0.0000	38.0889	38.0889	0.0106	0.0000	38.3538
Total	0.0387	0.3936	0.2427	4.3000e-004	2.0700e-003	0.0197	0.0218	3.1000e-004	0.0184	0.0187	0.0000	38.0889	38.0889	0.0106	0.0000	38.3538

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	5.7600e-003	7.3000e-004	2.0000e-005	3.6000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6116	1.6116	1.1000e-004	0.0000	1.6142
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	6.6000e-004	4.6000e-004	4.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1811	1.1811	3.0000e-005	0.0000	1.1819
Total	7.9000e-004	6.2200e-003	5.6300e-003	3.0000e-005	1.6500e-003	3.0000e-005	1.6800e-003	4.4000e-004	3.0000e-005	4.7000e-004	0.0000	2.7927	2.7927	1.4000e-004	0.0000	2.7961

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2013	0.0000	0.2013	0.1095	0.0000	0.1095	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0852	0.9355	0.5377	9.8000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	87.9195	87.9195	0.0278	0.0000	88.6149
Total	0.0852	0.9355	0.5377	9.8000e-004	0.2013	0.0461	0.2474	0.1095	0.0424	0.1520	0.0000	87.9195	87.9195	0.0278	0.0000	88.6149

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.1186	0.0150	3.4000e-004	7.8100e-003	4.2000e-004	8.2300e-003	2.1400e-003	4.0000e-004	2.5500e-003	0.0000	33.1843	33.1843	2.1700e-003	0.0000	33.2385
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	1.9900e-003	1.3900e-003	0.0147	4.0000e-005	4.0700e-003	3.0000e-005	4.1000e-003	1.0800e-003	2.0000e-005	1.1100e-003	0.0000	3.5432	3.5432	1.0000e-004	0.0000	3.5457
Total	4.5900e-003	0.1200	0.0297	3.8000e-004	0.0119	4.5000e-004	0.0123	3.2200e-003	4.2000e-004	3.6600e-003	0.0000	36.7275	36.7275	2.2700e-003	0.0000	36.7842

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					0.0861	0.0000	0.0861	0.0468	0.0000	0.0468	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0852	0.9355	0.5377	9.8000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	87.9194	87.9194	0.0278	0.0000	88.6148
Total	0.0852	0.9355	0.5377	9.8000e-004	0.0861	0.0461	0.1322	0.0468	0.0424	0.0893	0.0000	87.9194	87.9194	0.0278	0.0000	88.6148

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-003	0.1186	0.0150	3.4000e-004	7.4600e-003	4.2000e-004	7.8800e-003	2.0600e-003	4.0000e-004	2.4600e-003	0.0000	33.1843	33.1843	2.1700e-003	0.0000	33.2385
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	1.9900e-003	1.3900e-003	0.0147	4.0000e-005	3.8600e-003	3.0000e-005	3.8900e-003	1.0300e-003	2.0000e-005	1.0500e-003	0.0000	3.5432	3.5432	1.0000e-004	0.0000	3.5457
Total	4.5900e-003	0.1200	0.0297	3.8000e-004	0.0113	4.5000e-004	0.0118	3.0900e-003	4.2000e-004	3.5100e-003	0.0000	36.7275	36.7275	2.2700e-003	0.0000	36.7842

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.3354	0.3226	5.0000e-004		0.0181	0.0181		0.0167	0.0167	0.0000	45.0454	45.0454	0.0143	0.0000	45.4017
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0320	0.3354	0.3226	5.0000e-004		0.0181	0.0181		0.0167	0.0167	0.0000	45.0454	45.0454	0.0143	0.0000	45.4017

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	1.3300e-003	9.2000e-004	9.8000e-003	3.0000e-005	2.7100e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.3621	2.3621	7.0000e-005	0.0000	2.3638
Total	1.3300e-003	9.2000e-004	9.8000e-003	3.0000e-005	2.7100e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.3621	2.3621	7.0000e-005	0.0000	2.3638

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	0.0320	0.3354	0.3226	5.0000e-004		0.0181	0.0181		0.0167	0.0167	0.0000	45.0454	45.0454	0.0143	0.0000	45.4016
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0320	0.3354	0.3226	5.0000e-004		0.0181	0.0181		0.0167	0.0167	0.0000	45.0454	45.0454	0.0143	0.0000	45.4016

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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	0.2524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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	0.2524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	1.1030	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Operational Emissions Calculations

Avenue 48 Roadway Segment	Total ADT	Percent Trucks	Truck ADT
Existing Conditions (2017)			
Van Buren Street to Dillon Road	11,893	3.80%	452
Dillon Road to Grapefruit Blvd./Indio Blvd.	12,205	3.80%	464
Total	24,098	--	916
Opening Year (2019)			
Van Buren Street to Dillon Road	12,272	3.80%	466
Dillon Road to Grapefruit Blvd./Indio Blvd.	12,739	3.80%	484
Total	25,011	--	950
2038 Without Project			
Van Buren Street to Dillon Road	22,780	1.90%	433
Dillon Road to Grapefruit Blvd./Indio Blvd.	35,458	5.90%	2,092
Total	58,238	--	2,525
2038 With Project			
Van Buren Street to Dillon Road	29,403	1.80%	529
Dillon Road to Grapefruit Blvd./Indio Blvd.	41,140	5.20%	2,139
Total	70,543	--	2,669

Daily VMT	2017	2019	2038 Without	2038 With
Van Buren Street to Dillon Road	3,568	3,682	6,834	8,821
Dillon Road to Grapefruit Blvd./Indio Blvd.	1,221	1,274	3,546	4,114
Total	4,788	4,956	10,380	12,935

Ave 48 Mobile Emissions (grams)	ROG	CO	NOX	CO2	PM10	PM2.5	PM10TW	PM10BW	PM2.5 TW	PM2.5 BW	SOX
Existing (2017)	271.0824905	7728.884544	2570.902722	2031124.751	23.63535316	22.40582332	52.98605767	211.9076573	13.24651442	90.81756743	24.13790568
Opening Year (2019)	237.8797352	6842.561124	2181.100163	2018809.299	19.07501151	18.02954405	54.83510333	219.3025637	13.70877583	93.98681301	24.98024217
2038 Without Project	413.5779335	8675.708563	1520.580209	3373085.502	13.23416699	12.30877824	115.545141	453.81151	28.88628524	194.4906472	37.04375314
2038 With Project	515.3846136	10811.32803	1894.887468	4203406.969	16.49190029	15.33871709	143.9878267	565.52212	35.99695668	242.3666229	46.1624735

Ave 48 Mobile Emissions (pounds)	ROG	CO	NOX	CO2	PM10	PM2.5	PM10TW	PM10BW	PM2.5 TW	PM2.5 BW	SOX
Existing (2017)	0.60	17.04	5.67	4,477.86	0.05	0.05	0.12	0.47	0.03	0.20	0.05
Opening Year (2019)	0.52	15.09	4.81	4,450.71	0.04	0.04	0.12	0.48	0.03	0.21	0.06
2038 Without Project	0.91	19.13	3.35	7,436.38	0.03	0.03	0.25	1.00	0.06	0.43	0.08
2038 With Project	1.14	23.83	4.18	9,266.93	0.04	0.03	0.32	1.25	0.08	0.53	0.10

Metric Tons	
Existing (2017)	741.36
Opening Year (2019)	736.87
2038 Without Project	1231.18
2038 With Project	1534.24

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APPENDIX B

**SPECIAL-STATUS SPECIES AND THEIR
POTENTIAL TO OCCUR WITHIN THE SURVEY AREA**

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Table B-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
SPECIAL-STATUS WILDLIFE SPECIES				
<i>Athene cunicularia</i> burrowing owl	Fed: None CA: SSC CVMSHCP: Covered	Common yearlong resident of southern California. Prefers open, annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Requires fossorial burrows for roosting and nesting surrounded by relatively short vegetation and open habitat for foraging and watching for predators. Also known to occupy man-made structures including drain pipes, debris piles, and development pads.	No	Presumed Absent There is no suitable habitat or burrows (i.e., burrows >4 inches in diameter) within the survey area. Habitat within the survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for burrowing owl. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 0.5 miles west of the survey area (CNDDDB 2003).
<i>Buteo regalis</i> ferruginous hawk	Fed: None CA: WL CVMSHCP: Not Covered	Common winter resident of grasslands and agricultural areas in southwestern California. Frequents open grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, and fringes of pinyon-juniper habitats. Does not breed in California.	No	Presumed Absent This species does not nest in California. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable foraging or roosting habitat for ferruginous hawks during winter. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 2.5 miles northeast of the survey area (CNDDDB 2016).
<i>Eumops perotis californicus</i> western mastiff bat	Fed: None CA: SSC CVMSHCP: Not Covered	Primarily a cliff-dwelling species, roost generally under exfoliating rock slabs. Roosts are generally high above the ground, usually allowing a clear vertical drop of at least 3 meters below the entrance for flight. In California, it is most frequently encountered in broad open areas. Its foraging habitat includes dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, and agricultural areas.	No	Presumed Absent The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable roosting habitat (i.e., cliffs, caves, bridges) for western mastiff bat. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.4 miles southeast of the survey area (CNDDDB 1939).
<i>Lasiurus xanthinus</i> western yellow bat	Fed: None CA: SSC CVMSHCP: Covered	Uncommon in California, known only in Los Angeles and San Bernardino Counties. Occurs in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. Prefers to roost and feed in, and near, palm oases and riparian habitats.	No	Presumed Absent The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable roosting habitat (i.e., palm trees, riparian habitat) for western yellow bat. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.4 miles southeast of the survey area (CNDDDB 1981).

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
<i>Macrobaenetes valgum</i> Coachella giant sand treader cricket	Fed: None CA: None CVMSHCP: Covered	Depends on the active dunes and ephemeral sand fields at the west end of the Coachella Valley. In wind-blown environments, habitats are dominated by creosote bush (<i>Larrea tridentata</i>), burroweed (<i>Ambrosia dumosa</i>), honey mesquite (<i>Prosopis glandulosa</i>), Mormon tea (<i>Ephedra nevadensis</i>), desert willow (<i>Chilopsis linearis</i>), and sandpaper bush (<i>Petalonyx nitidus</i>).	No	Presumed Absent There are no active dunes or sand fields within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Coachella giant sand treader cricket. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 4.4 miles west of the survey area (CNDDDB Unknown Date).
<i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse	Fed: None CA: SSC CVMSHCP: Covered	Known from various vegetation communities, including creosote scrub, desert scrub, and grasslands, generally occurring on loosely packed or sandy soils with sparse to moderately dense vegetative cover. No longer occur on the valley floor from Palm Springs to the Salton Sea in areas developed for urban and agricultural land uses.	No	Presumed Absent There is no suitable habitat or areas with loose sandy soils within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Palm Springs pocket mouse. Further, the species no longer occurs on the valley floor from Palm Springs to the Salton Sea in areas that have been developed for urban and agricultural land uses. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 4.4 miles east of the survey area (CNDDDB 2001).
<i>Phrynosoma mcallii</i> flat-tailed horned lizard	Fed: None CA: SSC CVMSHCP: Covered	Typical habitat is sandy desert hardpan or gravel flats with scattered sparse vegetation of low species diversity. Most common in areas with high density of harvester ants and fine wind-blown sand, but do not normally occur in habitats characterized as marshes and tamarisk arrowweed thickets, and agricultural and developed areas.	No	Presumed Absent There is no suitable habitat or areas with fine wind-blown sand within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments. Further, the survey area is located outside of the current distribution of flat-tailed horned lizard. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 2.7 miles north of the survey area (CNDDDB 1997).
<i>Poliopitila melanura</i> black-tailed gnatcatcher	Fed: None CA: WL CVMSHCP: Not Covered	In Mojave, Great Basin, Colorado and Sonoran Desert communities, prefers nesting and foraging in densely lined arroyos and washes dominated by creosote bush and salt bush (<i>Atriplex</i> sp.) with scattered bursage (<i>Ambrosia acanthicarpa</i>), burro weed, ocotillo (<i>Fouquieria splendens</i>), saguaro (<i>Carnegiea gigantea</i>), barrel cactus (<i>Ferocactus cylindraceus</i>), prickly pear cactus (<i>Optunia</i> sp.) and cholla (<i>Cylindropuntia acanthocarpa</i>).	No	Presumed Absent There is no suitable habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable foraging or nesting habitat for black-tailed gnatcatcher. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.4 miles southeast of the survey area (CNDDDB 1934).

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
<i>Pyrocephalus rubinus</i> vermilion flycatcher	Fed: None CA: SSC CVMSHCP: Not Covered	Occurs in a variety of open habitats including open woodland, clearings, desert scrub, savannah, agricultural land, golf courses, and recreational parks. The species tends to stay near water, often occurring in riparian vegetation characterized by cottonwoods (<i>Populus fremontii</i>), mesquite (<i>Prosopis</i> spp.), willows (<i>Salix</i> sp.), and sycamores (<i>Platanus</i> spp.).	No	Presumed Absent There is no suitable habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable woodland/riparian habitat for vermilion flycatcher. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 5.0 miles southeast of the survey area (CNDDDB 1948).
<i>Taxidea taxus</i> American badger	Fed: None CA: SSC CVMSHCP: Not Covered	Occupies a wide variety of habitats including dry, open grassland, sagebrush, and woodland habitats. Require dry, friable, often sandy soil to dig burrows for cover, food storage, and giving birth.	No	Presumed Absent There is no suitable habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for American badger. In addition, no American badgers, sign, or potential burrows were observed within the survey area during the field survey. In addition, the species was not observed during the field survey. There have been no specific locations for this species recorded by the CNDDDB.
<i>Toxostoma crissale</i> Crissal thrasher	Fed: None CA: SSC CVMSHCP: Covered	Common yearlong resident in southern California. Occupies arid habitats including desert washes, riparian brush, and mesquite thickets at lower elevations and dense scrub in arroyos at higher elevations. Occurs in areas dominated by mesquite hummocks and thickets with acacias (<i>Acacia</i> sp.), arrowweed (<i>Pulchea sericea</i>), and in desert saltbush scrub.	No	Presumed Absent There is no desert saltbush scrub, arrowweed scrub, riparian brush, or mesquite thicket habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable foraging or nesting habitat for Crissal thrasher. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.4 miles southeast of the survey area (CNDDDB 1941).
<i>Toxostoma lecontei</i> Le Conte's thrasher	Fed: None CA: SSC CVMSHCP: Covered	Common yearlong resident in southern California. Typically occurs in habitats consisting of sparsely vegetated desert flats, dunes, alluvial fans, or gently rolling hills having a high proportion of one or more species of saltbush and/or cholla. The ground is generally bare or with sparse patches of grasses and annuals forming low ground cover. Prefers thick, dense, and thorny shrubs or cholla for nesting.	No	Presumed Absent There are no dunes or alluvial fans with dense thorny shrubs within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable foraging or nesting habitat for Le Conte's thrasher. In addition, the species was not observed during the field survey. There have been no specific locations for this species recorded by the CNDDDB.

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
<i>Uma inornata</i> Coachella Valley fringe-toed lizard	Fed: THR CA: END CVMSHCP: Covered	Sparsely-vegetated arid areas with fine wind-blown sand, including dunes, washes, alkali scrub, and flats with sandy hummocks formed around the bases of vegetation. Requires fine, loose, wind-blown sand for burrowing.	No	Presumed Absent There is no dune habitat or areas with fine wind-blown sand within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Coachella Valley fringe-toed lizard. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.0 miles west of the survey area (CNDDDB 1975).
<i>Xerospermophilus tereticaudus chlorus</i> Palm Springs round-tailed ground squirrel	Fed: None CA: None CVMSHCP: Covered	Prefers open, flat, grassy areas in fine-textured, sandy soil. Habitats include mesquite- and creosote-dominated sand dunes, creosote bush scrub, creosote-palo verde, and saltbush/alkali scrub. Substrates include wind-blown sand, coarse sand, and packed silt with desert pavement.	No	Presumed Absent There no areas with fine-textured sandy soils, creosote bush scrub, saltbush scrub, or sand dune habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Palm Springs round-tailed ground squirrel. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.4 miles southeast of the survey area (CNDDDB 1938).
SPECIAL-STATUS PLANT SPECIES				
<i>Abronia villosa var. aurita</i> chaparral sand-verbena	Fed: None CA: None CNPS: 1B.1 CVMSHCP: Not Covered	Habitats include chaparral, coastal scrub, and desert dunes. Found at elevations ranging from 246 to 5,250 feet above mean sea level (msl). Blooming period is from January to September.	No	Presumed Absent There is no suitable chaparral, coastal scrub, or desert dune habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for chaparral sand-verbena. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 3.7 miles northwest of the survey area (CNPS 1949).
<i>Astragalus lentiginosus var. coachellae</i> Coachella Valley milk-vetch	Fed: END CA: None CNPS: 1B.2 CVMSHCP: Covered	Occurs in dunes and sandy flats along disturbed margins of sandy washes and in sandy soils along roadsides adjacent to existing sand dunes. May also occur in sandy substrates in creosote bush scrub. Found at elevations ranging from 130 to 2,150 feet above msl. Blooming period is February to May.	No	Presumed Absent There are no dunes, sandy flats, or washes within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Coachella Valley milk-vetch. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 2.6 miles northwest of the survey area (CNPS 1926).

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
<i>Astragalus preussii</i> var. <i>laxiflorus</i> Lancaster milk-vetch	Fed: None CA: None CNPS: 1B.1 CVMSHCP: Not Covered	Occurs on alkaline clay in flat, gravelly or sandy washes in chenopod scrub. Found at elevations ranging from 0 to 2,300 feet above msl. Blooming period is from March to May.	No	Presumed Absent There are no gravelly or sandy washes within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Lancaster milk-vetch. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 5.9 miles southwest of the survey area (CNPS 1928).
<i>Astragalus sabulorum</i> gravel milk-vetch	Fed: None CA: None CNPS: 2B.2 CVMSHCP: Not Covered	Associated with sandy, sometimes gravelly flats, washes, and roadsides. Habitats include desert dunes, Mojavean desert scrub, and Sonoran desert scrub. Found at elevations ranging from -200 to 3,050 feet above msl. Blooming period is from February to July.	No	Presumed Absent There is no dune, desert scrub, or wash habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for gravel milk-vetch. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.6 miles southeast of the survey area (CNPS 1937).
<i>Cryptantha costata</i> ribbed cryptantha	Fed: None CA: None CNPS: 4.3 CVMSHCP: Not Covered	Occurs on sandy soils in desert dunes, Mojavean desert scrub, and Sonoran desert scrub. Found at elevations ranging from -200 to 1,640 feet above msl. Blooming period is from February to May.	No	Presumed Absent There is no sandy soil, dune, or desert scrub habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for ribbed cryptantha. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.6 miles north of the survey area (CNPS 1995).
<i>Ditaxis claryana</i> glandular ditaxis	Fed: None CA: None CNPS: 2B.2 CVMSHCP: Not Covered	Occurs on sandy habitats in Mojavean desert scrub and Sonoran desert scrub. Found at elevations ranging from 0 to 1,525 feet above msl. Blooming period is from October to March.	No	Presumed Absent There is no sandy soil or desert scrub habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for glandular ditaxis. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 1.7 miles northwest of the survey area (CNPS 1906).
<i>Eschscholzia androuxii</i> Joshua Tree poppy	Fed: None CA: None CNPS: 4.3 CVMSHCP: Not Covered	Occurs on sandy, gravelly, and/or rocky desert washes, flats, and slopes in Joshua tree woodland and Mojavean desert scrub. Found at elevations ranging from 1,900 to 5,530 feet above msl. Blooming period is February to June.	No	Presumed Absent There is no Joshua tree woodland or desert scrub habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Joshua tree poppy. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 11.7 miles northwest of the survey area (CNPS 1926).

Scientific Name Common Name	Status	Habitat	Observed Onsite	Potential to Occur
<i>Mentzelia tridentata</i> creamy blazing star	Fed: None CA: None CNPS: 1B.3 CVMSHCP: Not Covered	Occurs on rocky, gravelly, and sandy soils within Mojavean desert scrub. Found at elevations ranging from 2,300 to 3,850 feet above msl. Blooming period is from March to May.	No	Presumed Absent There is no desert scrub habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for creamy blazing star. In addition, the species was not observed during the field survey. There have been no specific locations for this species recorded by the CNDDB or CNPS.
<i>Xylorhiza cognata</i> Mecca-aster	Fed: None CA: None CNPS: 1B.2 CVMSHCP: Covered	Occurs in Sonoran desert scrub within the Indio Hills and Mecca Hills. Found at elevations ranging from 65 to 1,310 feet above msl. Blooming period is from January to June.	No	Presumed Absent There is no desert scrub habitat within the survey area. The survey area is generally disturbed or comprised of existing roadways and developments and does not provide suitable habitat for Mecca-aster. In addition, the species was not observed during the field survey. The nearest recorded occurrence is approximately 4.6 miles east of the survey area (CNPS 2006).

U.S. Fish and Wildlife Service (Fed) - Federal
END - Federally Endangered
THR - Federally Threatened

California Department of Fish and Wildlife
(CA) - California
END - State Endangered
SSC - Species of Special Concern
WL - Watch List

California Native Plant Society (CNPS)
California Rare Plant Rank
1B Plants Rare, Threatened, or Endangered in California and Elsewhere
2B Plants Rare, Threatened, or Endangered in California, but More Common Elsewhere
4 Plants of Limited Distribution – A Watch List

Threat Ranks
0.1 - Seriously threatened in California
0.2 - Moderately threatened in California
0.3 - Not very threatened in California

APPENDIX C
RESULTS OF CULTURAL RESOURCES RECORDS SEARCH

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Table C-1 Previous Cultural Studies Within One-Mile Radius Of The Project Area

EIC DOCUME NT #	DATE	AUTHOR(S)	TITLE
RI-00675	1979	Joan Oxendine	Archaeology Phase I Survey Report: Proposed Widening and Signalization at the Intersections of Highway 86, Highway 111 and Avenue 48, PM 21.5, 11209-910053-56111; Highway 111 and Avenue 50, Including the Strip along Avenue 50 Between Highway 111 and Avenue 52, PM 27.0, 11209-910065-56111, in Riverside County.
RI-01101	1980	Stanley Berryman	Results of an Archaeological Survey of the Indian Palms Country Club, Indio, California.
RI-01102	1998	Bruce Love	Cultural Resources Report: Indian Palms Country Club, City of Indio, Riverside County, California
RI-01319	1998	Paul G. Chace	An Archaeological Resources Survey for the Valley Sanitary District Wetlands project, City of Indio, Riverside County.
RI-01493	1982	Napton, Kyle L. and E.A. Greathouse	Cultural Resource Inventory on the Twenty-Nine Palms Indian Reservation, Riverside County, California.
RI-01494	1993	Rosenthal, Jane and Patricia R. Jertberg	Archaeological Assessment of the Twenty-Nine Palms Band of Mission Indians Casino Development, Indio, Riverside County, California.
RI-01975	1985	Breece, William H. and Laurel A. Harrison	The Results of a Cultural Resources Survey in Coachella, California.
RI-02210	1986	Underwood, J., J. Cleland, C.M. Wood, and R. Apple	Preliminary Cultural Resources Survey Report for the US Telecom Fiber Optic Cable project, From San Timoteo Canyon to Socorro, Texas: the California Segment.
RI-03471	1991	Macko, Michael	Archaeological Resource Assessment of the Proposed Indian Village Residential Development, Cabazon Indian Reservation, Riverside County, California.
RI-04291	2000	Dietler, John, Andrew R. Pignolo, and Michael Baksh	An Archaeological Survey of Three Signboard Locations Along Dillon Road, Cabazon Indian Reservation, Riverside County, California.
RI-04432	2001	Love, Bruce and Bai "Tom" Tang	Historical / Archaeological Resources Survey Report: Astor Ranch Property, City of Indio, Riverside County, California.
RI-04492	2001	White, Robert S. and Laura S. White	A Cultural Resources Assessment of an 8.06 Acre Parcel as Shown on TPM 30012, Located Northeast of the Intersection of Calhoun Street and Date Avenue in the City of Indio, Riverside County.
RI-04552	2002	Brock, James	Phase I Cultural Resources Assessment for a 116-Acre Property in the City of Coachella, Riverside County, California (APN 612-220-002, 612-220-004, 612-240--1, 612-240-002, 612-240-003, and 612-240-004).
RI-04556	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract Map No. 30582, City of Coachella, Riverside County, California (APN 612-220-003).
RI-04557	2002	Brock, James	Phase II Archaeological Investigations of Sites CA-RIV-6797 and CA-RIV-6798, Tentative Tract No. 30684, City of Coachella, Riverside County, California.
RI-04558	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract No. 30728, City of Coachella, Riverside County, California.
RI-04560	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract Map No. 30830, City of Coachella, Riverside County, California.
RI-04561	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract Map No. 30829, City of Coachella, Riverside County, California.
RI-04562	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract Map No. 30910, City of Coachella, Riverside County, California.
RI-04577*	2002	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract Map No. 30498, City of Coachella, Riverside County, California (APNs 603-220-022, -024, -

Table C-1 Previous Cultural Studies Within One-Mile Radius Of The Project Area

EIC DOCUME NT #	DATE	AUTHOR(S)	TITLE
			025, -026, and -027).
RI-04668	2003	Brock, James	Phase I Cultural Resources Assessment for Tentative Tract 30354-1, City of Coachella, Riverside County, California.
RI-04669	2003	Brock, James	Phase I Cultural Resources Assessment for a 60-Acre Property in the Cities of Coachella and Indio, Riverside County, California (Tentative Tract 31433 Indio).
RI-04740	2004	Tetra Tech, Inc.	An Archaeological Resources Survey of Approximately 80 Acres for the Coachella 293 project, City of Coachella, County of Riverside, California.
RI-04771	2004	Brock, James and Mary Anne Eason	Report on Archaeological Monitoring of Rough Grading for Tract 30935, City of Indio, Riverside County, California.
RI-04817	2004	Demcak, Carol R.	Report of Archaeological and Paleontological Monitoring at Tract 30684, Coachella, Riverside County, California.
RI-04819	2003	Demcak, Carol R.	Report of Phase I (Survey Level) Archaeological Assessment for 7-Acre Parcel in City of Indio, Riverside County, California.
RI-04823	2004	Demcak, Carol R.	Report of Phase I Archaeological Assessment for Two Parcels (APNs 612-270-002, -003, and -004), Avenue 49 at Calhoun Street, Coachella, California.
RI-04825	2003	Demcak, Carol R.	Report of Phase II (Test Level) Archaeological Investigations at TTM 30910, City of Coachella, Riverside County, California.
RI-04826	2003	Demcak, Carol R.	Report of Extended Phase II (Test Level) Archaeological Investigations at TTM 30910, City of Coachella, Riverside County, California.
RI-04827	2003	Demcak, Carol R.	Final Report of Extended Phase II (Test Level) Archaeological Investigations at TTM 30910, City of Coachella, Riverside County, California.
RI-04828*	2003	Demcak, Carol R., Stephen Van Wormer, and Milos Velchovsky	Report of Archaeological and Paleontological Monitoring at TTM 30498, City of Coachella, Riverside County, California.
RI-04829*	2004	Demcak, Carol R.	Report of Archaeological and Paleontological Monitoring at Tract 30498-2, "Rancho Las Flores", Coachella, Riverside County, California.
RI-04830*	2004	Demcak, Carol R.	Report of Archaeological and Paleontological Monitoring at Tract 30498-3, "Rancho Las Flores", Coachella, Riverside County, California.
RI-05125	2004	John D. Goodman II and Leslie J. Mouriouand	Phase I Cultural Resources Investigation for the 450-Acre Shadow View Country Club project, City of Coachella, Riverside County, California.
RI-05131	2003	The Keith Companies	Phase I Cultural Resources Investigation of 19.74 Acres Located Between Van Buren Street and the Southern Pacific Railroad, City of Indio, Riverside County, California.
RI-05452*	2005	Goodwin, Riordan	Historic Property Survey Report (The Dillon Road Grade Separation project, City of Coachella, Riverside County, CA).
RI-05606	2003	White, Robert S. and Laura S. White	A Cultural Resources Assessment of a +/-17 Acre Parcel. Located Southeast of the Intersection of Jackson Street and Avenue 48, City of Coachella, Riverside County.
RI-05740	2003	Quinn, Harry M. and Mariam Dahdul	Historical/Archaeological Resources Survey Report, Tentative Tract No. 31074, City of Indio, Riverside County, California.
RI-05741	2003	Tang, Bai, Michael Hogan, Josh Smallwood, and Daniel Ballester	Historical/Archaeological Resources Survey Report, Tentative Tract Map No. 31389, in the City of Indio, Riverside County, California.
RI-06014	2003	Hogan, Michael	Letter Report: Archaeological Monitoring of Earth-Moving Activities, Tentative Tract Map No. 30728, City of Coachella, Riverside County, CA.

Table C-1 Previous Cultural Studies Within One-Mile Radius Of The Project Area

EIC DOCUME NT #	DATE	AUTHOR(S)	TITLE
RI-06303	2004	Tang, Bai and Casey Tibbet	The "Patton House": Northwest Corner of Avenue 48 and Jackson Street, City of Indio, Riverside County, California.
RI-06527	2005	Hogan, Michael, Bai Tang, Ayse Taskiran-Johnson, Harry Quinn, Daniel Ballester, and Josh Smallwood	Final Cultural Resources Report, Archaeological Investigations at Villa Montego II, Tract No. 31385, City of Indio, Riverside County, CA.
RI-06533	2006	Tang, Bai and Michael Hogan	Historical/Archaeological Resources Survey Report, Tentative Parcel Map No. 34368, City of Coachella, Riverside County, California.
RI-07522	2006	Sanka, Jennifer	Phase I Cultural Resources Assessment Van Buren Street project Coachella, Riverside County, California.
RI-08345	2010	Terri Jacquemain and Daniel Ballester	Historical / Archaeological Resources Study Report: Fred Young Farm Labor Center, City of Indio, Riverside County, California.
RI-08540	2010	Bai "Tom" Tang and Michael Hogan	Identification and Evaluation of Historic Properties Indio Water Authority Wastewater Treatment project Cities of Indio and La Quinta Riverside County, California.
RI-08690	2011	Wayne H. Bonner and Sarah A. Williams	Letter Report: Cultural Resources Search and Site Visit Results for T-Mobile USA Candidates IE24183-B.
RI-08977	2011	Matthew M. DeCarlo and William T. Eckhardt	Cultural Resources Inventory of Three Construction Yards and the Desert Center DC-2 Yard Distribution Alignment of the Southern California Edison (SCE) Devers-Palo Verde 2 (DPV2) project, Riverside County, California.
RI-09273	2010	Pamela Daly, M.S.H.P.	Evaluation of buildings owned by Coachella Valley Rescue Mission.
RI-09563	2015	Tiffany Clark	Cultural Resource Monitoring Report for the Las Plumas West project, City of Indio, Riverside County, California.
RI-09622	2012	Melinda Horne, Molly Valasik, and Sherri Gust	82266 Avenue 50 Cultural Resources Assessment City of Coachella, Riverside County, California.
*Indicates studies that include portions or all of the project area.			

Source: Applied EarthWorks, Inc. 2018.

Table C-2 Cultural Resources Within one-mile radius of the project Area

PRIMARY	TRINOMIAL	AGE	TYPE	DESCRIPTION
33-000149	CA-RIV-149	Prehistoric	Site	Village Site
33-002984	CA-RIV-2984	Prehistoric	Site	Ceramic scatter with faunal and charcoal
33-002985	CA-RIV-2985	Prehistoric	Site	Ceramic and lithic scatter
33-002986	CA-RIV-2986	Prehistoric	Site	Ceramic and lithic scatter
33-002987	CA-RIV-2987	Prehistoric	Site	Ceramic and lithic scatter
33-004129	CA-RIV-4129	Multicomponent	Site	Ceramic and lithic scatter with historical refuse
33-004130	CA-RIV-4130	Prehistoric	Site	Ceramic and lithic scatter
33-004131	CA-RIV-4131/H	Multicomponent	Site	Ceramic and lithic scatter, habitation site, historical refuse
33-005325	CA-RIV-5325H	Historic	Site	Refuse scatter
33-008302		Built Environment	Building	Wittier Ranch/Astor Ranch
33-008410		Built Environment	Structure	Dillon Road / Highway
33-009498	CA-RIV-6381H	Built Environment	Structure	Southern Pacific Railroad/Union Pacific Railroad
33-011393		Prehistoric	Isolate	Groundstone, discoidal
33-011410	CA-RIV-006797	Prehistoric	Site	Ceramic and lithic scatter
33-011411	CA-RIV-006798	Prehistoric	Site	Ceramic scatter
33-011412	CA-RIV-006799H	Historic	Site	Refuse scatter
33-011585		Prehistoric	Isolate	Bifacial mano
33-012294	CA-RIV-007017	Prehistoric	Site	Ceramic and lithic scatter
33-012379	CA-RIV-007031	Multicomponent	Site	Ceramic and lithic scatter with historical refuse
33-012510		Prehistoric	Isolate	Ceramic sherd
33-012667		Prehistoric	Isolate	Ceramic sherd
33-012668		Prehistoric	Isolate	Ceramic sherd
33-012669		Prehistoric	Isolate	Ceramic sherd
33-012670		Prehistoric	Isolate	Ceramic sherd
33-012806		Historic	Structure	Concrete slab foundation
33-012808		Prehistoric	Isolate	Single wonderstone flake
33-013094		Prehistoric	Isolate	Mano fragment
33-013095		Prehistoric	Isolate	Fire affected rock
33-013402		Prehistoric	Isolate	Milling slab
33-013403		Prehistoric	Isolate	Ceramic sherd
33-013405	CA-RIV-7450/H	Multicomponent	Site	Ceramic and lithic scatter with historical refuse
33-013406	CA-RIV-7451	Prehistoric	Site	Ceramic scatter
33-013407	CA-RIV-7452	Prehistoric	Site	Ceramic sherd
33-014901	CA-RIV-007932	Historic	Site	Refuse scatters and well
33-014902		Prehistoric	Isolate	Quartzite mano
33-015674	CA-RIV-008167	Historic	Site	Remains of orange grove and irrigation system

Table C-2 Cultural Resources Within one-mile radius of the project Area

PRIMARY	TRINOMIAL	AGE	TYPE	DESCRIPTION
33-017134		Historic	Site	Foundation
33-017259		Built Environment	Structure	Whitewater Channel
33-017629	CA-RIV-9132	Prehistoric	Site	Possible habitation site
33-017933		Built Environment	Building	Fred Young Farm Labor Center, single story duplexes
33-024165		Built Environment	Building	Coachella Valley Rescue Mission
33-024166		Built Environment	Building	Coachella Valley Rescue Mission - Women's Dormitory
33-024167		Built Environment	Building	84169 Highway 111, two one-story commercial buildings
33-024920	CA-RIV-012350	Multicomponent	Site	Ceramic scatter with glass scatter
33-024921		Prehistoric	Isolate	Ceramic sherd
33-024922	CA-RIV-012351	Historic	Site	Refuse scatter
33-024923	CA-RIV-12352	Prehistoric	Site	Ceramic scatter
33-024924		Prehistoric	Isolate	Ceramic sherd
33-024925	CA-RIV-012353	Prehistoric	Site	Ceramic scatter
33-024928		Prehistoric	Site	Ceramic scatter
33-024929	CA-RIV-12354	Prehistoric	Site	Ceramic scatter
33-026439		Built Environment	Building	83793 Doctor Carreon Boulevard, public utility building

*Indicates resources located within the project area.

Source: Applied EarthWorks, Inc. 2018.

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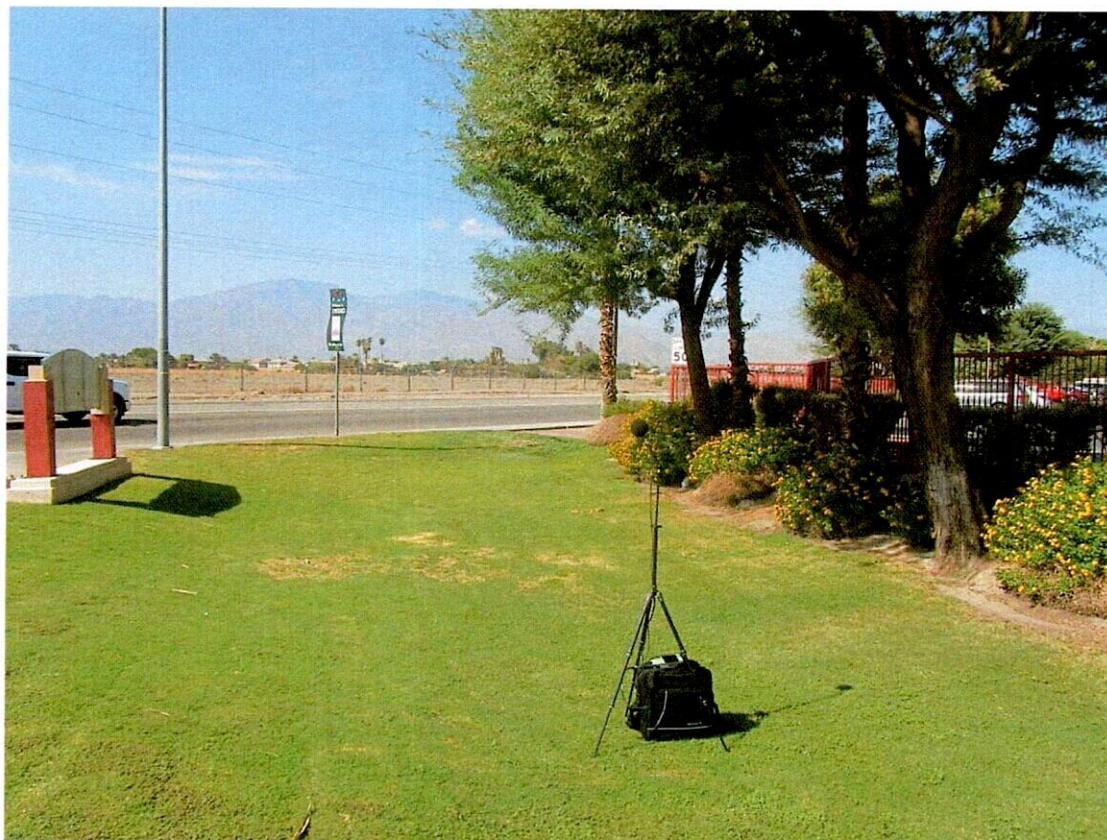
APPENDIX D
NOISE DATA

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Site Number: 1			
Recorded By: Ryan Richards			
Job Number: 161097			
Date: 8/30/2017			
Time: 9:56 AM			
Location: 83880 Avenue 48., Indio, CA 92201			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
65.5	50.6	83.8	98.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	3/27/2017	
	Microphone	Brüel & Kjær	4189	3086765	3/27/2017	
	Preamp	Brüel & Kjær	ZC 0032	25380	3/27/2017	
	Calibrator	Brüel & Kjær	4231	2545667	3/27/2017	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	<5		102.3		29.71	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.2
Start Time:		08/30/2017 09:56:42
End Time:		08/30/2017 10:06:42
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.02

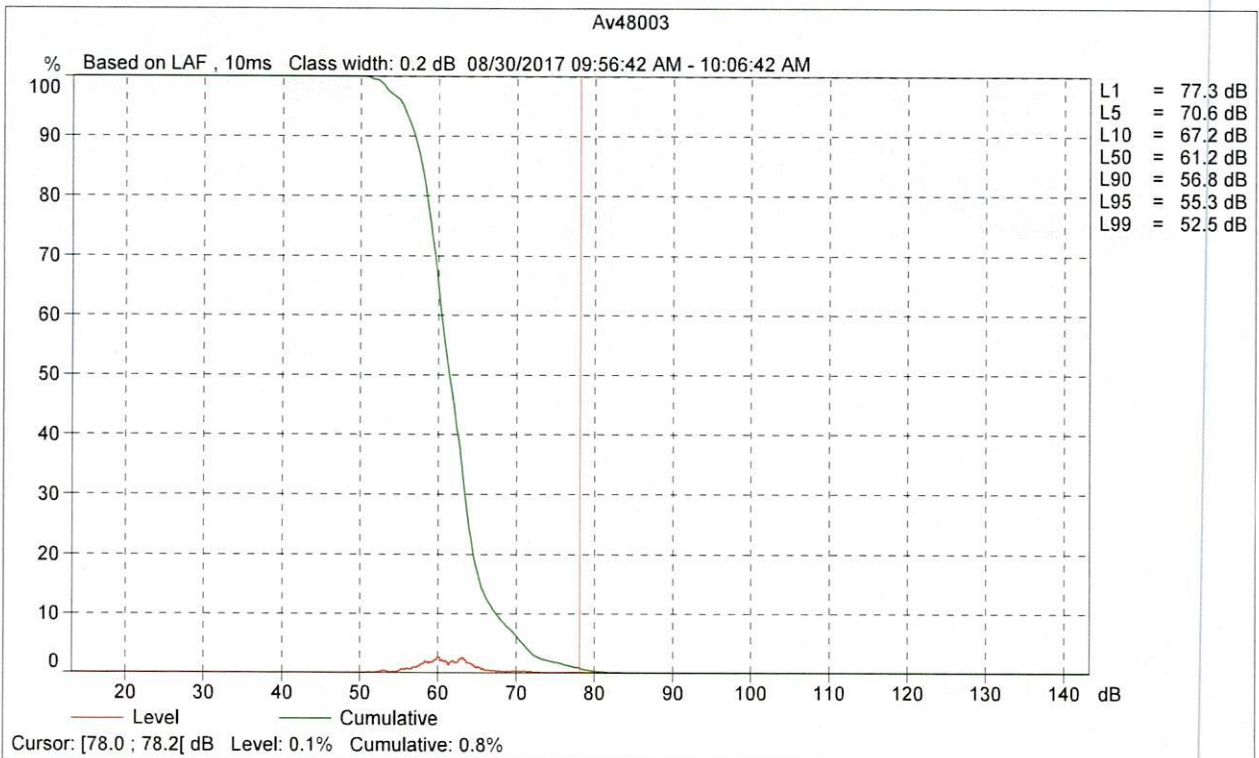
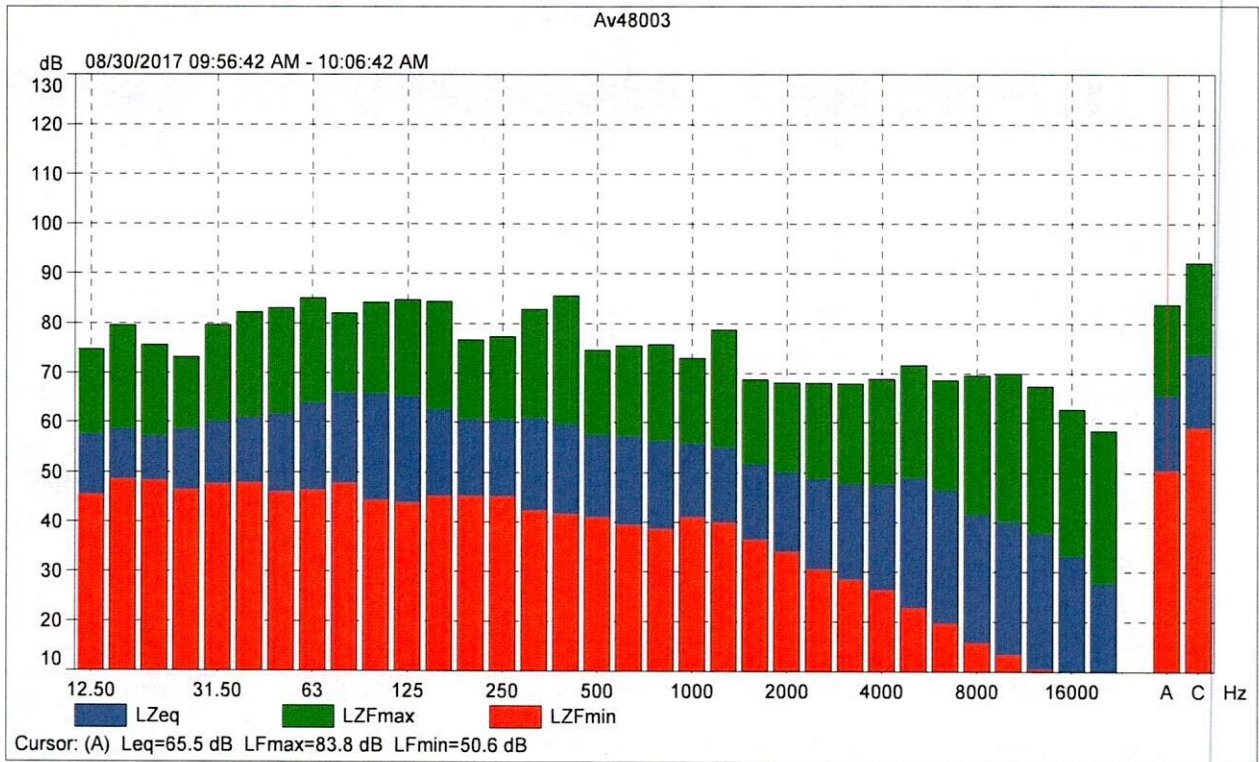
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Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

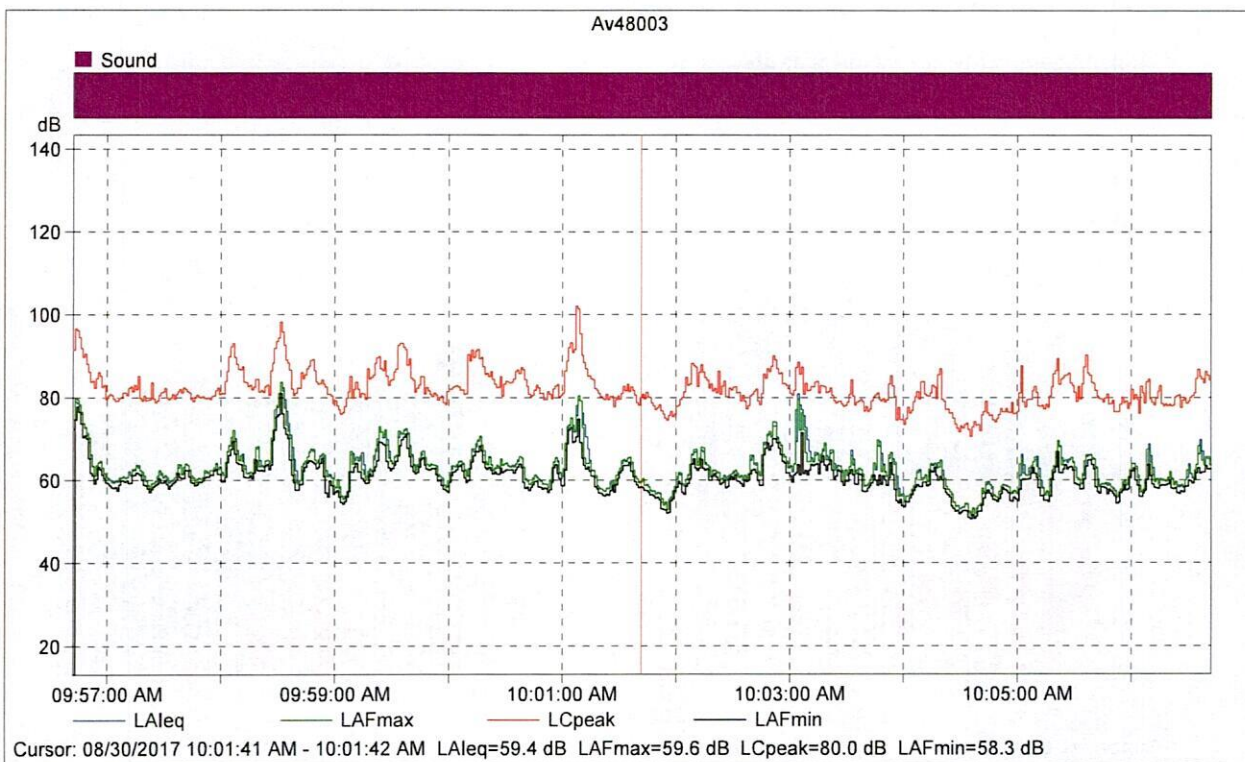
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		08/29/2017 14:37:13
Calibration Type:		External reference
Sensitivity:		44.1153794527054 mV/Pa

Av48003

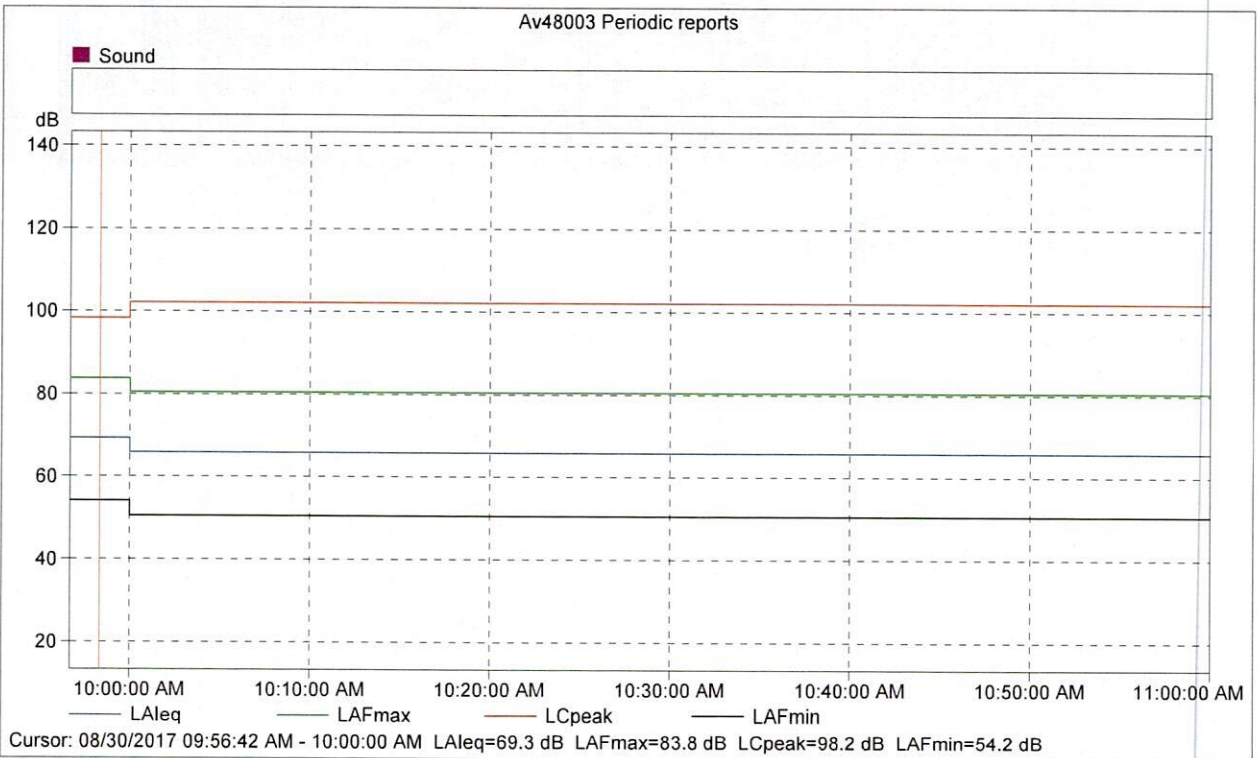
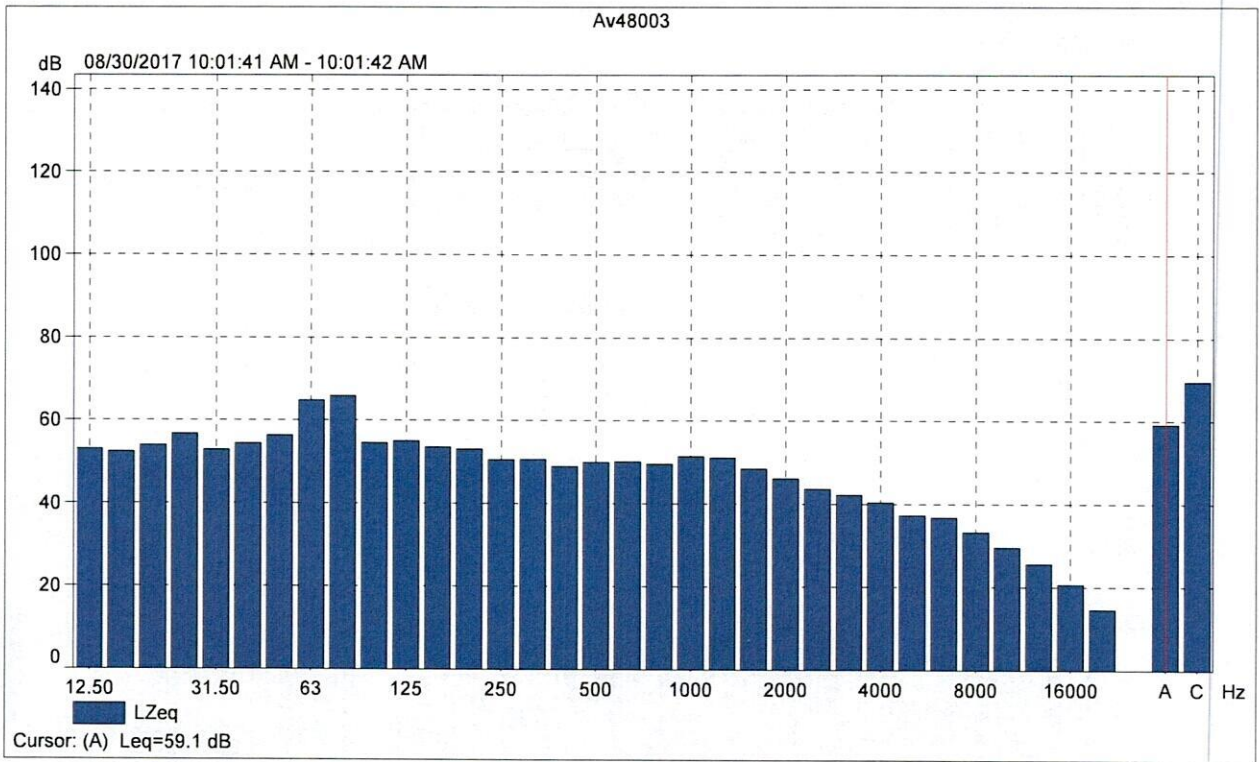
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Value				0.00	65.5	83.8	50.6
Time	09:56:42 AM	10:06:42 AM	0:10:00				
Date	08/30/2017	08/30/2017					





Av48003

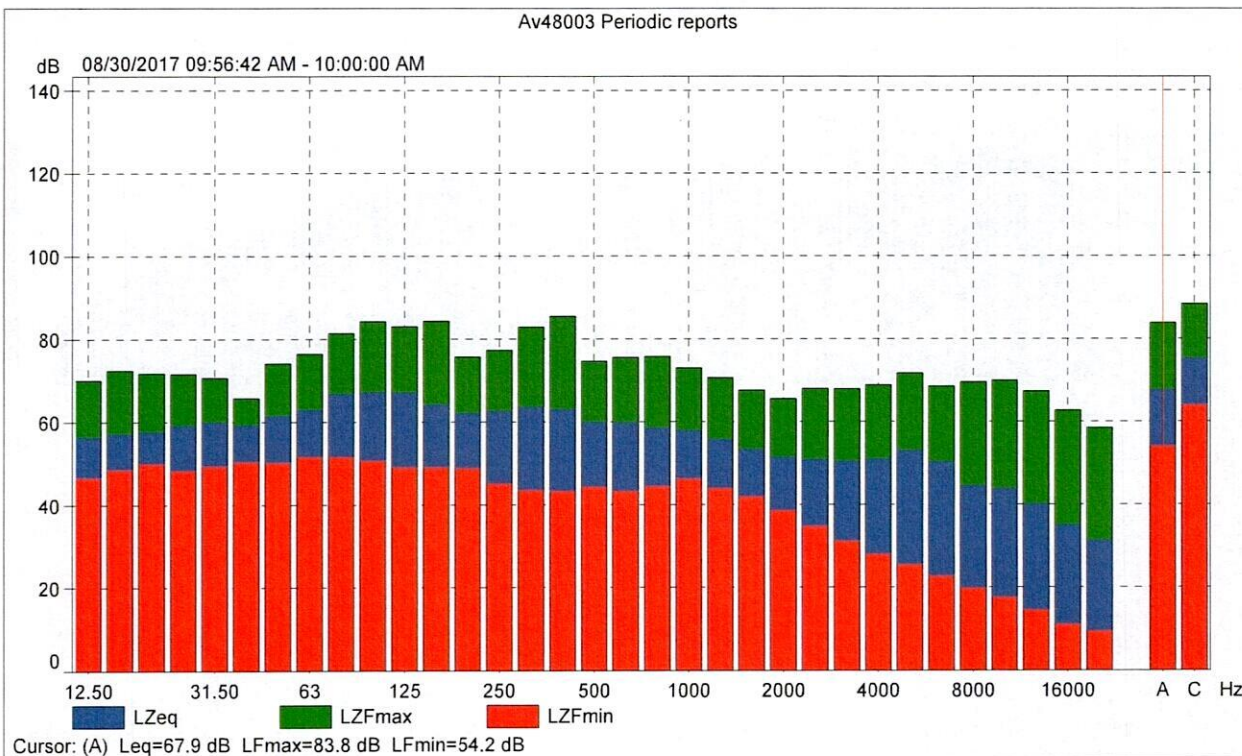
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Date	08/30/2017				





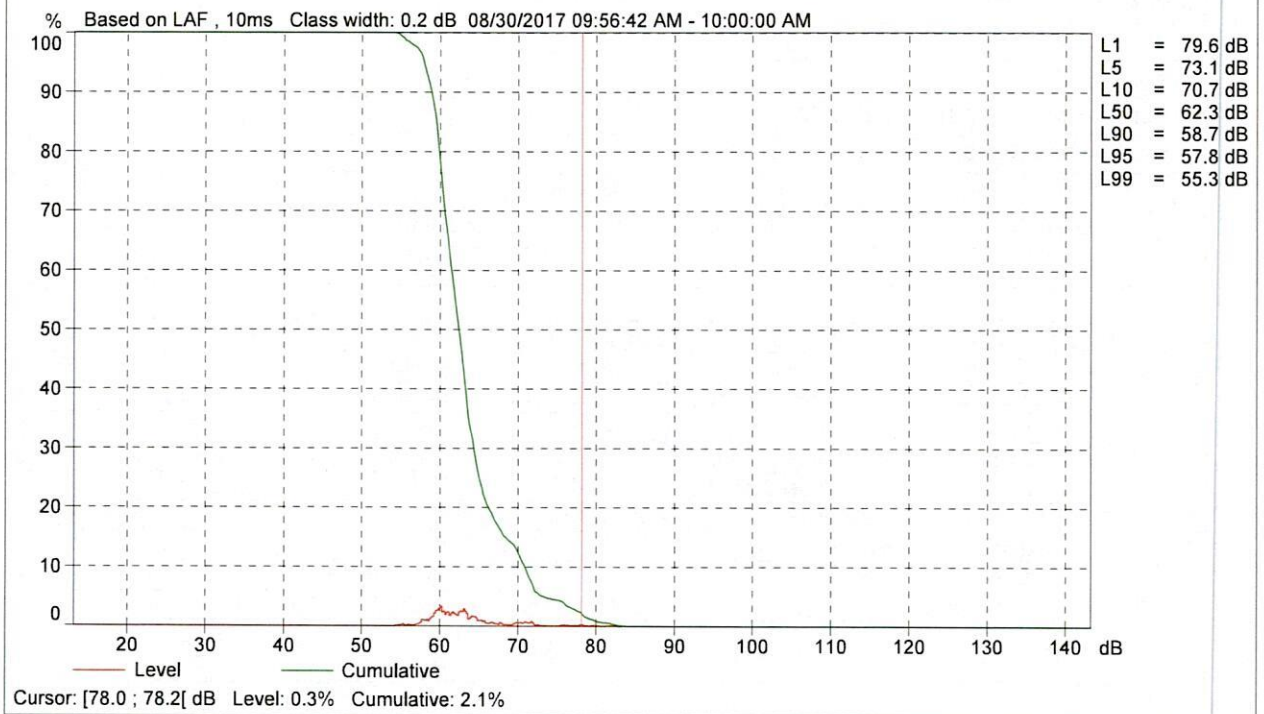
Av48003 Periodic reports

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Value			0.00	69.3	83.8	54.2
Time	09:56:42 AM	0:03:18				
Date	08/30/2017					





Av48003 Periodic reports



Site Number: 2			
Recorded By: Ryan Richards			
Job Number: 161097			
Date: 8/30/2017			
Time: 9:39 AM			
Location: 84056 Avenue 48, Indio, CA			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
69.1	50.1	86.2	104.0

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	3/27/2017	
	Microphone	Brüel & Kjær	4189	3086765	3/27/2017	
	Preamp	Brüel & Kjær	ZC 0032	25380	3/27/2017	
	Calibrator	Brüel & Kjær	4231	2545667	3/27/2017	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	<5		99.3		29.71	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.2
Start Time:		08/30/2017 09:39:25
End Time:		08/30/2017 09:49:25
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.02

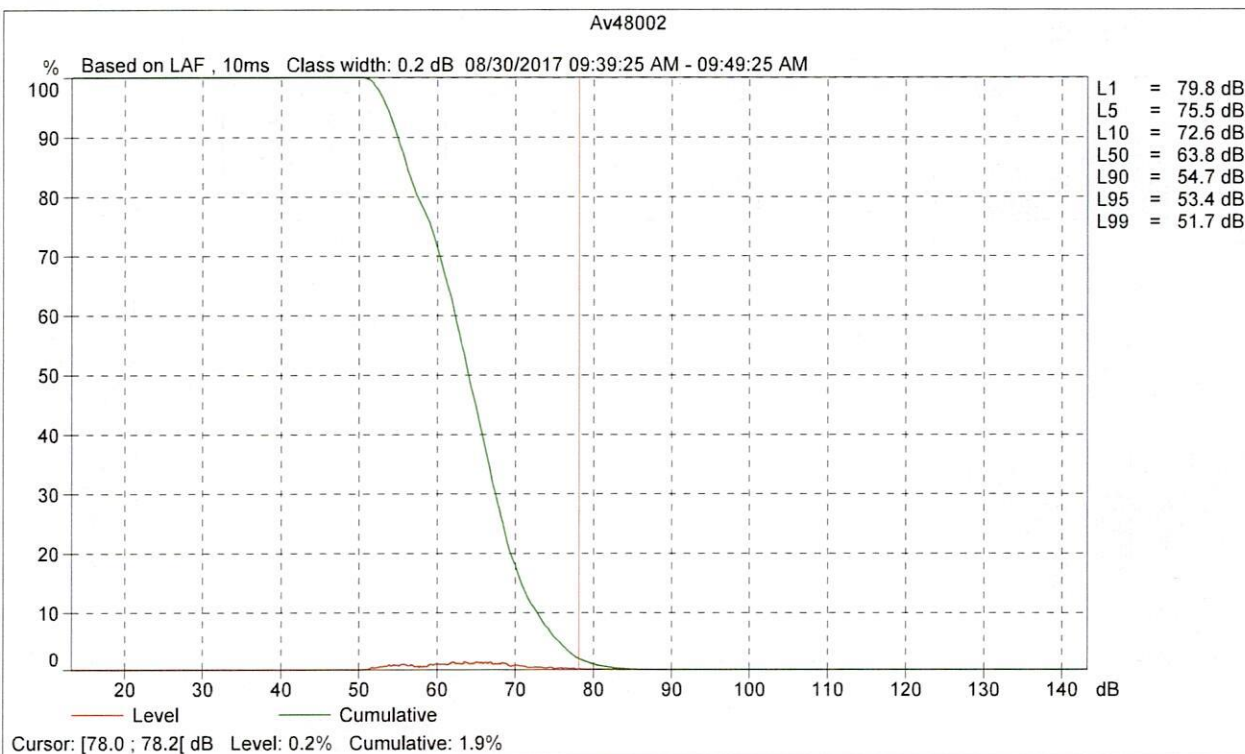
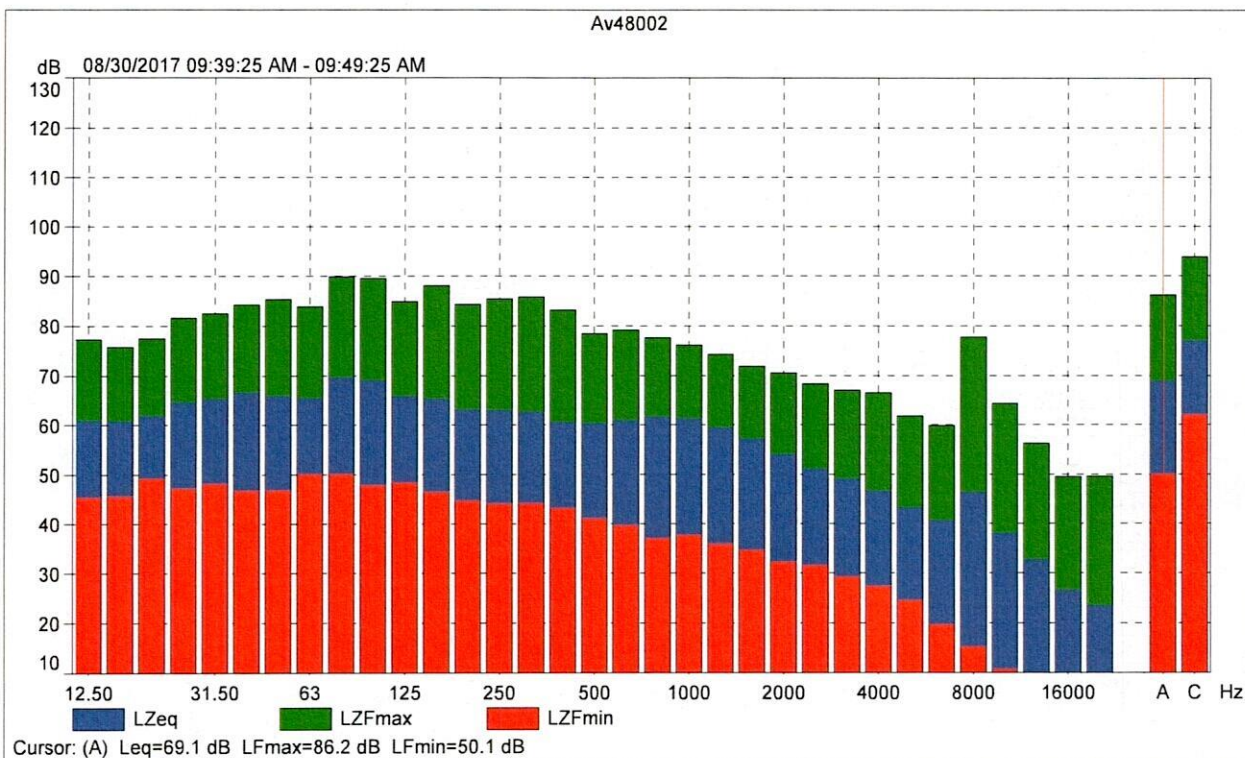
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

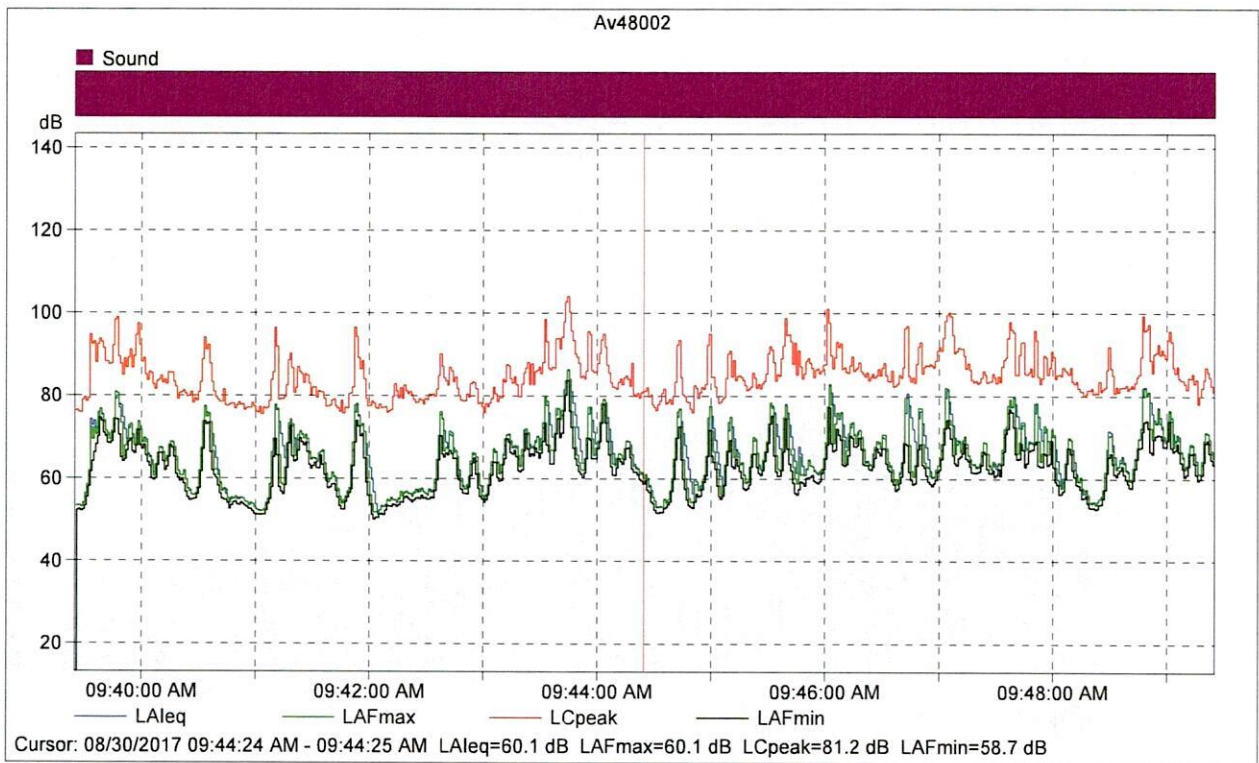
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		08/29/2017 14:37:13
Calibration Type:		External reference
Sensitivity:		44.1153794527054 mV/Pa

Av48002

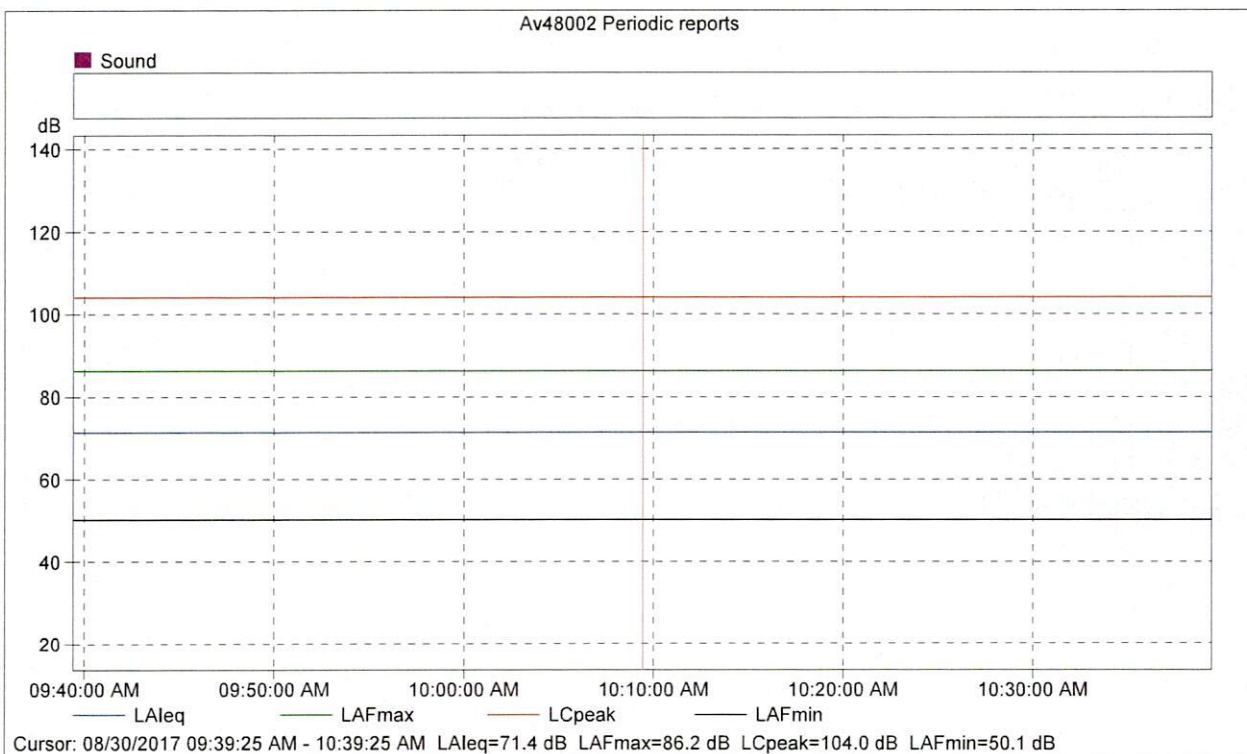
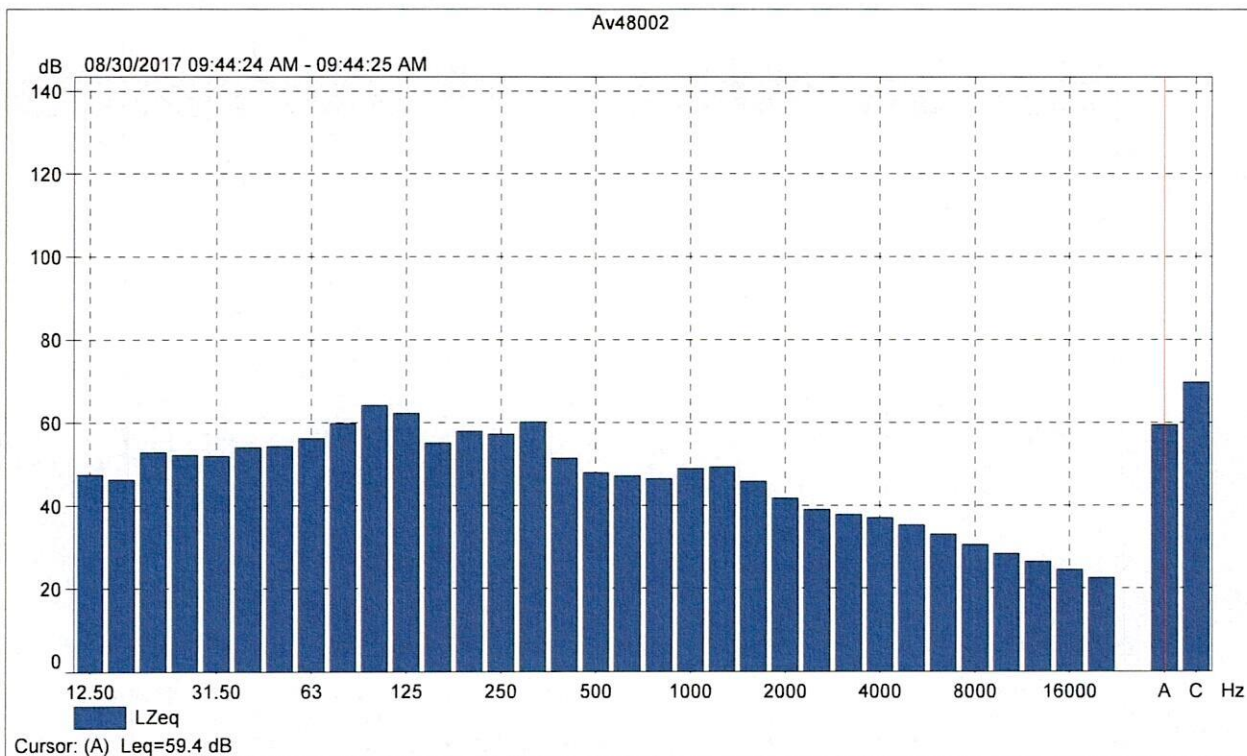
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	69.1	86.2	50.1
Time	09:39:25 AM	09:49:25 AM	0:10:00				
Date	08/30/2017	08/30/2017					





Av48002

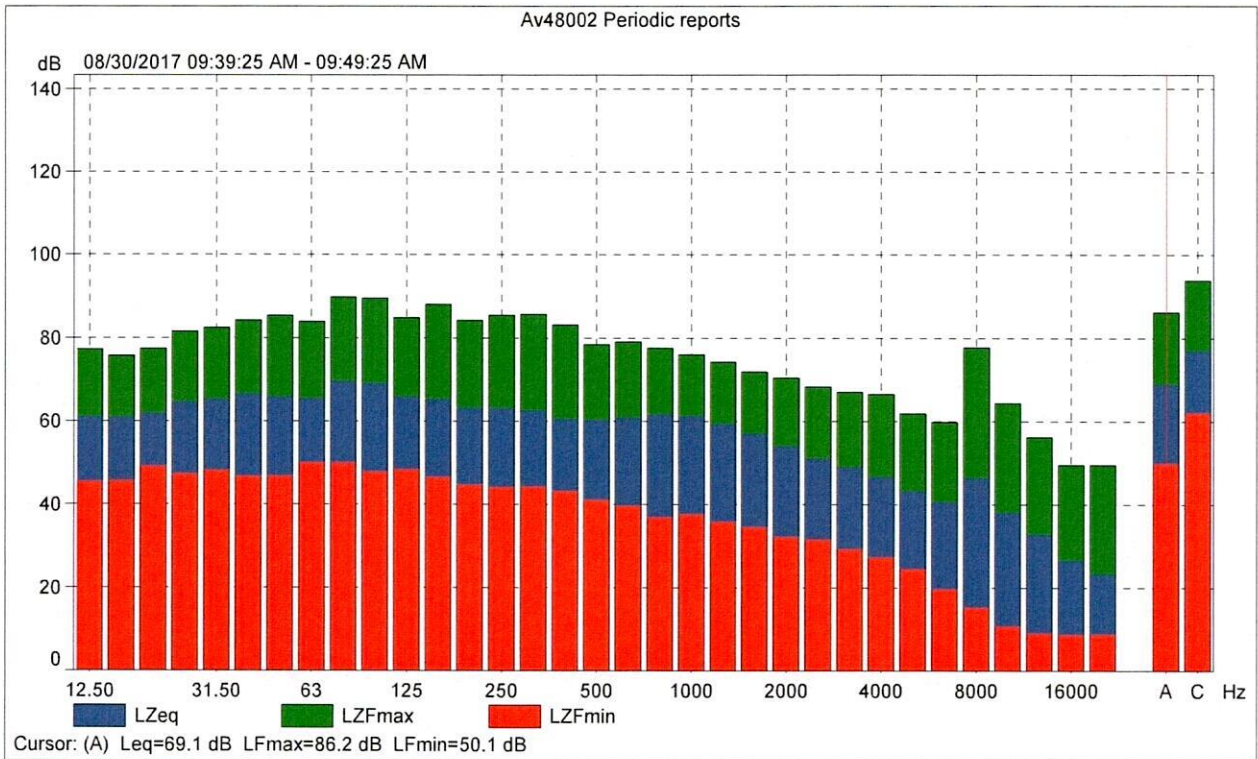
	Start time	Elapsed time	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			60.1	60.1	58.7
Time	09:44:24 AM	0:00:01			
Date	08/30/2017				





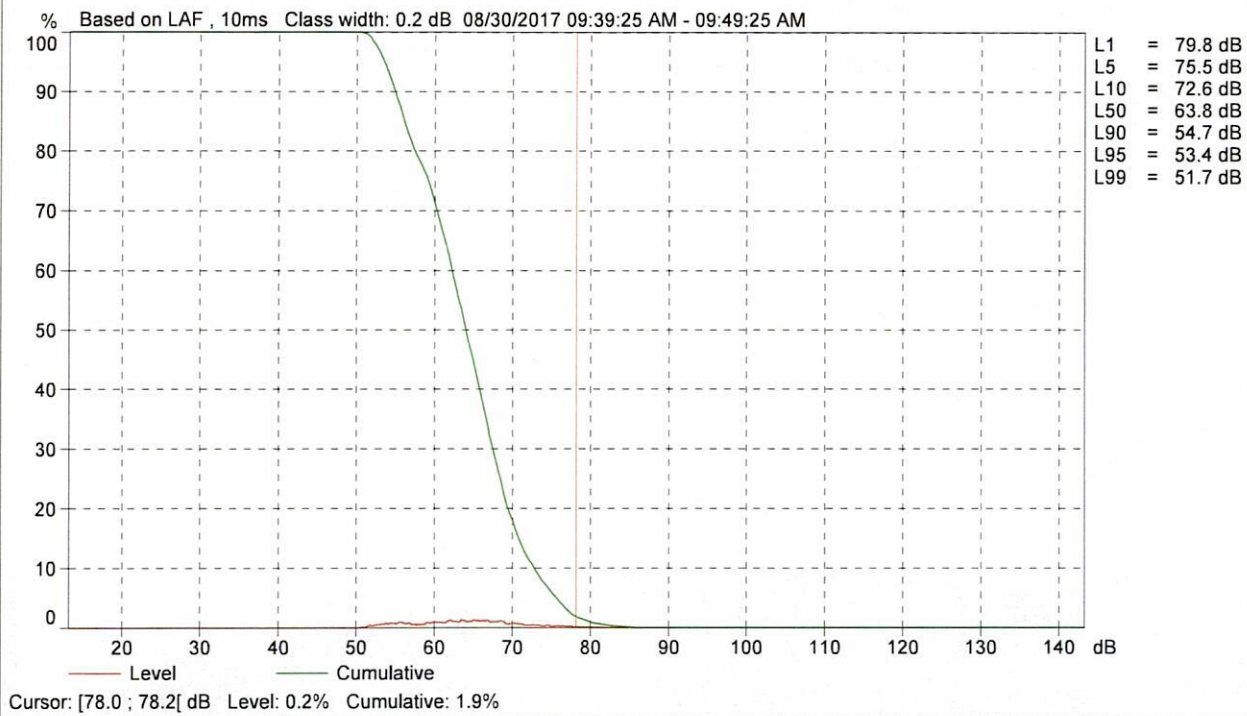
Av48002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	71.4	86.2	50.1
Time	09:39:25 AM	0:10:00				
Date	08/30/2017					





Av48002 Periodic reports



Site Number: 3			
Recorded By: Ryan Richards			
Job Number: 161097			
Date: 8/30/2017			
Time: 9:15 AM			
Location: 84195 Avenue 48, Indio, CA 92201			
Source of Peak Noise: Traffic			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
71.3	52.1	95.1	116.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	3/27/2017	
	Microphone	Brüel & Kjær	4189	3086765	3/27/2017	
	Preamp	Brüel & Kjær	ZC 0032	25380	3/27/2017	
	Calibrator	Brüel & Kjær	4231	2545667	3/27/2017	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
<5		96.4		29.71		

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.2
Start Time:		08/30/2017 09:15:23
End Time:		08/30/2017 09:25:23
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.02

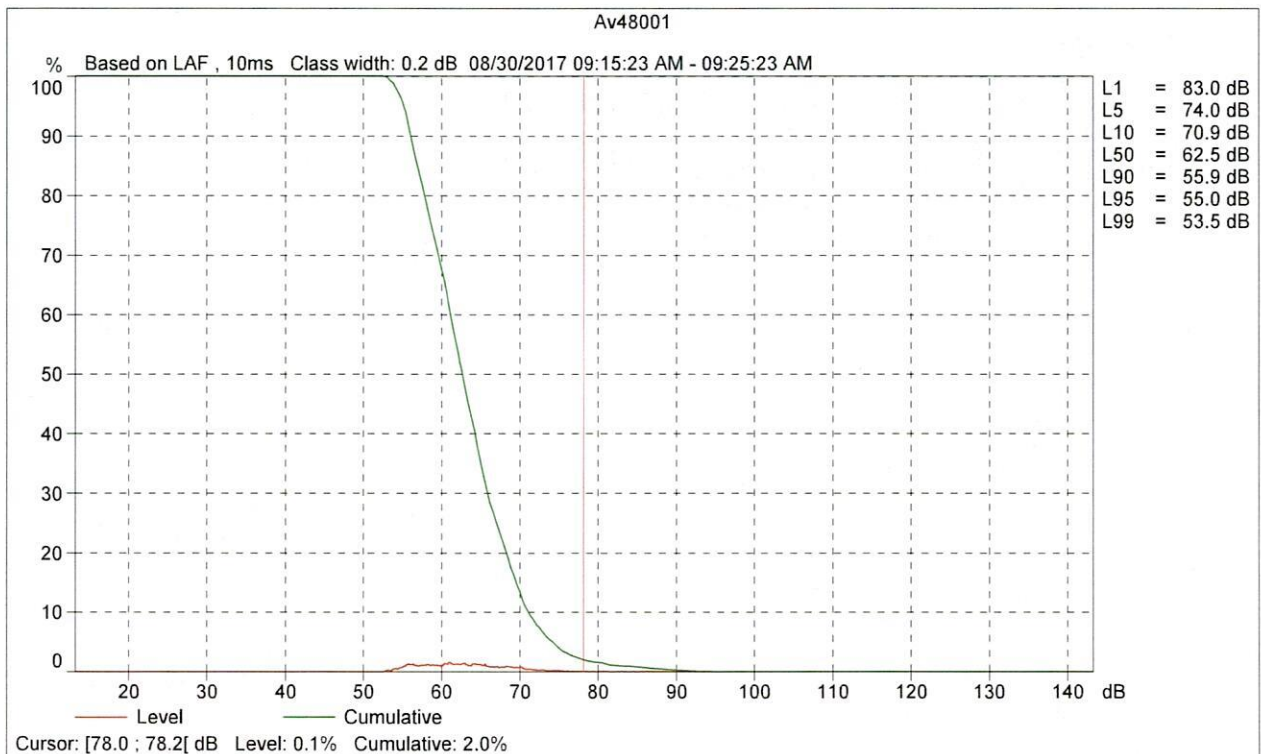
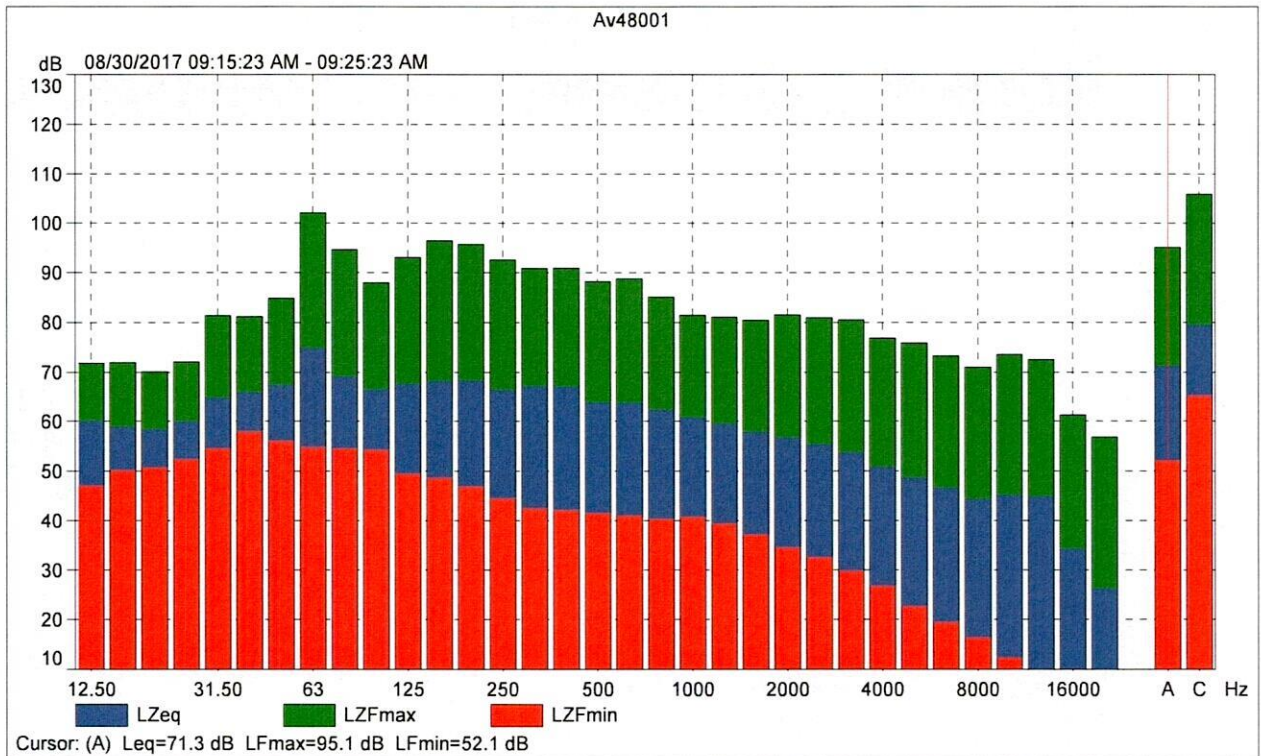
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Broadband Peak:		C
Spectrum:	FS	Z

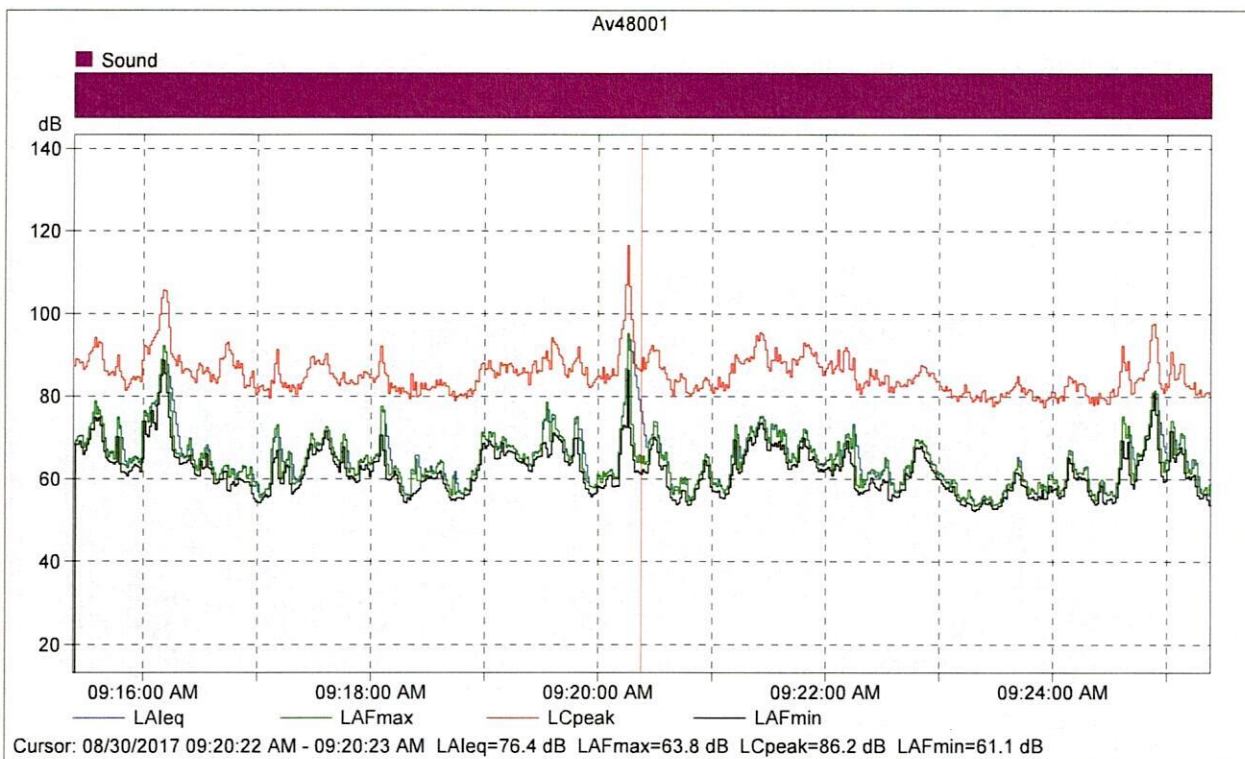
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		08/29/2017 14:37:13
Calibration Type:		External reference
Sensitivity:		44.1153794527054 mV/Pa

Av48001

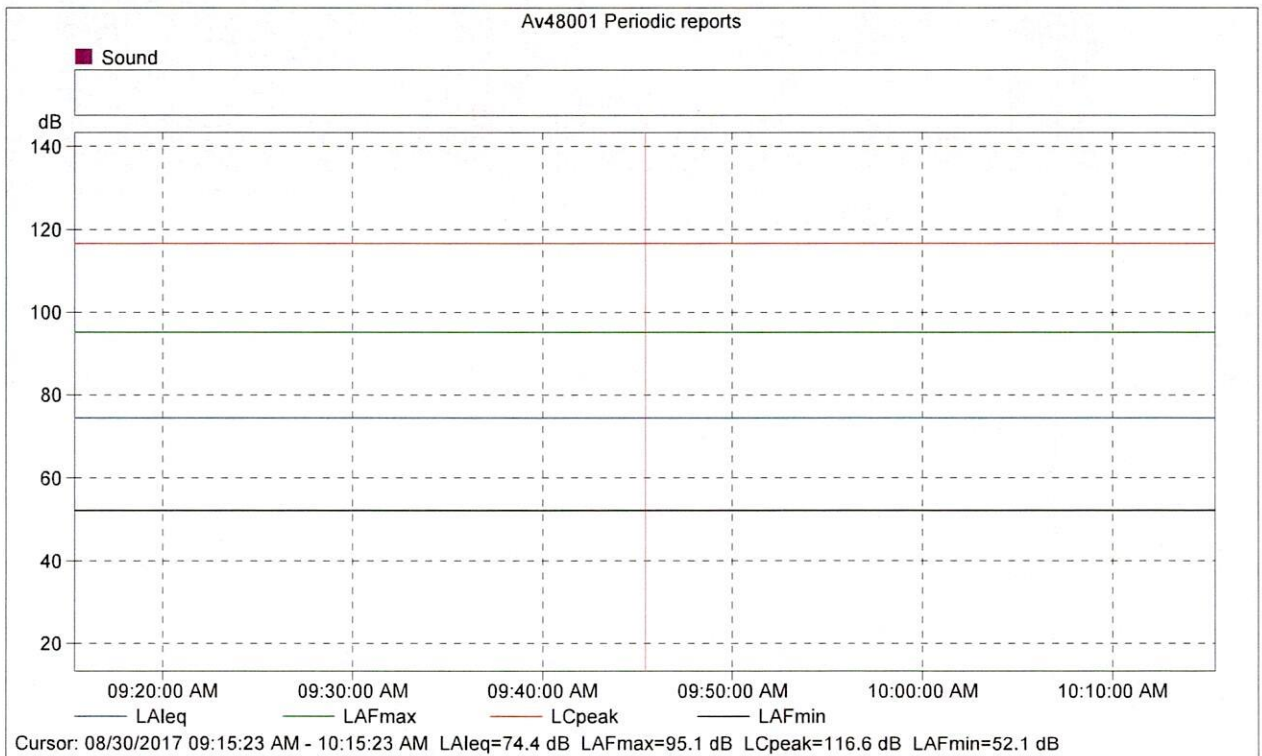
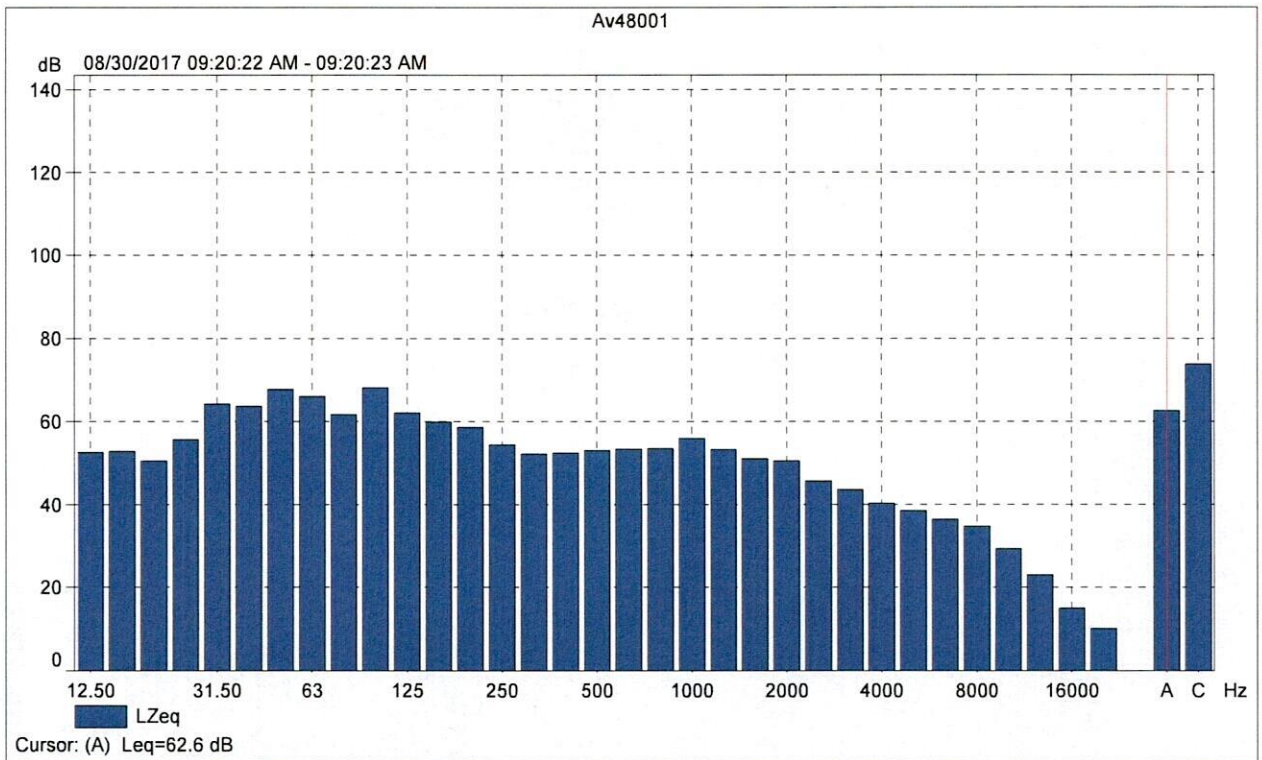
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	71.3	95.1	52.1
Time	09:15:23 AM	09:25:23 AM	0:10:00				
Date	08/30/2017	08/30/2017					





Av48001

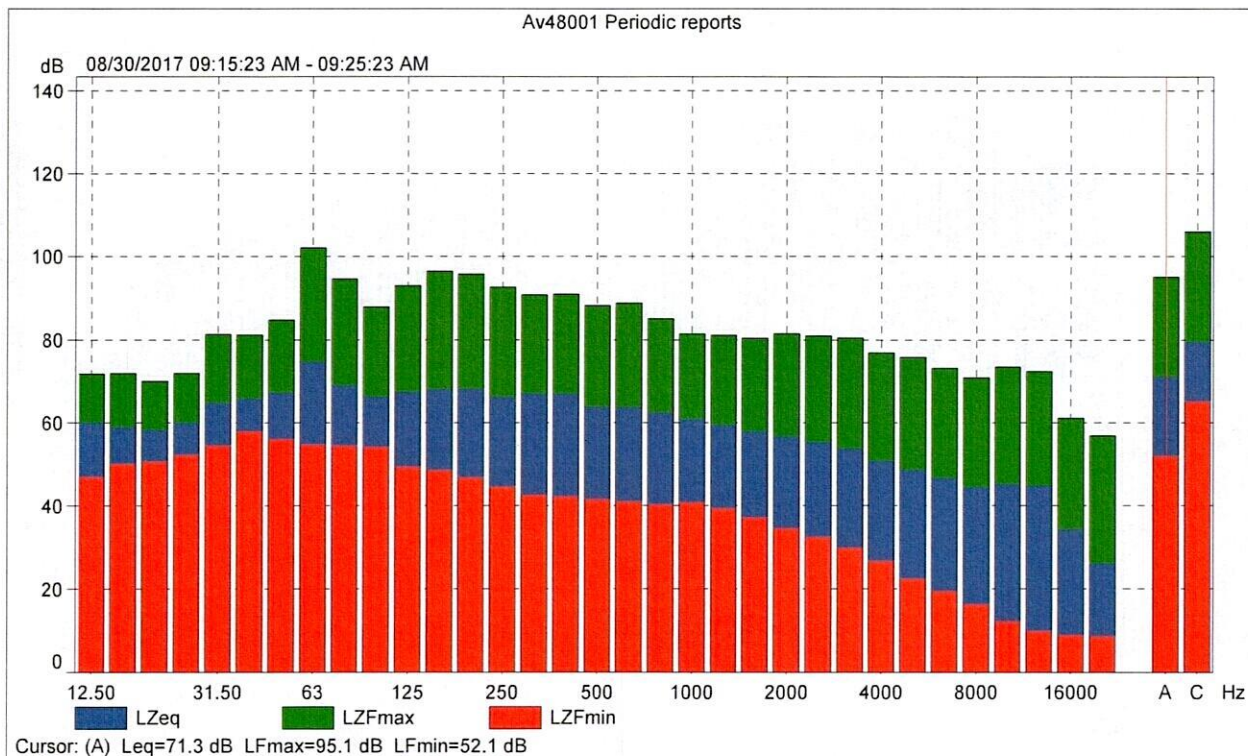
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Value			76.4	63.8	61.1
Time	09:20:22 AM	0:00:01			
Date	08/30/2017				

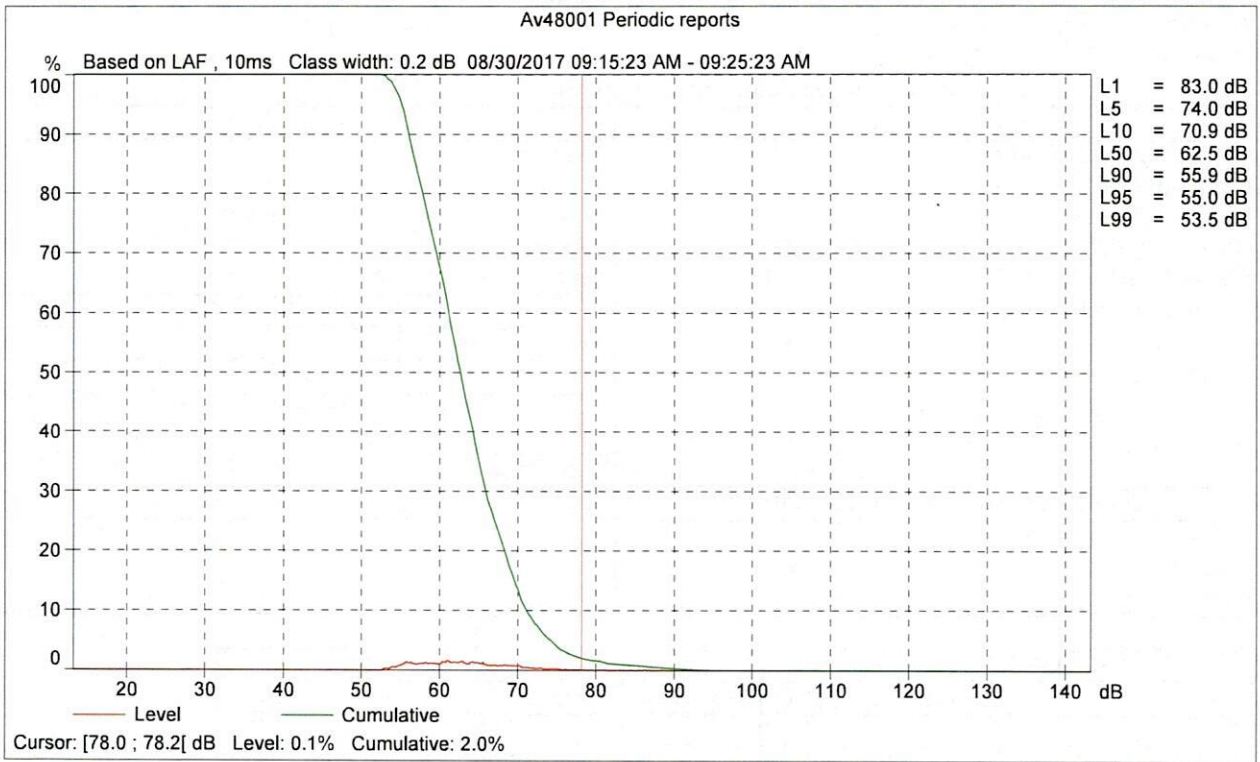




Av48001 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	74.4	95.1	52.1
Time	09:15:23 AM	0:10:00				
Date	08/30/2017					





**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

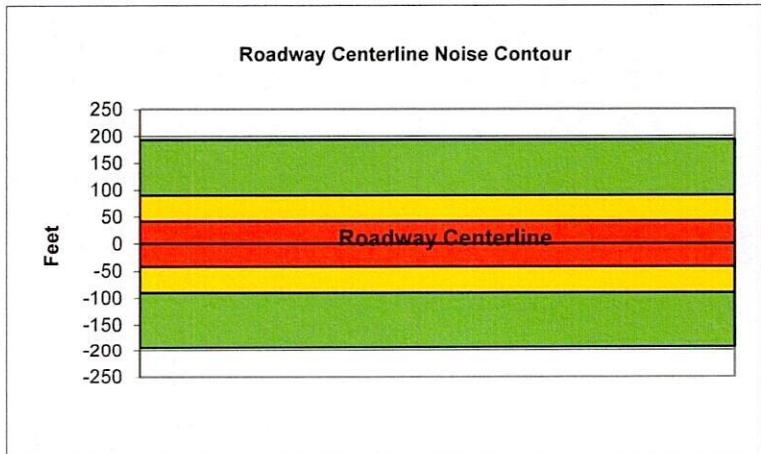
Project Name: Avenue 48 Widening in City of Coachella Scenario: Existing
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	12458			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1245.8			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	52.2	61.0	59.2	53.1	61.8	62.4
Medium Trucks:	59.9	51.8	45.4	43.8	52.3	52.6
Heavy Trucks:	64.1	52.2	43.1	44.3	53.7	53.8
Vehicle Noise:	66.4	62.1	59.5	54.2	62.8	63.3

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	194
65 dBA	90
70 dBA	42
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

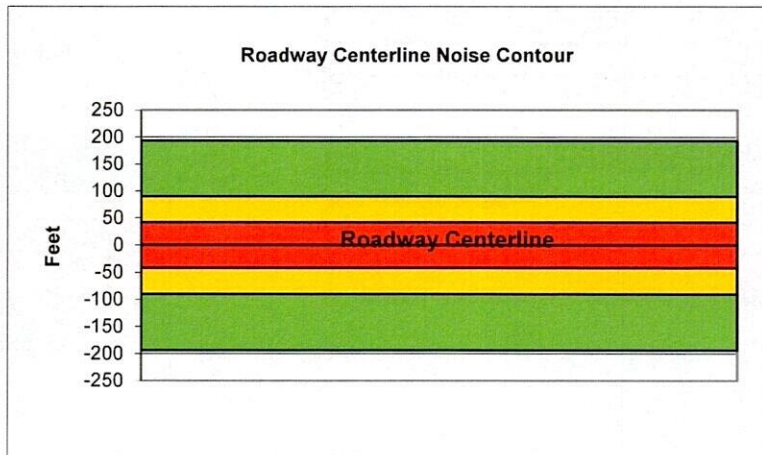
Project Name: Avenue 48 Widening in City of Coachella Scenario: Existing
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	12458			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1245.8			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	52.2	61.0	59.2	53.1	61.8	62.4
Medium Trucks:	59.9	51.8	45.4	43.8	52.3	52.6
Heavy Trucks:	64.1	52.2	43.1	44.3	53.7	53.8
Vehicle Noise:	66.4	62.1	59.5	54.2	62.8	63.3

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	194
65 dBA	90
70 dBA	42
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

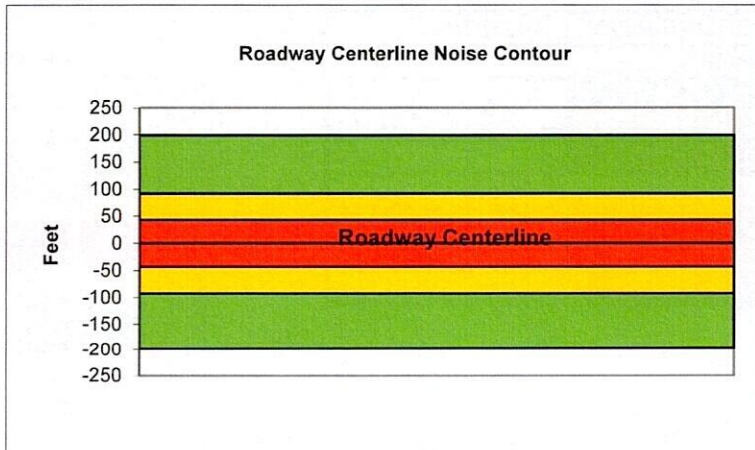
Project Name:	Avenue 48 Widening in City of Coachella	Scenario:	Near Term
Analyst:	Ryan Richards	Job #:	161097
Roadway:	48th Avenue		
Road Segment:	Van Buren Street to Dillon Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	12937			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1293.7			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	52.4	61.1	59.4	53.3	61.9	62.5
Medium Trucks:	60.0	52.0	45.6	44.0	52.5	52.7
Heavy Trucks:	64.3	52.3	43.3	44.5	53.9	54.0
Vehicle Noise:	66.6	62.2	59.7	54.4	63.0	63.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	199
65 dBA	92
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

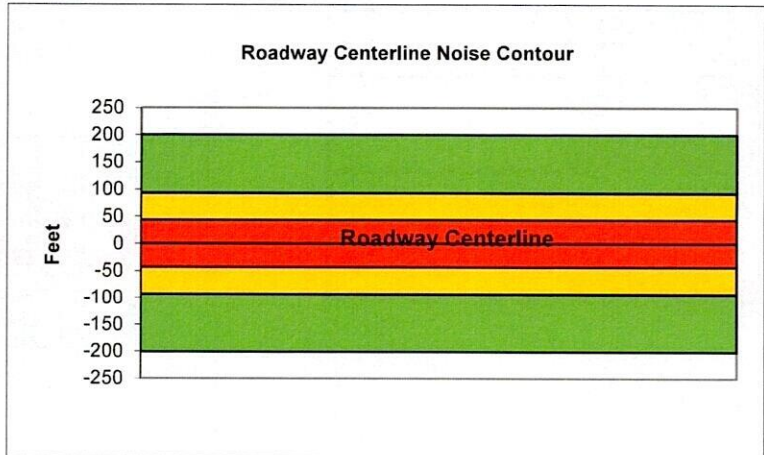
Project Name: Avenue 48 Widening in City of Coachella Scenario: Near Term
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	13121			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1312.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	52.4	61.2	59.4	53.3	62.0	62.6
Medium Trucks:	60.1	52.0	45.6	44.1	52.6	52.8
Heavy Trucks:	64.3	52.4	43.3	44.6	53.9	54.1
Vehicle Noise:	66.6	62.3	59.7	54.4	63.0	63.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	201
65 dBA	93
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

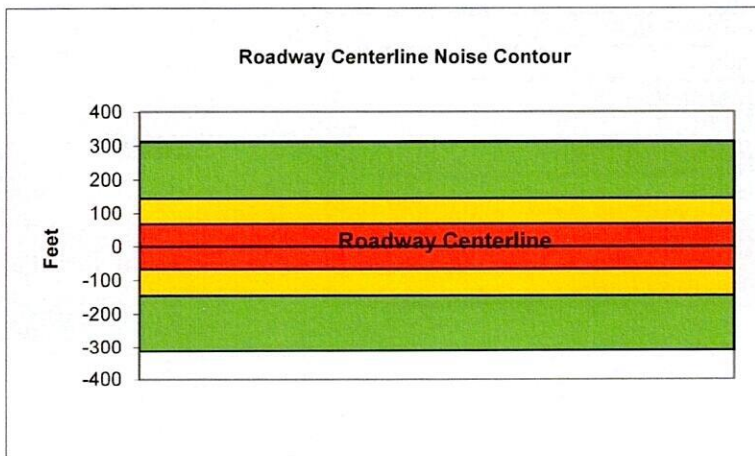
Project Name: Avenue 48 Widening in City of Coachella Scenario: Near Term Plus Project
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Van Buren Street to Dillon Road

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	12937			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1293.7			
Centerline Dist. To Observer:	100	Vehicle Speed:	65			
Barrier Near Lane CL Dist:	0	Centerline Separation:	100			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	54.4	63.2	61.4	55.3	63.9	64.6
Medium Trucks:	60.6	52.5	46.1	44.5	53.0	53.3
Heavy Trucks:	64.1	52.1	43.1	44.3	53.3	53.4
Vehicle Noise:	66.4	63.9	61.6	56.0	64.6	65.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	312
65 dBA	145
70 dBA	67
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

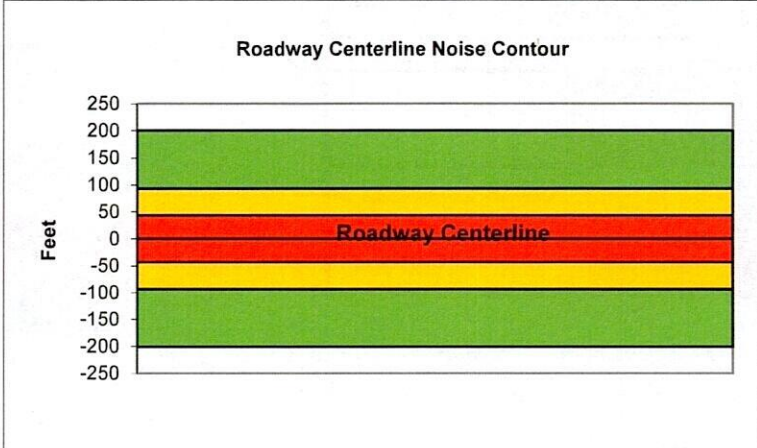
Project Name: Avenue 48 Widening in City of Coachella Scenario: Near Term Plus Project
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	13121			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1312.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	52.4	61.2	59.4	53.3	62.0	62.6
Medium Trucks:	60.1	52.0	45.6	44.1	52.6	52.8
Heavy Trucks:	64.3	52.4	43.3	44.6	53.9	54.1
Vehicle Noise:	66.6	62.3	59.7	54.4	63.0	63.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	201
65 dBA	93
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

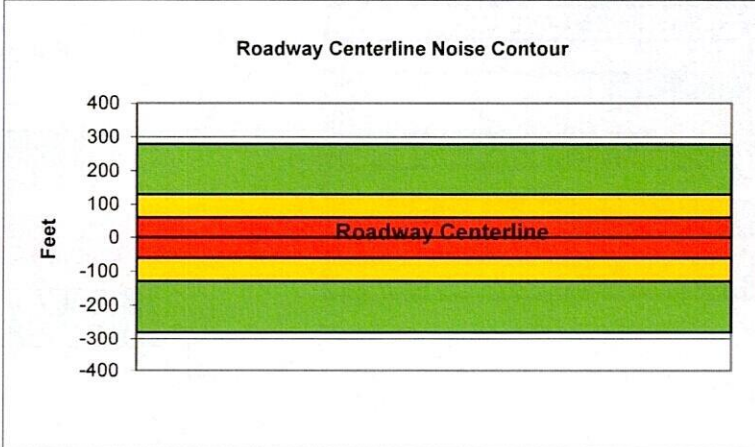
Project Name:	Avenue 48 Widening in City of Coachella	Scenario:	Future
Analyst:	Ryan Richards	Job #:	161097
Roadway:	48th Avenue		
Road Segment:	Van Buren Street to Dillon Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	21470			
Receiver Barrier Dist:	0	Peak Hour Traffic:	2147			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	54.6	63.3	61.6	55.5	64.1	64.7
Medium Trucks:	62.2	54.2	47.8	46.2	54.7	54.9
Heavy Trucks:	66.5	54.5	45.5	46.7	56.1	56.2
Vehicle Noise:	68.8	64.4	61.9	56.6	65.2	65.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	279
65 dBA	129
70 dBA	60
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

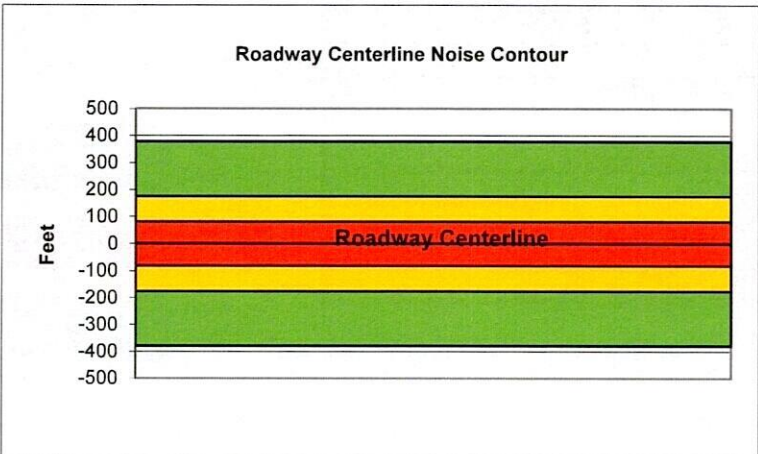
Project Name: Avenue 48 Widening in City of Coachella Scenario: Future
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	33950			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3395			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.6	65.3	63.5	57.5	66.1	66.7
Medium Trucks:	64.2	56.2	49.8	48.2	56.7	56.9
Heavy Trucks:	68.5	56.5	47.5	48.7	58.1	58.2
Vehicle Noise:	70.8	66.4	63.9	58.6	67.2	67.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	379
65 dBA	176
70 dBA	82
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

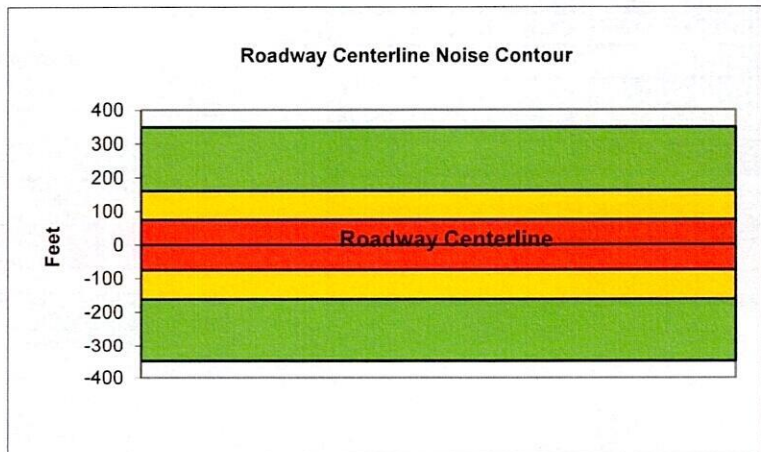
Project Name:	Avenue 48 Widening in City of Coachella	Scenario:	Future Plus Project
Analyst:	Ryan Richards	Job #:	161097
Roadway:	48th Avenue		
Road Segment:	Van Buren Street to Dillon Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	30086			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3008.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	60			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	55.5	64.3	62.5	56.4	65.1	65.7
Medium Trucks:	63.2	55.1	48.7	47.1	55.6	55.9
Heavy Trucks:	67.4	55.5	46.4	47.6	57.0	57.1
Vehicle Noise:	69.7	65.4	62.8	57.5	66.1	66.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	349
65 dBA	162
70 dBA	75
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

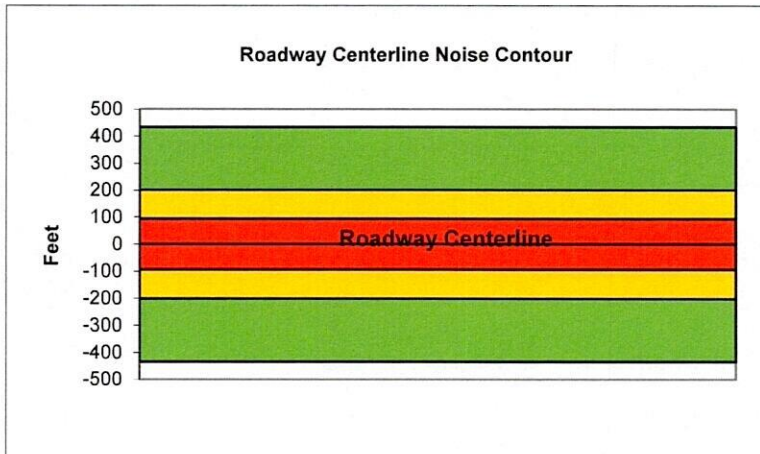
Project Name: Avenue 48 Widening in City of Coachella Scenario: Future Plus Project
 Analyst: Ryan Richards Job #: 161097
 Roadway: 48th Avenue
 Road Segment: Dillon Road to Grapefruit Blvd. - Indio Blvd.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	41713			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4171.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	50			
Barrier Near Lane CL Dist:	0	Centerline Separation:	60			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions:SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.9	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	64.6	56.5	50.1	48.6	57.1	57.3
Heavy Trucks:	68.8	56.9	47.8	49.0	58.4	58.6
Vehicle Noise:	71.1	66.8	64.2	58.9	67.5	68.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	434
65 dBA	201
70 dBA	93
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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APPENDIX E
DISTRIBUTION LIST

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Distribution List

The Notice of Availability/Notice of Intent to Adopt a Mitigated Negative Declaration was mailed to the following agencies, organizations, and individuals (unless Initial Study hardcopies specified).

ADJACENT PROPERTY OWNERS

All property owners within 500 feet of the proposed project received a Notice of Availability / Notice of Intent to Adopt a Mitigated Negative Declaration.

UTILITIES

Joseph Forkert
AT&T
22311 Brookhurst St., Suite 203
Huntington Beach, CA 92646

Mark Chappell, P.E.
City of Coachella
Manager of Engineering
1515 Sixth St.
Coachella, CA 92236

Tyler Hull
Coachella Valley Water District
85995 Ave. 52
Coachella, CA 92236

William Kearns and Luis Becerra
Access Design & Construction
Frontier Communications
295 North Sunrise Way
Palm Springs, CA 92262-5295

Jose Gerado
Imperial Irrigation District
81600 Ave. 58
La Quinta, CA 92253

Brian Macy
Indio Water Authority
83-101 Ave. 45
Indio, CA 92201

Karley Payne
Kinder Morgan
Energy Partners, L.P.
1100 Town and Country Rd.
Orange, CA 92868

Caleb King
CenturyLink
100 South Cincinnati Ave.
Suite 1200
Tulsa, OK 74103

Jose Renteria
CenturyLink
100 South Cincinnati Ave.
Suite 1200
Tulsa, OK 74103

Luis Ramirez
Southern California Gas Company
9400 Oakdale Ave
Mail Location 9314
Chatsworth, CA 91311-6511

Peter Quintana
Planning Department
Southern California Gas Company
P.O. Box 3003
92373-0306

Kevin Kuennen
Southern California Gas
Land & ROW
251 E. 1st St.
Beaumont, CA 92223

Jeff York
Sprint Communication Company
282 South Sycamore Ave.
Rialto, CA 92376

Ed Mulcahy
Sunesys, LLC.
Western Regional Office
226 N. Lincoln Ave.
Corona, CA 92882

Robert Santos
Sunesys, LLC.
Western Regional Office
1325 Pico, #106
Corona, CA 92881

Lee Hobson, Construction
Manager
Charter Communications
83-475 Ave. 45
Indio, CA 92201

Steve Shepard
Valley Sanitary District
45-500 Van Buren St.
Indio, CA 92201

Dean Boyer
Attention: Investigations
Verizon Business
2400 N. Glenville Dr.
Richardson, TX 75082

Omar Cecena
Cable USA
P.O. Box 336
Borrego Springs, CA 92004

Denton Johnson
Questar Southern Trails Pipeline
Mail Stop OC129
P.O. Box 45360
Salt Lake City, UT 84145-0360

Matthey Williams
Level 3
1025 Eldorado Blvd-33A522
Broomfield, CO 80021