APPENDIX A

Air Quality and GHG Calculations

ALDI Food Market Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Construction Phase - Modified per ALDI Construction Schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Trips and VMT - Modified per ALDI construction schedule

Grading - Modified per ALDI construction schedule

Architectural Coating - Modified per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblConstructionPhase	NumDays	200.00	88.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	PhaseEndDate	10/14/2016	10/15/2016
tblConstructionPhase	PhaseEndDate	10/17/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	11/25/2016	8/10/2016
tblConstructionPhase	PhaseEndDate	9/6/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	8/19/2016	8/21/2016
tblConstructionPhase	PhaseStartDate	6/16/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	10/2/2016	6/16/2016
tblConstructionPhase	PhaseStartDate	8/22/2016	9/15/2016
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	AcresOfGrading	8.25	16.50
tblGrading	MaterialExported	0.00	298.00
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	5.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	0.00	171.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.2162	1.2957	0.9991	1.3400e-003	0.1234	0.0845	0.2080	0.0557	0.0778	0.1335	0.0000	124.0311	124.0311	0.0325	0.0000	124.7128
Total	**0.2162**	**1.2957**	**0.9991**	**1.3400e-003**	**0.1234**	**0.0845**	**0.2080**	**0.0557**	**0.0778**	**0.1335**	**0.0000**	**124.0311**	**124.0311**	**0.0325**	**0.0000**	**124.7128**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.2162	1.2957	0.9991	1.3400e-003	0.0581	0.0845	0.1427	0.0243	0.0778	0.1021	0.0000	124.0310	124.0310	0.0325	0.0000	124.7127
Total	**0.2162**	**1.2957**	**0.9991**	**1.3400e-003**	**0.0581**	**0.0845**	**0.1427**	**0.0243**	**0.0778**	**0.1021**	**0.0000**	**124.0310**	**124.0310**	**0.0325**	**0.0000**	**124.7127**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**52.90**	**0.00**	**31.40**	**56.33**	**0.00**	**23.51**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2016	6/15/2016	5	11	
2	Building Construction	Building Construction	6/1/2016	10/1/2016	5	88	
3	Grading	Grading	6/16/2016	8/10/2016	5	40	
4	Trenching	Trenching	8/11/2016	8/21/2016	5	7	
5	Paving	Paving	9/15/2016	10/1/2016	5	12	
6	Architectural Coating	Architectural Coating	10/2/2016	10/15/2016	5	10	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 27,836; Non-Residential Outdoor: 9,279 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	255	0.40
Site Preparation	Scrapers	1	6.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Aerial Lifts	1	5.00	62	0.31
Building Construction	Cranes	0	6.00	226	0.29
Building Construction	Forklifts	9	5.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	5.00	100	0.40
Building Construction	Skid Steer Loaders	1	5.00	64	0.37

Building Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Grading	Graders	0	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Excavators	1	5.00	162	0.38
Trenching	Graders	0	8.00	174	0.41
Trenching	Graders	0	6.00	174	0.41
Trenching	Graders	0	8.00	174	0.41
Trenching	Rubber Tired Dozers	0	6.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Skid Steer Loaders	2	5.00	64	0.37
Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	5.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	5.00	125	0.42
Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	2	5.00	80	0.38
Paving	Skid Steer Loaders	1	5.00	64	0.37
Paving	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Architectural Coating	Air Compressors	0	3.00	78	0.48
Architectural Coating	Forklifts	2	3.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	2	3.00	100	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	171.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	6.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	2.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.7500e-003	0.0000	8.7500e-003	9.4000e-004	0.0000	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0860	0.0554	7.0000e-005		3.9600e-003	3.9600e-003		3.6400e-003	3.6400e-003	0.0000	7.0021	7.0021	2.1100e-003	0.0000	7.0465
Total	**7.1100e-003**	**0.0860**	**0.0554**	**7.0000e-005**	**8.7500e-003**	**3.9600e-003**	**0.0127**	**9.4000e-004**	**3.6400e-003**	**4.5800e-003**	**0.0000**	**7.0021**	**7.0021**	**2.1100e-003**	**0.0000**	**7.0465**

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	1.5700e-003	0.0253	0.0191	6.0000e-005	1.4600e-003	3.6000e-004	1.8200e-003	4.0000e-004	3.3000e-004	7.3000e-004	0.0000	5.8324	5.8324	4.0000e-005	0.0000	5.8333
Vendor	1.0000e-004	1.0100e-003	1.3100e-003	0.0000	7.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2190	0.2190	0.0000	0.0000	0.2190
Worker	1.2000e-004	1.8000e-004	1.8300e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2941	0.2941	2.0000e-005	0.0000	0.2944
Total	**1.7900e-003**	**0.0264**	**0.0223**	**6.0000e-005**	**1.8300e-003**	**3.8000e-004**	**2.2000e-003**	**5.0000e-004**	**3.4000e-004**	**8.4000e-004**	**0.0000**	**6.3454**	**6.3454**	**6.0000e-005**	**0.0000**	**6.3467**

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					3.4100e-003	0.0000	3.4100e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0860	0.0554	7.0000e-005		3.9600e-003	3.9600e-003		3.6400e-003	3.6400e-003	0.0000	7.0021	7.0021	2.1100e-003	0.0000	7.0465
Total	**7.1100e-003**	**0.0860**	**0.0554**	**7.0000e-005**	**3.4100e-003**	**3.9600e-003**	**7.3700e-003**	**3.7000e-004**	**3.6400e-003**	**4.0100e-003**	**0.0000**	**7.0021**	**7.0021**	**2.1100e-003**	**0.0000**	**7.0465**

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	1.5700e-003	0.0253	0.0191	6.0000e-005	1.4600e-003	3.6000e-004	1.8200e-003	4.0000e-004	3.3000e-004	7.3000e-004	0.0000	5.8324	5.8324	4.0000e-005	0.0000	5.8333
Vendor	1.0000e-004	1.0100e-003	1.3100e-003	0.0000	7.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2190	0.2190	0.0000	0.0000	0.2190
Worker	1.2000e-004	1.8000e-004	1.8300e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2941	0.2941	2.0000e-005	0.0000	0.2944
Total	**1.7900e-003**	**0.0264**	**0.0223**	**6.0000e-005**	**1.8300e-003**	**3.8000e-004**	**2.2000e-003**	**5.0000e-004**	**3.4000e-004**	**8.4000e-004**	**0.0000**	**6.3454**	**6.3454**	**6.0000e-005**	**0.0000**	**6.3467**

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0819	0.7879	0.5767	7.5000e-004		0.0589	0.0589		0.0542	0.0542	0.0000	71.1174	71.1174	0.0215	0.0000	71.5679
Total	**0.0819**	**0.7879**	**0.5767**	**7.5000e-004**		**0.0589**	**0.0589**		**0.0542**	**0.0542**	**0.0000**	**71.1174**	**71.1174**	**0.0215**	**0.0000**	**71.5679**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0121	0.0157	3.0000e-005	8.1000e-004	1.8000e-004	9.9000e-004	2.3000e-004	1.7000e-004	4.0000e-004	0.0000	2.6279	2.6279	2.0000e-005	0.0000	2.6283
Worker	1.1500e-003	1.6800e-003	0.0176	4.0000e-005	2.8900e-003	3.0000e-005	2.9200e-003	7.7000e-004	3.0000e-005	7.9000e-004	0.0000	2.8229	2.8229	1.6000e-004	0.0000	2.8263
Total	**2.3400e-003**	**0.0138**	**0.0333**	**7.0000e-005**	**3.7000e-003**	**2.1000e-004**	**3.9100e-003**	**1.0000e-003**	**2.0000e-004**	**1.1900e-003**	**0.0000**	**5.4508**	**5.4508**	**1.8000e-004**	**0.0000**	**5.4546**

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	0.0819	0.7879	0.5767	7.5000e-004		0.0589	0.0589		0.0542	0.0542	0.0000	71.1173	71.1173	0.0215	0.0000	71.5678
Total	**0.0819**	**0.7879**	**0.5767**	**7.5000e-004**		**0.0589**	**0.0589**		**0.0542**	**0.0542**	**0.0000**	**71.1173**	**71.1173**	**0.0215**	**0.0000**	**71.5678**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0121	0.0157	3.0000e-005	8.1000e-004	1.8000e-004	9.9000e-004	2.3000e-004	1.7000e-004	4.0000e-004	0.0000	2.6279	2.6279	2.0000e-005	0.0000	2.6283
Worker	1.1500e-003	1.6800e-003	0.0176	4.0000e-005	2.8900e-003	3.0000e-005	2.9200e-003	7.7000e-004	3.0000e-005	7.9000e-004	0.0000	2.8229	2.8229	1.6000e-004	0.0000	2.8263
Total	**2.3400e-003**	**0.0138**	**0.0333**	**7.0000e-005**	**3.7000e-003**	**2.1000e-004**	**3.9100e-003**	**1.0000e-003**	**2.0000e-004**	**1.1900e-003**	**0.0000**	**5.4508**	**5.4508**	**1.8000e-004**	**0.0000**	**5.4546**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.2569	0.1935	1.8000e-004		0.0134	0.0134		0.0124	0.0124	0.0000	16.9704	16.9704	5.1200e-003	0.0000	17.0779
Total	**0.0237**	**0.2569**	**0.1935**	**1.8000e-004**	**0.0983**	**0.0134**	**0.1117**	**0.0505**	**0.0124**	**0.0629**	**0.0000**	**16.9704**	**16.9704**	**5.1200e-003**	**0.0000**	**17.0779**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	5.4600e-003	4.1400e-003	1.0000e-005	3.2000e-004	8.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.2620	1.2620	1.0000e-005	0.0000	1.2622
Vendor	3.6000e-004	3.6600e-003	4.7500e-003	1.0000e-005	2.5000e-004	5.0000e-005	3.0000e-004	7.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.7963	0.7963	1.0000e-005	0.0000	0.7965
Worker	4.4000e-004	6.4000e-004	6.6500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0693	1.0693	6.0000e-005	0.0000	1.0706
Total	**1.1400e-003**	**9.7600e-003**	**0.0155**	**3.0000e-005**	**1.6700e-003**	**1.4000e-004**	**1.8000e-003**	**4.5000e-004**	**1.3000e-004**	**5.8000e-004**	**0.0000**	**3.1276**	**3.1276**	**8.0000e-005**	**0.0000**	**3.1292**

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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.2569	0.1935	1.8000e-004		0.0134	0.0134		0.0124	0.0124	0.0000	16.9704	16.9704	5.1200e-003	0.0000	17.0779
Total	**0.0237**	**0.2569**	**0.1935**	**1.8000e-004**	**0.0383**	**0.0134**	**0.0518**	**0.0197**	**0.0124**	**0.0321**	**0.0000**	**16.9704**	**16.9704**	**5.1200e-003**	**0.0000**	**17.0779**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	5.4600e-003	4.1400e-003	1.0000e-005	3.2000e-004	8.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.2620	1.2620	1.0000e-005	0.0000	1.2622
Vendor	3.6000e-004	3.6600e-003	4.7500e-003	1.0000e-005	2.5000e-004	5.0000e-005	3.0000e-004	7.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.7963	0.7963	1.0000e-005	0.0000	0.7965
Worker	4.4000e-004	6.4000e-004	6.6500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0693	1.0693	6.0000e-005	0.0000	1.0706
Total	**1.1400e-003**	**9.7600e-003**	**0.0155**	**3.0000e-005**	**1.6700e-003**	**1.4000e-004**	**1.8000e-003**	**4.5000e-004**	**1.3000e-004**	**5.8000e-004**	**0.0000**	**3.1276**	**3.1276**	**8.0000e-005**	**0.0000**	**3.1292**

3.5 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5800e-003	0.0375	0.0294	4.0000e-005		2.4800e-003	2.4800e-003		2.2800e-003	2.2800e-003	0.0000	3.8575	3.8575	1.1600e-003	0.0000	3.8820
Total	**3.5800e-003**	**0.0375**	**0.0294**	**4.0000e-005**		**2.4800e-003**	**2.4800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**3.8575**	**3.8575**	**1.1600e-003**	**0.0000**	**3.8820**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	1.3400e-003	0.0140	3.0000e-005	8.2800e-003	2.0000e-005	8.3100e-003	2.0800e-003	2.0000e-005	2.1000e-003	0.0000	2.2455	2.2455	1.3000e-004	0.0000	2.2482
Total	**9.2000e-004**	**1.3400e-003**	**0.0140**	**3.0000e-005**	**8.2800e-003**	**2.0000e-005**	**8.3100e-003**	**2.0800e-003**	**2.0000e-005**	**2.1000e-003**	**0.0000**	**2.2455**	**2.2455**	**1.3000e-004**	**0.0000**	**2.2482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5800e-003	0.0375	0.0294	4.0000e-005		2.4800e-003	2.4800e-003		2.2800e-003	2.2800e-003	0.0000	3.8575	3.8575	1.1600e-003	0.0000	3.8819
Total	**3.5800e-003**	**0.0375**	**0.0294**	**4.0000e-005**		**2.4800e-003**	**2.4800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**3.8575**	**3.8575**	**1.1600e-003**	**0.0000**	**3.8819**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	1.3400e-003	0.0140	3.0000e-005	8.2800e-003	2.0000e-005	8.3100e-003	2.0800e-003	2.0000e-005	2.1000e-003	0.0000	2.2455	2.2455	1.3000e-004	0.0000	2.2482
Total	**9.2000e-004**	**1.3400e-003**	**0.0140**	**3.0000e-005**	**8.2800e-003**	**2.0000e-005**	**8.3100e-003**	**2.0800e-003**	**2.0000e-005**	**2.1000e-003**	**0.0000**	**2.2455**	**2.2455**	**1.3000e-004**	**0.0000**	**2.2482**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7400e-003	0.0580	0.0401	6.0000e-005		3.8100e-003	3.8100e-003		3.5000e-003	3.5000e-003	0.0000	5.2700	5.2700	1.5900e-003	0.0000	5.3034
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7400e-003**	**0.0580**	**0.0401**	**6.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**5.2700**	**5.2700**	**1.5900e-003**	**0.0000**	**5.3034**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	5.0000e-004	5.1900e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8340	0.8340	5.0000e-005	0.0000	0.8350
Total	**3.4000e-004**	**5.0000e-004**	**5.1900e-003**	**1.0000e-005**	**8.5000e-004**	**1.0000e-005**	**8.6000e-004**	**2.3000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.8340**	**0.8340**	**5.0000e-005**	**0.0000**	**0.8350**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7400e-003	0.0580	0.0401	6.0000e-005		3.8100e-003	3.8100e-003		3.5000e-003	3.5000e-003	0.0000	5.2700	5.2700	1.5900e-003	0.0000	5.3034
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7400e-003**	**0.0580**	**0.0401**	**6.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**5.2700**	**5.2700**	**1.5900e-003**	**0.0000**	**5.3034**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	5.0000e-004	5.1900e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.8340	0.8340	5.0000e-005	0.0000	0.8350
Total	**3.4000e-004**	**5.0000e-004**	**5.1900e-003**	**1.0000e-005**	**8.5000e-004**	**1.0000e-005**	**8.6000e-004**	**2.3000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.8340**	**0.8340**	**5.0000e-005**	**0.0000**	**0.8350**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0175	0.0136	2.0000e-005		1.1800e-003	1.1800e-003		1.0800e-003	1.0800e-003	0.0000	1.7569	1.7569	5.3000e-004	0.0000	1.7681
Total	**0.0877**	**0.0175**	**0.0136**	**2.0000e-005**		**1.1800e-003**	**1.1800e-003**		**1.0800e-003**	**1.0800e-003**	**0.0000**	**1.7569**	**1.7569**	**5.3000e-004**	**0.0000**	**1.7681**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	3.0000e-005	3.3000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0535	0.0535	0.0000	0.0000	0.0535
Total	**2.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0535**	**0.0535**	**0.0000**	**0.0000**	**0.0535**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0175	0.0136	2.0000e-005		1.1800e-003	1.1800e-003		1.0800e-003	1.0800e-003	0.0000	1.7569	1.7569	5.3000e-004	0.0000	1.7681
Total	**0.0877**	**0.0175**	**0.0136**	**2.0000e-005**		**1.1800e-003**	**1.1800e-003**		**1.0800e-003**	**1.0800e-003**	**0.0000**	**1.7569**	**1.7569**	**5.3000e-004**	**0.0000**	**1.7681**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	3.0000e-005	3.3000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0535	0.0535	0.0000	0.0000	0.0535
Total	**2.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0535**	**0.0535**	**0.0000**	**0.0000**	**0.0535**

ALDI Food Market Construction

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Construction Phase - Modified per ALDI Construction Schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Trips and VMT - Modified per ALDI construction schedule

Grading - Modified per ALDI construction schedule

Architectural Coating - Modified per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblConstructionPhase	NumDays	200.00	88.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	PhaseEndDate	10/14/2016	10/15/2016
tblConstructionPhase	PhaseEndDate	10/17/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	11/25/2016	8/10/2016
tblConstructionPhase	PhaseEndDate	9/6/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	8/19/2016	8/21/2016
tblConstructionPhase	PhaseStartDate	6/16/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	10/2/2016	6/16/2016
tblConstructionPhase	PhaseStartDate	8/22/2016	9/15/2016
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	AcresOfGrading	8.25	16.50
tblGrading	MaterialExported	0.00	298.00
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	5.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	0.00	171.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	17.5373	38.4023	27.5454	0.0450	5.0853	2.1310	7.1078	2.5716	1.9605	4.4323	0.0000	4,600.4196	4,600.4196	0.9775	0.0000	4,620.9479
Total	**17.5373**	**38.4023**	**27.5454**	**0.0450**	**5.0853**	**2.1310**	**7.1078**	**2.5716**	**1.9605**	**4.4323**	**0.0000**	**4,600.4196**	**4,600.4196**	**0.9775**	**0.0000**	**4,620.9479**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	17.5373	38.4023	27.5454	0.0450	2.5056	2.1310	4.5645	1.0309	1.9605	2.8916	0.0000	4,600.4196	4,600.4196	0.9775	0.0000	4,620.9479
Total	**17.5373**	**38.4023**	**27.5454**	**0.0450**	**2.5056**	**2.1310**	**4.5645**	**1.0309**	**1.9605**	**2.8916**	**0.0000**	**4,600.4196**	**4,600.4196**	**0.9775**	**0.0000**	**4,620.9479**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.73**	**0.00**	**35.78**	**59.91**	**0.00**	**34.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2016	6/15/2016	5	11	
2	Building Construction	Building Construction	6/1/2016	10/1/2016	5	88	
3	Grading	Grading	6/16/2016	8/10/2016	5	40	
4	Trenching	Trenching	8/11/2016	8/21/2016	5	7	
5	Paving	Paving	9/15/2016	10/1/2016	5	12	
6	Architectural Coating	Architectural Coating	10/2/2016	10/15/2016	5	10	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 27,836; Non-Residential Outdoor: 9,279 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	255	0.40
Site Preparation	Scrapers	1	6.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Aerial Lifts	1	5.00	62	0.31
Building Construction	Cranes	0	6.00	226	0.29
Building Construction	Forklifts	9	5.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	5.00	100	0.40
Building Construction	Skid Steer Loaders	1	5.00	64	0.37
Building Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37

Building Construction	Welders	0	8.00	46	0.45
Grading	Graders	0	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Excavators	1	5.00	162	0.38
Trenching	Graders	0	8.00	174	0.41
Trenching	Graders	0	6.00	174	0.41
Trenching	Graders	0	8.00	174	0.41
Trenching	Rubber Tired Dozers	0	6.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Skid Steer Loaders	2	5.00	64	0.37
Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	5.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	5.00	125	0.42
Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	2	5.00	80	0.38
Paving	Skid Steer Loaders	1	5.00	64	0.37
Paving	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Architectural Coating	Air Compressors	0	3.00	78	0.48
Architectural Coating	Forklifts	2	3.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	2	3.00	100	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	171.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	6.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	2.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.2923	15.6381	10.0756	0.0135		0.7199	0.7199		0.6623	0.6623		1,403.3646	1,403.3646	0.4233		1,412.2540
Total	**1.2923**	**15.6381**	**10.0756**	**0.0135**	**1.5908**	**0.7199**	**2.3106**	**0.1718**	**0.6623**	**0.8341**		**1,403.3646**	**1,403.3646**	**0.4233**		**1,412.2540**

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	0.2738	4.3577	3.0924	0.0116	0.2707	0.0645	0.3352	0.0741	0.0594	0.1335		1,170.0821	1,170.0821	8.6500e-003		1,170.2638
Vendor	0.0169	0.1750	0.2033	4.4000e-004	0.0125	2.7400e-003	0.0152	3.5500e-003	2.5200e-003	6.0600e-003		44.0441	44.0441	3.2000e-004		44.0509
Worker	0.0223	0.0280	0.3469	7.3000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		61.4511	61.4511	3.3500e-003		61.5213
Total	**0.3129**	**4.5608**	**3.6426**	**0.0128**	**0.3391**	**0.0678**	**0.4069**	**0.0925**	**0.0624**	**0.1548**		**1,275.5773**	**1,275.5773**	**0.0123**		**1,275.8360**

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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	1.2923	15.6381	10.0756	0.0135		0.7199	0.7199		0.6623	0.6623	0.0000	1,403.3646	1,403.3646	0.4233		1,412.2540
Total	**1.2923**	**15.6381**	**10.0756**	**0.0135**	**0.6204**	**0.7199**	**1.3403**	**0.0670**	**0.6623**	**0.7293**	**0.0000**	**1,403.3646**	**1,403.3646**	**0.4233**		**1,412.2540**

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	0.2738	4.3577	3.0924	0.0116	0.2707	0.0645	0.3352	0.0741	0.0594	0.1335		1,170.0821	1,170.0821	8.6500e-003		1,170.2638
Vendor	0.0169	0.1750	0.2033	4.4000e-004	0.0125	2.7400e-003	0.0152	3.5500e-003	2.5200e-003	6.0600e-003		44.0441	44.0441	3.2000e-004		44.0509
Worker	0.0223	0.0280	0.3469	7.3000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		61.4511	61.4511	3.3500e-003		61.5213
Total	**0.3129**	**4.5608**	**3.6426**	**0.0128**	**0.3391**	**0.0678**	**0.4069**	**0.0925**	**0.0624**	**0.1548**		**1,275.5773**	**1,275.5773**	**0.0123**		**1,275.8360**

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8617	17.9074	13.1060	0.0171		1.3386	1.3386		1.2315	1.2315		1,781.6703	1,781.6703	0.5374		1,792.9560
Total	**1.8617**	**17.9074**	**13.1060**	**0.0171**		**1.3386**	**1.3386**		**1.2315**	**1.2315**		**1,781.6703**	**1,781.6703**	**0.5374**		**1,792.9560**

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	0.0253	0.2625	0.3050	6.6000e-004	0.0187	4.1000e-003	0.0228	5.3200e-003	3.7700e-003	9.1000e-003		66.0662	66.0662	4.8000e-004		66.0764
Worker	0.0267	0.0336	0.4162	8.7000e-004	0.0671	6.3000e-004	0.0677	0.0178	5.8000e-004	0.0184		73.7413	73.7413	4.0100e-003		73.8256
Total	**0.0520**	**0.2962**	**0.7212**	**1.5300e-003**	**0.0858**	**4.7300e-003**	**0.0905**	**0.0231**	**4.3500e-003**	**0.0275**		**139.8075**	**139.8075**	**4.4900e-003**		**139.9020**

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	1.8617	17.9074	13.1060	0.0171		1.3386	1.3386		1.2315	1.2315	0.0000	1,781.6703	1,781.6703	0.5374		1,792.9560
Total	**1.8617**	**17.9074**	**13.1060**	**0.0171**		**1.3386**	**1.3386**		**1.2315**	**1.2315**	**0.0000**	**1,781.6703**	**1,781.6703**	**0.5374**		**1,792.9560**

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	0.0253	0.2625	0.3050	6.6000e-004	0.0187	4.1000e-003	0.0228	5.3200e-003	3.7700e-003	9.1000e-003		66.0662	66.0662	4.8000e-004		66.0764
Worker	0.0267	0.0336	0.4162	8.7000e-004	0.0671	6.3000e-004	0.0677	0.0178	5.8000e-004	0.0184		73.7413	73.7413	4.0100e-003		73.8256
Total	**0.0520**	**0.2962**	**0.7212**	**1.5300e-003**	**0.0858**	**4.7300e-003**	**0.0905**	**0.0231**	**4.3500e-003**	**0.0275**		**139.8075**	**139.8075**	**4.4900e-003**		**139.9020**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9151	0.0000	4.9151	2.5257	0.0000	2.5257			0.0000			0.0000
Off-Road	1.1841	12.8443	9.6732	8.9900e-003		0.6720	0.6720		0.6183	0.6183		935.3320	935.3320	0.2821		941.2567
Total	**1.1841**	**12.8443**	**9.6732**	**8.9900e-003**	**4.9151**	**0.6720**	**5.5871**	**2.5257**	**0.6183**	**3.1440**		**935.3320**	**935.3320**	**0.2821**		**941.2567**

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	0.0163	0.2593	0.1840	6.9000e-004	0.0161	3.8400e-003	0.0200	4.4100e-003	3.5300e-003	7.9400e-003		69.6233	69.6233	5.1000e-004		69.6341
Vendor	0.0169	0.1750	0.2033	4.4000e-004	0.0125	2.7400e-003	0.0152	3.5500e-003	2.5200e-003	6.0600e-003		44.0441	44.0441	3.2000e-004		44.0509
Worker	0.0223	0.0280	0.3469	7.3000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		61.4511	61.4511	3.3500e-003		61.5213
Total	**0.0554**	**0.4624**	**0.7342**	**1.8600e-003**	**0.0845**	**7.1100e-003**	**0.0916**	**0.0228**	**6.5400e-003**	**0.0293**		**175.1185**	**175.1185**	**4.1800e-003**		**175.2063**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9169	0.0000	1.9169	0.9850	0.0000	0.9850			0.0000			0.0000
Off-Road	1.1841	12.8443	9.6732	8.9900e-003		0.6720	0.6720		0.6183	0.6183	0.0000	935.3320	935.3320	0.2821		941.2567
Total	**1.1841**	**12.8443**	**9.6732**	**8.9900e-003**	**1.9169**	**0.6720**	**2.5889**	**0.9850**	**0.6183**	**1.6033**	**0.0000**	**935.3320**	**935.3320**	**0.2821**		**941.2567**

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	0.0163	0.2593	0.1840	6.9000e-004	0.0161	3.8400e-003	0.0200	4.4100e-003	3.5300e-003	7.9400e-003		69.6233	69.6233	5.1000e-004		69.6341
Vendor	0.0169	0.1750	0.2033	4.4000e-004	0.0125	2.7400e-003	0.0152	3.5500e-003	2.5200e-003	6.0600e-003		44.0441	44.0441	3.2000e-004		44.0509
Worker	0.0223	0.0280	0.3469	7.3000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		61.4511	61.4511	3.3500e-003		61.5213
Total	**0.0554**	**0.4624**	**0.7342**	**1.8600e-003**	**0.0845**	**7.1100e-003**	**0.0916**	**0.0228**	**6.5400e-003**	**0.0293**		**175.1185**	**175.1185**	**4.1800e-003**		**175.2063**

3.5 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0238	10.7177	8.4037	0.0117		0.7092	0.7092		0.6525	0.6525		1,214.9085	1,214.9085	0.3665		1,222.6041
Total	**1.0238**	**10.7177**	**8.4037**	**0.0117**		**0.7092**	**0.7092**		**0.6525**	**0.6525**		**1,214.9085**	**1,214.9085**	**0.3665**		**1,222.6041**

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	0.2672	0.3363	4.1622	8.7200e-003	2.4198	6.3400e-003	2.4262	0.6072	5.8300e-003	0.6130		737.4128	737.4128	0.0401		738.2558
Total	**0.2672**	**0.3363**	**4.1622**	**8.7200e-003**	**2.4198**	**6.3400e-003**	**2.4262**	**0.6072**	**5.8300e-003**	**0.6130**		**737.4128**	**737.4128**	**0.0401**		**738.2558**

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	1.0238	10.7177	8.4037	0.0117		0.7092	0.7092		0.6525	0.6525	0.0000	1,214.9085	1,214.9085	0.3665		1,222.6041
Total	**1.0238**	**10.7177**	**8.4037**	**0.0117**		**0.7092**	**0.7092**		**0.6525**	**0.6525**	**0.0000**	**1,214.9085**	**1,214.9085**	**0.3665**		**1,222.6041**

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	0.2672	0.3363	4.1622	8.7200e-003	2.4198	6.3400e-003	2.4262	0.6072	5.8300e-003	0.6130		737.4128	737.4128	0.0401		738.2558
Total	**0.2672**	**0.3363**	**4.1622**	**8.7200e-003**	**2.4198**	**6.3400e-003**	**2.4262**	**0.6072**	**5.8300e-003**	**0.6130**		**737.4128**	**737.4128**	**0.0401**		**738.2558**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9559	9.6686	6.6759	9.3100e-003		0.6348	0.6348		0.5841	0.5841		968.1947	968.1947	0.2920		974.3276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9559**	**9.6686**	**6.6759**	**9.3100e-003**		**0.6348**	**0.6348**		**0.5841**	**0.5841**		**968.1947**	**968.1947**	**0.2920**		**974.3276**

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	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		159.7728	159.7728	8.7000e-003		159.9554
Total	**0.0579**	**0.0729**	**0.9018**	**1.8900e-003**	**0.1453**	**1.3700e-003**	**0.1467**	**0.0385**	**1.2600e-003**	**0.0398**		**159.7728**	**159.7728**	**8.7000e-003**		**159.9554**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9559	9.6686	6.6759	9.3100e-003		0.6348	0.6348		0.5841	0.5841	0.0000	968.1947	968.1947	0.2920		974.3276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9559**	**9.6686**	**6.6759**	**9.3100e-003**		**0.6348**	**0.6348**		**0.5841**	**0.5841**	**0.0000**	**968.1947**	**968.1947**	**0.2920**		**974.3276**

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	0.0579	0.0729	0.9018	1.8900e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		159.7728	159.7728	8.7000e-003		159.9554
Total	**0.0579**	**0.0729**	**0.9018**	**1.8900e-003**	**0.1453**	**1.3700e-003**	**0.1467**	**0.0385**	**1.2600e-003**	**0.0398**		**159.7728**	**159.7728**	**8.7000e-003**		**159.9554**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3298	3.4968	2.7154	3.7300e-003		0.2353	0.2353		0.2165	0.2165		387.3348	387.3348	0.1168		389.7883
Total	**17.5328**	**3.4968**	**2.7154**	**3.7300e-003**		**0.2353**	**0.2353**		**0.2165**	**0.2165**		**387.3348**	**387.3348**	**0.1168**		**389.7883**

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	4.4500e-003	5.6100e-003	0.0694	1.5000e-004	0.0112	1.1000e-004	0.0113	2.9600e-003	1.0000e-004	3.0600e-003		12.2902	12.2902	6.7000e-004		12.3043
Total	**4.4500e-003**	**5.6100e-003**	**0.0694**	**1.5000e-004**	**0.0112**	**1.1000e-004**	**0.0113**	**2.9600e-003**	**1.0000e-004**	**3.0600e-003**		**12.2902**	**12.2902**	**6.7000e-004**		**12.3043**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3298	3.4968	2.7154	3.7300e-003		0.2353	0.2353		0.2165	0.2165	0.0000	387.3348	387.3348	0.1168		389.7883
Total	**17.5328**	**3.4968**	**2.7154**	**3.7300e-003**		**0.2353**	**0.2353**		**0.2165**	**0.2165**	**0.0000**	**387.3348**	**387.3348**	**0.1168**		**389.7883**

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	4.4500e-003	5.6100e-003	0.0694	1.5000e-004	0.0112	1.1000e-004	0.0113	2.9600e-003	1.0000e-004	3.0600e-003		12.2902	12.2902	6.7000e-004		12.3043
Total	**4.4500e-003**	**5.6100e-003**	**0.0694**	**1.5000e-004**	**0.0112**	**1.1000e-004**	**0.0113**	**2.9600e-003**	**1.0000e-004**	**3.0600e-003**		**12.2902**	**12.2902**	**6.7000e-004**		**12.3043**

ALDI Food Market Construction

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Construction Phase - Modified per ALDI Construction Schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Off-road Equipment - modified per ALDI construction schedule

Off-road Equipment - Modified per ALDI construction schedule

Trips and VMT - Modified per ALDI construction schedule

Grading - Modified per ALDI construction schedule

Architectural Coating - Modified per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Modified per SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblConstructionPhase	NumDays	200.00	88.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	2.00	11.00
tblConstructionPhase	PhaseEndDate	10/14/2016	10/15/2016
tblConstructionPhase	PhaseEndDate	10/17/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	11/25/2016	8/10/2016
tblConstructionPhase	PhaseEndDate	9/6/2016	10/1/2016
tblConstructionPhase	PhaseEndDate	8/19/2016	8/21/2016
tblConstructionPhase	PhaseStartDate	6/16/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	10/2/2016	6/16/2016
tblConstructionPhase	PhaseStartDate	8/22/2016	9/15/2016
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	AcresOfGrading	8.25	16.50
tblGrading	MaterialExported	0.00	298.00
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	6.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	5.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripNumber	0.00	171.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	17.5375	38.5733	28.1012	0.0448	5.0853	2.1312	7.1078	2.5716	1.9607	4.4323	0.0000	4,589.1695	4,589.1695	0.9777	0.0000	4,609.7007
Total	**17.5375**	**38.5733**	**28.1012**	**0.0448**	**5.0853**	**2.1312**	**7.1078**	**2.5716**	**1.9607**	**4.4323**	**0.0000**	**4,589.1695**	**4,589.1695**	**0.9777**	**0.0000**	**4,609.7007**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2016	17.5375	38.5733	28.1012	0.0448	2.5056	2.1312	4.5645	1.0309	1.9607	2.8916	0.0000	4,589.1695	4,589.1695	0.9777	0.0000	4,609.7007
Total	**17.5375**	**38.5733**	**28.1012**	**0.0448**	**2.5056**	**2.1312**	**4.5645**	**1.0309**	**1.9607**	**2.8916**	**0.0000**	**4,589.1695**	**4,589.1695**	**0.9777**	**0.0000**	**4,609.7007**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.73**	**0.00**	**35.78**	**59.91**	**0.00**	**34.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2016	6/15/2016	5	11	
2	Building Construction	Building Construction	6/1/2016	10/1/2016	5	88	
3	Grading	Grading	6/16/2016	8/10/2016	5	40	
4	Trenching	Trenching	8/11/2016	8/21/2016	5	7	
5	Paving	Paving	9/15/2016	10/1/2016	5	12	
6	Architectural Coating	Architectural Coating	10/2/2016	10/15/2016	5	10	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 27,836; Non-Residential Outdoor: 9,279 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	255	0.40
Site Preparation	Scrapers	1	6.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Aerial Lifts	1	5.00	62	0.31
Building Construction	Cranes	0	6.00	226	0.29
Building Construction	Forklifts	9	5.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	2	5.00	100	0.40
Building Construction	Skid Steer Loaders	1	5.00	64	0.37
Building Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37

Building Construction	Welders	0	8.00	46	0.45
Grading	Graders	0	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Excavators	1	5.00	162	0.38
Trenching	Graders	0	8.00	174	0.41
Trenching	Graders	0	6.00	174	0.41
Trenching	Graders	0	8.00	174	0.41
Trenching	Rubber Tired Dozers	0	6.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Rubber Tired Dozers	0	7.00	255	0.40
Trenching	Skid Steer Loaders	2	5.00	64	0.37
Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	3	5.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	5.00	125	0.42
Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	2	5.00	80	0.38
Paving	Skid Steer Loaders	1	5.00	64	0.37
Paving	Tractors/Loaders/Backhoes	1	5.00	97	0.37
Architectural Coating	Air Compressors	0	3.00	78	0.48
Architectural Coating	Forklifts	2	3.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	2	3.00	100	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	171.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	6.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	2.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.2923	15.6381	10.0756	0.0135		0.7199	0.7199		0.6623	0.6623		1,403.3646	1,403.3646	0.4233		1,412.2540
Total	**1.2923**	**15.6381**	**10.0756**	**0.0135**	**1.5908**	**0.7199**	**2.3106**	**0.1718**	**0.6623**	**0.8341**		**1,403.3646**	**1,403.3646**	**0.4233**		**1,412.2540**

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	0.2900	4.5109	3.5843	0.0116	0.2707	0.0647	0.3354	0.0741	0.0595	0.1336		1,167.3352	1,167.3352	8.7600e-003		1,167.5192
Vendor	0.0186	0.1794	0.2476	4.4000e-004	0.0125	2.7700e-003	0.0152	3.5500e-003	2.5400e-003	6.0900e-003		43.6784	43.6784	3.3000e-004		43.6854
Worker	0.0232	0.0311	0.3257	6.9000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		58.0016	58.0016	3.3500e-003		58.0718
Total	**0.3317**	**4.7214**	**4.1575**	**0.0127**	**0.3391**	**0.0680**	**0.4071**	**0.0925**	**0.0625**	**0.1550**		**1,269.0152**	**1,269.0152**	**0.0124**		**1,269.2764**

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					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	1.2923	15.6381	10.0756	0.0135		0.7199	0.7199		0.6623	0.6623	0.0000	1,403.3646	1,403.3646	0.4233		1,412.2540
Total	**1.2923**	**15.6381**	**10.0756**	**0.0135**	**0.6204**	**0.7199**	**1.3403**	**0.0670**	**0.6623**	**0.7293**	**0.0000**	**1,403.3646**	**1,403.3646**	**0.4233**		**1,412.2540**

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	0.2900	4.5109	3.5843	0.0116	0.2707	0.0647	0.3354	0.0741	0.0595	0.1336		1,167.3352	1,167.3352	8.7600e-003		1,167.5192
Vendor	0.0186	0.1794	0.2476	4.4000e-004	0.0125	2.7700e-003	0.0152	3.5500e-003	2.5400e-003	6.0900e-003		43.6784	43.6784	3.3000e-004		43.6854
Worker	0.0232	0.0311	0.3257	6.9000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		58.0016	58.0016	3.3500e-003		58.0718
Total	**0.3317**	**4.7214**	**4.1575**	**0.0127**	**0.3391**	**0.0680**	**0.4071**	**0.0925**	**0.0625**	**0.1550**		**1,269.0152**	**1,269.0152**	**0.0124**		**1,269.2764**

3.3 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8617	17.9074	13.1060	0.0171		1.3386	1.3386		1.2315	1.2315		1,781.6703	1,781.6703	0.5374		1,792.9560
Total	**1.8617**	**17.9074**	**13.1060**	**0.0171**		**1.3386**	**1.3386**		**1.2315**	**1.2315**		**1,781.6703**	**1,781.6703**	**0.5374**		**1,792.9560**

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	0.0279	0.2691	0.3714	6.5000e-004	0.0187	4.1500e-003	0.0229	5.3200e-003	3.8100e-003	9.1400e-003		65.5176	65.5176	5.0000e-004		65.5281
Worker	0.0278	0.0373	0.3908	8.2000e-004	0.0671	6.3000e-004	0.0677	0.0178	5.8000e-004	0.0184		69.6019	69.6019	4.0100e-003		69.6862
Total	**0.0557**	**0.3064**	**0.7622**	**1.4700e-003**	**0.0858**	**4.7800e-003**	**0.0906**	**0.0231**	**4.3900e-003**	**0.0275**		**135.1195**	**135.1195**	**4.5100e-003**		**135.2143**

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	1.8617	17.9074	13.1060	0.0171		1.3386	1.3386		1.2315	1.2315	0.0000	1,781.6703	1,781.6703	0.5374		1,792.9560
Total	**1.8617**	**17.9074**	**13.1060**	**0.0171**		**1.3386**	**1.3386**		**1.2315**	**1.2315**	**0.0000**	**1,781.6703**	**1,781.6703**	**0.5374**		**1,792.9560**

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	0.0279	0.2691	0.3714	6.5000e-004	0.0187	4.1500e-003	0.0229	5.3200e-003	3.8100e-003	9.1400e-003		65.5176	65.5176	5.0000e-004		65.5281
Worker	0.0278	0.0373	0.3908	8.2000e-004	0.0671	6.3000e-004	0.0677	0.0178	5.8000e-004	0.0184		69.6019	69.6019	4.0100e-003		69.6862
Total	**0.0557**	**0.3064**	**0.7622**	**1.4700e-003**	**0.0858**	**4.7800e-003**	**0.0906**	**0.0231**	**4.3900e-003**	**0.0275**		**135.1195**	**135.1195**	**4.5100e-003**		**135.2143**

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9151	0.0000	4.9151	2.5257	0.0000	2.5257			0.0000			0.0000
Off-Road	1.1841	12.8443	9.6732	8.9900e-003		0.6720	0.6720		0.6183	0.6183		935.3320	935.3320	0.2821		941.2567
Total	**1.1841**	**12.8443**	**9.6732**	**8.9900e-003**	**4.9151**	**0.6720**	**5.5871**	**2.5257**	**0.6183**	**3.1440**		**935.3320**	**935.3320**	**0.2821**		**941.2567**

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	0.0173	0.2684	0.2133	6.9000e-004	0.0161	3.8500e-003	0.0200	4.4100e-003	3.5400e-003	7.9500e-003		69.4599	69.4599	5.2000e-004		69.4708
Vendor	0.0186	0.1794	0.2476	4.4000e-004	0.0125	2.7700e-003	0.0152	3.5500e-003	2.5400e-003	6.0900e-003		43.6784	43.6784	3.3000e-004		43.6854
Worker	0.0232	0.0311	0.3257	6.9000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		58.0016	58.0016	3.3500e-003		58.0718
Total	**0.0590**	**0.4789**	**0.7865**	**1.8200e-003**	**0.0845**	**7.1500e-003**	**0.0916**	**0.0228**	**6.5700e-003**	**0.0294**		**171.1398**	**171.1398**	**4.2000e-003**		**171.2280**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9169	0.0000	1.9169	0.9850	0.0000	0.9850			0.0000			0.0000
Off-Road	1.1841	12.8443	9.6732	8.9900e-003		0.6720	0.6720		0.6183	0.6183	0.0000	935.3320	935.3320	0.2821		941.2567
Total	**1.1841**	**12.8443**	**9.6732**	**8.9900e-003**	**1.9169**	**0.6720**	**2.5889**	**0.9850**	**0.6183**	**1.6033**	**0.0000**	**935.3320**	**935.3320**	**0.2821**		**941.2567**

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	0.0173	0.2684	0.2133	6.9000e-004	0.0161	3.8500e-003	0.0200	4.4100e-003	3.5400e-003	7.9500e-003		69.4599	69.4599	5.2000e-004		69.4708
Vendor	0.0186	0.1794	0.2476	4.4000e-004	0.0125	2.7700e-003	0.0152	3.5500e-003	2.5400e-003	6.0900e-003		43.6784	43.6784	3.3000e-004		43.6854
Worker	0.0232	0.0311	0.3257	6.9000e-004	0.0559	5.3000e-004	0.0564	0.0148	4.9000e-004	0.0153		58.0016	58.0016	3.3500e-003		58.0718
Total	**0.0590**	**0.4789**	**0.7865**	**1.8200e-003**	**0.0845**	**7.1500e-003**	**0.0916**	**0.0228**	**6.5700e-003**	**0.0294**		**171.1398**	**171.1398**	**4.2000e-003**		**171.2280**

3.5 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0238	10.7177	8.4037	0.0117		0.7092	0.7092		0.6525	0.6525		1,214.9085	1,214.9085	0.3665		1,222.6041
Total	**1.0238**	**10.7177**	**8.4037**	**0.0117**		**0.7092**	**0.7092**		**0.6525**	**0.6525**		**1,214.9085**	**1,214.9085**	**0.3665**		**1,222.6041**

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	0.2780	0.3730	3.9082	8.2300e-003	2.4198	6.3400e-003	2.4262	0.6072	5.8300e-003	0.6130		696.0187	696.0187	0.0401		696.8617
Total	**0.2780**	**0.3730**	**3.9082**	**8.2300e-003**	**2.4198**	**6.3400e-003**	**2.4262**	**0.6072**	**5.8300e-003**	**0.6130**		**696.0187**	**696.0187**	**0.0401**		**696.8617**

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	1.0238	10.7177	8.4037	0.0117		0.7092	0.7092		0.6525	0.6525	0.0000	1,214.9085	1,214.9085	0.3665		1,222.6041
Total	**1.0238**	**10.7177**	**8.4037**	**0.0117**		**0.7092**	**0.7092**		**0.6525**	**0.6525**	**0.0000**	**1,214.9085**	**1,214.9085**	**0.3665**		**1,222.6041**

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	0.2780	0.3730	3.9082	8.2300e-003	2.4198	6.3400e-003	2.4262	0.6072	5.8300e-003	0.6130		696.0187	696.0187	0.0401		696.8617
Total	**0.2780**	**0.3730**	**3.9082**	**8.2300e-003**	**2.4198**	**6.3400e-003**	**2.4262**	**0.6072**	**5.8300e-003**	**0.6130**		**696.0187**	**696.0187**	**0.0401**		**696.8617**

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9559	9.6686	6.6759	9.3100e-003		0.6348	0.6348		0.5841	0.5841		968.1947	968.1947	0.2920		974.3276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9559**	**9.6686**	**6.6759**	**9.3100e-003**		**0.6348**	**0.6348**		**0.5841**	**0.5841**		**968.1947**	**968.1947**	**0.2920**		**974.3276**

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	0.0602	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		150.8040	150.8040	8.7000e-003		150.9867
Total	**0.0602**	**0.0808**	**0.8468**	**1.7800e-003**	**0.1453**	**1.3700e-003**	**0.1467**	**0.0385**	**1.2600e-003**	**0.0398**		**150.8040**	**150.8040**	**8.7000e-003**		**150.9867**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9559	9.6686	6.6759	9.3100e-003		0.6348	0.6348		0.5841	0.5841	0.0000	968.1947	968.1947	0.2920		974.3276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9559**	**9.6686**	**6.6759**	**9.3100e-003**		**0.6348**	**0.6348**		**0.5841**	**0.5841**	**0.0000**	**968.1947**	**968.1947**	**0.2920**		**974.3276**

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	0.0602	0.0808	0.8468	1.7800e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2600e-003	0.0398		150.8040	150.8040	8.7000e-003		150.9867
Total	**0.0602**	**0.0808**	**0.8468**	**1.7800e-003**	**0.1453**	**1.3700e-003**	**0.1467**	**0.0385**	**1.2600e-003**	**0.0398**		**150.8040**	**150.8040**	**8.7000e-003**		**150.9867**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3298	3.4968	2.7154	3.7300e-003		0.2353	0.2353		0.2165	0.2165		387.3348	387.3348	0.1168		389.7883
Total	**17.5328**	**3.4968**	**2.7154**	**3.7300e-003**		**0.2353**	**0.2353**		**0.2165**	**0.2165**		**387.3348**	**387.3348**	**0.1168**		**389.7883**

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	4.6300e-003	6.2200e-003	0.0651	1.4000e-004	0.0112	1.1000e-004	0.0113	2.9600e-003	1.0000e-004	3.0600e-003		11.6003	11.6003	6.7000e-004		11.6144
Total	**4.6300e-003**	**6.2200e-003**	**0.0651**	**1.4000e-004**	**0.0112**	**1.1000e-004**	**0.0113**	**2.9600e-003**	**1.0000e-004**	**3.0600e-003**		**11.6003**	**11.6003**	**6.7000e-004**		**11.6144**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2030					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3298	3.4968	2.7154	3.7300e-003		0.2353	0.2353		0.2165	0.2165	0.0000	387.3348	387.3348	0.1168		389.7883
Total	**17.5328**	**3.4968**	**2.7154**	**3.7300e-003**		**0.2353**	**0.2353**		**0.2165**	**0.2165**	**0.0000**	**387.3348**	**387.3348**	**0.1168**		**389.7883**

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	4.6300e-003	6.2200e-003	0.0651	1.4000e-004	0.0112	1.1000e-004	0.0113	2.9600e-003	1.0000e-004	3.0600e-003		11.6003	11.6003	6.7000e-004		11.6144
Total	**4.6300e-003**	**6.2200e-003**	**0.0651**	**1.4000e-004**	**0.0112**	**1.1000e-004**	**0.0113**	**2.9600e-003**	**1.0000e-004**	**3.0600e-003**		**11.6003**	**11.6003**	**6.7000e-004**		**11.6144**

ALDI Food Market Operation

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Vehicle Trips - Modified per TIA

Area Coating - Modified per SCAQMD Rule 1113

Solid Waste - Revised per Utilities Section

Energy Mitigation - Solar Panels (6,247 kWh per year)

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	104.68	165.78
tblVehicleTrips	ST_TR	177.59	246.55
tblVehicleTrips	SU_TR	166.44	231.07
tblVehicleTrips	WD_TR	102.24	141.94

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0886	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	230.3786	230.3786	9.9900e-003	2.3900e-003	231.3288
Mobile	1.6056	3.0740	13.5395	0.0246	1.5744	0.0381	1.6125	0.4217	0.0350	0.4567	0.0000	1,905.8605	1,905.8605	0.0840	0.0000	1,907.6235
Waste						0.0000	0.0000		0.0000	0.0000	33.6518	0.0000	33.6518	1.9888	0.0000	75.4160
Water						0.0000	0.0000		0.0000	0.0000	0.7258	8.7499	9.4758	0.0750	1.8400e-003	11.6212
Total	**1.6965**	**3.0945**	**13.5570**	**0.0247**	**1.5744**	**0.0396**	**1.6140**	**0.4217**	**0.0366**	**0.4583**	**34.3777**	**2,144.9895**	**2,179.3672**	**2.1577**	**4.2300e-003**	**2,225.9899**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0886	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	228.5909	228.5909	9.9100e-003	2.3700e-003	229.5341
Mobile	1.6056	3.0740	13.5395	0.0246	1.5744	0.0381	1.6125	0.4217	0.0350	0.4567	0.0000	1,905.8605	1,905.8605	0.0840	0.0000	1,907.6235
Waste						0.0000	0.0000		0.0000	0.0000	33.6518	0.0000	33.6518	1.9888	0.0000	75.4160
Water						0.0000	0.0000		0.0000	0.0000	0.7258	8.7499	9.4758	0.0749	1.8400e-003	11.6201
Total	**1.6965**	**3.0945**	**13.5570**	**0.0247**	**1.5744**	**0.0396**	**1.6140**	**0.4217**	**0.0366**	**0.4583**	**34.3777**	**2,143.2018**	**2,177.5795**	**2.1576**	**4.2100e-003**	**2,224.1941**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**	**0.08**	**0.08**	**0.00**	**0.47**	**0.08**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6056	3.0740	13.5395	0.0246	1.5744	0.0381	1.6125	0.4217	0.0350	0.4567	0.0000	1,905.8605	1,905.8605	0.0840	0.0000	1,907.6235
Unmitigated	1.6056	3.0740	13.5395	0.0246	1.5744	0.0381	1.6125	0.4217	0.0350	0.4567	0.0000	1,905.8605	1,905.8605	0.0840	0.0000	1,907.6235

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Supermarket	2,634.41	4,575.97	4288.66	4,153,819	4,153,819
Total	2,634.41	4,575.97	4,288.66	4,153,819	4,153,819

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	206.2206	206.2206	9.4800e-003	1.9600e-003	207.0277
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	208.0083	208.0083	9.5600e-003	1.9800e-003	208.8224
NaturalGas Mitigated	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.3703	22.3703	4.3000e-004	4.1000e-004	22.5064
NaturalGas Unmitigated	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.3703	22.3703	4.3000e-004	4.1000e-004	22.5064

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Supermarket	419203	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.3703	22.3703	4.3000e-004	4.1000e-004	22.5064
Total		**2.2600e-003**	**0.0206**	**0.0173**	**1.2000e-004**		**1.5600e-003**	**1.5600e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**22.3703**	**22.3703**	**4.3000e-004**	**4.1000e-004**	**22.5064**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Supermarket	419203	2.2600e-003	0.0206	0.0173	1.2000e-004		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	22.3703	22.3703	4.3000e-004	4.1000e-004	22.5064
Total		**2.2600e-003**	**0.0206**	**0.0173**	**1.2000e-004**		**1.5600e-003**	**1.5600e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**22.3703**	**22.3703**	**4.3000e-004**	**4.1000e-004**	**22.5064**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Supermarket	726878	208.0083	9.5600e-003	1.9800e-003	208.8224
Total		**208.0083**	**9.5600e-003**	**1.9800e-003**	**208.8224**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Supermarket	720631	206.2206	9.4800e-003	1.9600e-003	207.0277
Total		**206.2206**	**9.4800e-003**	**1.9600e-003**	**207.0277**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0886	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Unmitigated	0.0886	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-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	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Total	**0.0886**	**0.0000**	**2.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.0000**	**4.9000e-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	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Total	**0.0886**	**0.0000**	**2.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.6000e-004**	**4.6000e-004**	**0.0000**	**0.0000**	**4.9000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.4758	0.0749	1.8400e-003	11.6201
Unmitigated	9.4758	0.0750	1.8400e-003	11.6212

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Supermarket	2.28786 / 0.0707585	9.4758	0.0750	1.8400e-003	11.6212
Total		**9.4758**	**0.0750**	**1.8400e-003**	**11.6212**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Supermarket	2.28786 / 0.0707585	9.4758	0.0749	1.8400e-003	11.6201
Total		**9.4758**	**0.0749**	**1.8400e-003**	**11.6201**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.6518	1.9888	0.0000	75.4160
Unmitigated	33.6518	1.9888	0.0000	75.4160

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Supermarket	165.78	33.6518	1.9888	0.0000	75.4160
Total		**33.6518**	**1.9888**	**0.0000**	**75.4160**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Supermarket	165.78	33.6518	1.9888	0.0000	75.4160
Total		**33.6518**	**1.9888**	**0.0000**	**75.4160**

ALDI Food Market Operation

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Vehicle Trips - Modified per TIA

Area Coating - Modified per SCAQMD Rule 1113

Solid Waste - Revised per Utilities Section

Energy Mitigation - Solar Panels (6,247 kWh per year)

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	104.68	165.78
tblVehicleTrips	ST_TR	177.59	246.55
tblVehicleTrips	SU_TR	166.44	231.07
tblVehicleTrips	WD_TR	102.24	141.94

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Energy	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Mobile	12.8312	23.0622	101.7845	0.2031	12.8218	0.3034	13.1251	3.4286	0.2792	3.7078		17,335.0483	17,335.0483	0.7394		17,350.5759
Total	**13.3290**	**23.1748**	**101.8810**	**0.2038**	**12.8218**	**0.3119**	**13.1337**	**3.4286**	**0.2877**	**3.7163**		**17,470.1701**	**17,470.1701**	**0.7420**	**2.4800e-003**	**17,486.5202**

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	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Energy	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Mobile	12.8312	23.0622	101.7845	0.2031	12.8218	0.3034	13.1251	3.4286	0.2792	3.7078		17,335.0483	17,335.0483	0.7394		17,350.5759
Total	**13.3290**	**23.1748**	**101.8810**	**0.2038**	**12.8218**	**0.3119**	**13.1337**	**3.4286**	**0.2877**	**3.7163**		**17,470.1701**	**17,470.1701**	**0.7420**	**2.4800e-003**	**17,486.5202**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

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	12.8312	23.0622	101.7845	0.2031	12.8218	0.3034	13.1251	3.4286	0.2792	3.7078		17,335.0483	17,335.0483	0.7394		17,350.5759
Unmitigated	12.8312	23.0622	101.7845	0.2031	12.8218	0.3034	13.1251	3.4286	0.2792	3.7078		17,335.0483	17,335.0483	0.7394		17,350.5759

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Supermarket	2,634.41	4,575.97	4288.66	4,153,819	4,153,819
Total	2,634.41	4,575.97	4,288.66	4,153,819	4,153,819

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
NaturalGas Unmitigated	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	1148.5	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Total		**0.0124**	**0.1126**	**0.0946**	**6.8000e-004**		**8.5600e-003**	**8.5600e-003**		**8.5600e-003**	**8.5600e-003**		**135.1177**	**135.1177**	**2.5900e-003**	**2.4800e-003**	**135.9400**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	1.1485	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Total		**0.0124**	**0.1126**	**0.0946**	**6.8000e-004**		**8.5600e-003**	**8.5600e-003**		**8.5600e-003**	**8.5600e-003**		**135.1177**	**135.1177**	**2.5900e-003**	**2.4800e-003**	**135.9400**

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	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Unmitigated	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-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	0.1178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Total	**0.4855**	**2.0000e-005**	**1.9300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**4.0600e-003**	**4.0600e-003**	**1.0000e-005**		**4.3000e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Total	**0.4855**	**2.0000e-005**	**1.9300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**4.0600e-003**	**4.0600e-003**	**1.0000e-005**		**4.3000e-003**

ALDI Food Market Operation

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Supermarket	18.56	1000sqft	1.76	18,557.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Land Use - Total Site = 1.76 acres

Vehicle Trips - Modified per TIA

Area Coating - Modified per SCAQMD Rule 1113

Solid Waste - Revised per Utilities Section

Energy Mitigation - Solar Panels (6,247 kWh per year)

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	18,560.00	18,557.00
tblLandUse	LotAcreage	0.43	1.76
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	104.68	165.78
tblVehicleTrips	ST_TR	177.59	246.55
tblVehicleTrips	SU_TR	166.44	231.07
tblVehicleTrips	WD_TR	102.24	141.94

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Energy	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Mobile	13.7096	24.1323	109.3292	0.1941	12.8218	0.3060	13.1278	3.4286	0.2816	3.7102		16,582.0271	16,582.0271	0.7407		16,597.5821
Total	**14.2074**	**24.2449**	**109.4257**	**0.1948**	**12.8218**	**0.3146**	**13.1364**	**3.4286**	**0.2902**	**3.7188**		**16,717.1489**	**16,717.1489**	**0.7433**	**2.4800e-003**	**16,733.5264**

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	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Energy	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Mobile	13.7096	24.1323	109.3292	0.1941	12.8218	0.3060	13.1278	3.4286	0.2816	3.7102		16,582.0271	16,582.0271	0.7407		16,597.5821
Total	**14.2074**	**24.2449**	**109.4257**	**0.1948**	**12.8218**	**0.3146**	**13.1364**	**3.4286**	**0.2902**	**3.7188**		**16,717.1489**	**16,717.1489**	**0.7433**	**2.4800e-003**	**16,733.5264**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

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	13.7096	24.1323	109.3292	0.1941	12.8218	0.3060	13.1278	3.4286	0.2816	3.7102		16,582.0271	16,582.0271	0.7407		16,597.5821
Unmitigated	13.7096	24.1323	109.3292	0.1941	12.8218	0.3060	13.1278	3.4286	0.2816	3.7102		16,582.0271	16,582.0271	0.7407		16,597.5821

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Supermarket	2,634.41	4,575.97	4288.66	4,153,819	4,153,819
Total	2,634.41	4,575.97	4,288.66	4,153,819	4,153,819

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
NaturalGas Unmitigated	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	1148.5	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Total		**0.0124**	**0.1126**	**0.0946**	**6.8000e-004**		**8.5600e-003**	**8.5600e-003**		**8.5600e-003**	**8.5600e-003**		**135.1177**	**135.1177**	**2.5900e-003**	**2.4800e-003**	**135.9400**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	1.1485	0.0124	0.1126	0.0946	6.8000e-004		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003		135.1177	135.1177	2.5900e-003	2.4800e-003	135.9400
Total		**0.0124**	**0.1126**	**0.0946**	**6.8000e-004**		**8.5600e-003**	**8.5600e-003**		**8.5600e-003**	**8.5600e-003**		**135.1177**	**135.1177**	**2.5900e-003**	**2.4800e-003**	**135.9400**

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	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Unmitigated	0.4854	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-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	0.1178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Total	**0.4855**	**2.0000e-005**	**1.9300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**4.0600e-003**	**4.0600e-003**	**1.0000e-005**		**4.3000e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0600e-003	4.0600e-003	1.0000e-005		4.3000e-003
Total	**0.4855**	**2.0000e-005**	**1.9300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**4.0600e-003**	**4.0600e-003**	**1.0000e-005**		**4.3000e-003**

Onsite Operational Equipment

Total Annual Emissions

CO2	CH_4	N_2O	CO_2E/CO_2
37.60	0.00	0.00	37.75

Pallet Jack

Total Pallet Jacks	Hours of Operation per day (hr)	Hours of Operation per year (hr)
2	24	8760.00

		CO2	CH_4	N_2O	CO_2E/CO_2
Power (kilowatt)*	5				
	Global Warming Potential	**1**	**21**	**310**	**-**
SCE Emission Factors**	*pound/Megawatt hour*	631.00	0.029	0.01	-
	Kilowatt-hr/yr	43,800.00	43,800.00	43,800.00	43,800.00
Annual Emissions	***metric ton/yr***	**12.53**	**0.00**	**0.00**	**12.58**

* http://vestilmfg.com/products/mhequip/pt-EPT.htm, http://forklifts.hyundai.eu/en/products/electric-pallet-trucks-warehouse-equipment
**CalEEMod Data Default Table: http://www.aqmd.gov/docs/default-source/caleemod/caleemod-appendixd.pdf?sfvrsn=2

Straddle Jack

Total Straddle Jacks	Hours of Operation per day (hr)	Hours of Operation per year (hr)
2	24	8760.00

		CO2	CH_4	N_2O	CO_2E/CO_2
Power (kilowatt)*	5				
	Global Warming Potential	**1**	**21**	**310**	**-**
SCE Emission Factors**	*pound/Megawatt hour*	631.00	0.029	0.01	-
	Kilowatt-hr/yr	43,800.00	43,800.00	43,800.00	43,800.00
Annual Emissions	***metric ton/yr***	**12.53**	**0.00**	**0.00**	**12.58**

* http://www.pramac.com/product?id=689&folder=49, http://m.globalindustrial.com/m/p/material-handling/lift-trucks/self-propelled/global-fully-powered-straddle-stacker-li-truck-2500-lb-cap-65-li
**CalEEMod Data Default Table: http://www.aqmd.gov/docs/default-source/caleemod/caleemod-appendixd.pdf?sfvrsn=2

Motorized Carts

Total Carts	Hours of Operation per day (hr)	Hours of Operation per year (hr)
2	24	8760.00

		CO2	CH_4	N_2O	CO_2E/CO_2
Power (kilowatt)*	5				
	Global Warming Potential	**1**	**21**	**310**	**-**
SCE Emission Factors**	*pound/Megawatt hour*	631.00	0.029	0.01	-
	Kilowatt-hr/yr	43,800.00	43,800.00	43,800.00	43,800.00
Annual Emissions	***metric ton/yr***	**12.53**	**0.00**	**0.00**	**12.58**

* http://test.danetechnologies.com/wordpress/products/smartkart/, http://www.canadascooters.com/Shoprider
**CalEEMod Data Default Table: http://www.aqmd.gov/docs/default-source/caleemod/caleemod-appendixd.pdf?sfvrsn=2