



Appendix G. Response to Comment Exhibit – California Air Resource Board

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Health Risk Assessment Modeling

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TITLE: Spring Street Construction

***** STACK PARAMETERS

SOURCE EMISSION RATE:	0.714E-02 g/s	0.567E-01 lb/hr
STACK HEIGHT:	3.00 meters	9.84 feet
STACK INNER DIAMETER:	0.127 meters	5.00 inches
PLUME EXIT TEMPERATURE:	600.0 K	620.3 Deg F
PLUME EXIT VELOCITY:	51.800 m/s	169.95 ft/s
STACK AIR FLOW RATE:	1390 ACFM	
RURAL OR URBAN:	URBAN	
POPULATION:	150000	
INITIAL PROBE DISTANCE =	5000. meters	16404. feet

***** BUILDING DOWNWASH PARAMETERS

NO BUILDING DOWNWASH HAS BEEN REQUESTED FOR THIS ANALYSIS

***** PROBE ANALYSIS *****
25 meter receptor spacing: 1. meters - 5000. meters

Zo SECTOR	ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	2.339	25.0	WIN

* = worst case flow sector

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***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Dry Conditions
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 2.00
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR
10 04 25 25 01

Table with 12 columns: H0, U*, W*, DT/DZ, ZICNV, ZIMCH, M-O LEN, Z0, BOWEN, ALBEDO, REF WS. Row 1: -64.00, 1.206, -9.000, 0.020, -999., 3046., 2609.5, 1.000, 2.00, 0.35, 7.00

Table with 3 columns: HT, REF TA, HT. Row 1: 10.0, 310.0, 2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 2.5 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 3.0 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 0.9 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 3.9 meters

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR
10 02 14 25 12

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      H0      U*      W*  DT/DZ  ZICNV  ZIMCH  M-0  LEN      Z0  BOWEN  ALBEDO  REF  WS
-----
316.49  0.195  1.800  0.020  634.  198.   -2.0  1.000   2.00  0.14   0.50

      HT  REF  TA      HT
-----
      10.0  280.0  2.0
  
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WIND SPEED AT STACK HEIGHT (non-downwash):      0.2 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT:      3.0 meters
ESTIMATED FINAL PLUME RISE (non-downwash):     121.5 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash):   124.5 meters
  
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***** AERSCREEN AUTOMATED DISTANCES
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OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
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DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.3146E-01	2525.00	0.6572E-01
25.00	2.339	2550.00	0.6491E-01
50.00	1.397	2575.00	0.6413E-01
75.00	1.055	2600.00	0.6336E-01
100.00	0.8123	2625.00	0.6261E-01
125.00	0.6693	2650.00	0.6187E-01
150.00	0.5524	2675.00	0.6115E-01
175.00	0.4833	2700.00	0.6044E-01
200.00	0.4486	2725.00	0.5975E-01
225.00	0.4132	2750.00	0.5906E-01
250.00	0.3796	2775.00	0.5840E-01
275.00	0.3791	2800.00	0.5774E-01
300.00	0.3860	2825.00	0.5710E-01
325.00	0.3817	2850.00	0.5646E-01
350.00	0.3750	2875.00	0.5585E-01
375.00	0.3667	2900.00	0.5524E-01
400.00	0.3586	2925.00	0.5464E-01
425.00	0.3500	2950.00	0.5405E-01
450.00	0.3410	2975.00	0.5348E-01
475.00	0.3317	3000.00	0.5291E-01
500.00	0.3224	3025.00	0.5236E-01
525.00	0.3130	3050.00	0.5181E-01

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550.00	0.3039	3075.00	0.5128E-01
575.00	0.2949	3100.00	0.5075E-01
600.00	0.2867	3125.00	0.5023E-01
625.00	0.2790	3150.00	0.4972E-01
650.00	0.2713	3175.00	0.4923E-01
675.00	0.2639	3200.00	0.4873E-01
700.00	0.2567	3225.00	0.4825E-01
725.00	0.2497	3250.00	0.4778E-01
750.00	0.2430	3275.00	0.4731E-01
775.00	0.2365	3300.00	0.4685E-01
800.00	0.2302	3325.00	0.4640E-01
825.00	0.2241	3350.00	0.4595E-01
850.00	0.2183	3375.00	0.4552E-01
875.00	0.2126	3400.00	0.4509E-01
900.00	0.2072	3425.00	0.4466E-01
925.00	0.2020	3450.00	0.4425E-01
950.00	0.1970	3475.00	0.4384E-01
975.00	0.1921	3500.00	0.4343E-01
1000.00	0.1875	3525.00	0.4303E-01
1025.00	0.1830	3550.00	0.4264E-01
1050.00	0.1787	3575.00	0.4226E-01
1075.00	0.1745	3600.00	0.4188E-01
1100.00	0.1705	3625.00	0.4150E-01
1125.00	0.1666	3650.00	0.4114E-01
1150.00	0.1629	3675.00	0.4077E-01
1175.00	0.1593	3700.00	0.4042E-01
1200.00	0.1558	3725.00	0.4006E-01
1225.00	0.1524	3750.00	0.3972E-01
1250.00	0.1492	3775.00	0.3938E-01
1275.00	0.1461	3800.00	0.3904E-01
1300.00	0.1430	3825.00	0.3871E-01
1325.00	0.1401	3850.00	0.3838E-01
1350.00	0.1373	3875.00	0.3806E-01
1375.00	0.1346	3900.00	0.3774E-01
1400.00	0.1319	3925.00	0.3743E-01
1425.00	0.1293	3950.00	0.3712E-01
1450.00	0.1269	3975.00	0.3681E-01
1475.00	0.1245	4000.00	0.3651E-01
1500.00	0.1221	4025.00	0.3622E-01
1525.00	0.1199	4050.00	0.3592E-01
1550.00	0.1177	4075.00	0.3564E-01
1575.00	0.1156	4100.00	0.3535E-01
1600.00	0.1135	4125.00	0.3507E-01
1625.00	0.1115	4150.00	0.3479E-01
1650.00	0.1096	4175.00	0.3452E-01
1675.00	0.1077	4200.00	0.3425E-01
1700.00	0.1058	4225.00	0.3399E-01
1725.00	0.1041	4250.00	0.3372E-01
1750.00	0.1023	4275.00	0.3347E-01
1775.00	0.1006	4300.00	0.3321E-01
1800.00	0.9901E-01	4325.00	0.3296E-01

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1825.00	0.9741E-01	4350.00	0.3271E-01
1850.00	0.9586E-01	4375.00	0.3246E-01
1875.00	0.9435E-01	4400.00	0.3222E-01
1900.00	0.9288E-01	4425.00	0.3198E-01
1925.00	0.9145E-01	4450.00	0.3174E-01
1950.00	0.9005E-01	4475.00	0.3151E-01
1975.00	0.8869E-01	4500.00	0.3128E-01
2000.00	0.8737E-01	4525.00	0.3105E-01
2025.00	0.8607E-01	4550.00	0.3083E-01
2050.00	0.8481E-01	4575.00	0.3060E-01
2075.00	0.8358E-01	4600.00	0.3039E-01
2100.00	0.8238E-01	4625.00	0.3017E-01
2125.00	0.8121E-01	4650.00	0.2995E-01
2150.00	0.8007E-01	4675.00	0.2974E-01
2175.00	0.7895E-01	4700.00	0.2953E-01
2200.00	0.7786E-01	4725.00	0.2933E-01
2225.00	0.7680E-01	4750.00	0.2912E-01
2250.00	0.7576E-01	4775.00	0.2892E-01
2275.00	0.7474E-01	4800.00	0.2872E-01
2300.00	0.7374E-01	4825.00	0.2852E-01
2325.00	0.7277E-01	4850.00	0.2833E-01
2350.00	0.7182E-01	4875.00	0.2814E-01
2375.00	0.7089E-01	4900.00	0.2795E-01
2400.00	0.6998E-01	4925.00	0.2776E-01
2425.00	0.6909E-01	4950.00	0.2757E-01
2450.00	0.6822E-01	4975.00	0.2739E-01
2475.00	0.6737E-01	5000.00	0.2721E-01
2500.00	0.6653E-01		

 ***** AERSCREEN MAXIMUM IMPACT SUMMARY

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	8.070	8.070	7.263	4.842	0.8070

DISTANCE FROM SOURCE 7.00 meters

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IMPACT AT THE
AMBIENT BOUNDARY 0.3146E-01 0.3146E-01 0.2832E-01 0.1888E-01
0.3146E-02

DISTANCE FROM SOURCE 1.00 meters

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AERSCREEN 16216 / AERMOD 19191

02/27/20
15:20:57

TITLE: Spring Street Operation

***** STACK PARAMETERS

SOURCE EMISSION RATE: 0.119E-04 g/s 0.948E-04 lb/hr
STACK HEIGHT: 3.00 meters 9.84 feet
STACK INNER DIAMETER: 0.127 meters 5.00 inches
PLUME EXIT TEMPERATURE: 600.0 K 620.3 Deg F
PLUME EXIT VELOCITY: 51.800 m/s 169.95 ft/s
STACK AIR FLOW RATE: 1390 ACFM
RURAL OR URBAN: URBAN
POPULATION: 150000

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

***** BUILDING DOWNWASH PARAMETERS

NO BUILDING DOWNWASH HAS BEEN REQUESTED FOR THIS ANALYSIS

***** PROBE ANALYSIS *****
25 meter receptor spacing: 1. meters - 5000. meters

Zo SECTOR	ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.3911E-02	25.0	WIN

* = worst case flow sector

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***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Dry Conditions
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 2.00
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR
10 04 25 25 01

Table with 12 columns: H0, U*, W*, DT/DZ, ZICNV, ZIMCH, M-O LEN, Z0, BOWEN, ALBEDO, REF WS. Row 1: -64.00, 1.206, -9.000, 0.020, -999., 3046., 2609.5, 1.000, 2.00, 0.35, 7.00

Table with 3 columns: HT, REF TA, HT. Row 1: 10.0, 310.0, 2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 2.5 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 3.0 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 0.9 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 3.9 meters

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR
10 02 14 25 12

Springop

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      H0      U*      W*  DT/DZ  ZICNV  ZIMCH  M-O  LEN      Z0  BOWEN  ALBEDO  REF  WS
-----
316.49  0.195  1.800  0.020  634.  198.   -2.0  1.000   2.00  0.14   0.50

      HT  REF  TA      HT
-----
      10.0  280.0  2.0
  
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WIND SPEED AT STACK HEIGHT (non-downwash):      0.2 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT:      3.0 meters
ESTIMATED FINAL PLUME RISE (non-downwash):     121.5 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash):   124.5 meters
  
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 ***** AERSCREEN AUTOMATED DISTANCES

 OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.5261E-04	2525.00	0.1099E-03
25.00	0.3911E-02	2550.00	0.1086E-03
50.00	0.2335E-02	2575.00	0.1072E-03
75.00	0.1765E-02	2600.00	0.1060E-03
100.00	0.1358E-02	2625.00	0.1047E-03
125.00	0.1119E-02	2650.00	0.1035E-03
150.00	0.9237E-03	2675.00	0.1023E-03
175.00	0.8081E-03	2700.00	0.1011E-03
200.00	0.7501E-03	2725.00	0.9991E-04
225.00	0.6909E-03	2750.00	0.9877E-04
250.00	0.6347E-03	2775.00	0.9765E-04
275.00	0.6339E-03	2800.00	0.9656E-04
300.00	0.6455E-03	2825.00	0.9548E-04
325.00	0.6384E-03	2850.00	0.9442E-04
350.00	0.6272E-03	2875.00	0.9339E-04
375.00	0.6132E-03	2900.00	0.9237E-04
400.00	0.5997E-03	2925.00	0.9137E-04
425.00	0.5853E-03	2950.00	0.9039E-04
450.00	0.5702E-03	2975.00	0.8943E-04
475.00	0.5547E-03	3000.00	0.8849E-04
500.00	0.5391E-03	3025.00	0.8756E-04
525.00	0.5235E-03	3050.00	0.8664E-04

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550.00	0.5081E-03	3075.00	0.8575E-04
575.00	0.4931E-03	3100.00	0.8487E-04
600.00	0.4795E-03	3125.00	0.8400E-04
625.00	0.4665E-03	3150.00	0.8315E-04
650.00	0.4538E-03	3175.00	0.8232E-04
675.00	0.4414E-03	3200.00	0.8150E-04
700.00	0.4293E-03	3225.00	0.8069E-04
725.00	0.4176E-03	3250.00	0.7989E-04
750.00	0.4064E-03	3275.00	0.7911E-04
775.00	0.3954E-03	3300.00	0.7835E-04
800.00	0.3849E-03	3325.00	0.7759E-04
825.00	0.3748E-03	3350.00	0.7685E-04
850.00	0.3650E-03	3375.00	0.7611E-04
875.00	0.3556E-03	3400.00	0.7540E-04
900.00	0.3465E-03	3425.00	0.7469E-04
925.00	0.3378E-03	3450.00	0.7399E-04
950.00	0.3294E-03	3475.00	0.7330E-04
975.00	0.3213E-03	3500.00	0.7263E-04
1000.00	0.3135E-03	3525.00	0.7196E-04
1025.00	0.3060E-03	3550.00	0.7131E-04
1050.00	0.2988E-03	3575.00	0.7067E-04
1075.00	0.2918E-03	3600.00	0.7003E-04
1100.00	0.2851E-03	3625.00	0.6941E-04
1125.00	0.2786E-03	3650.00	0.6879E-04
1150.00	0.2723E-03	3675.00	0.6818E-04
1175.00	0.2663E-03	3700.00	0.6759E-04
1200.00	0.2605E-03	3725.00	0.6700E-04
1225.00	0.2549E-03	3750.00	0.6642E-04
1250.00	0.2495E-03	3775.00	0.6585E-04
1275.00	0.2443E-03	3800.00	0.6528E-04
1300.00	0.2392E-03	3825.00	0.6473E-04
1325.00	0.2343E-03	3850.00	0.6418E-04
1350.00	0.2296E-03	3875.00	0.6364E-04
1375.00	0.2250E-03	3900.00	0.6311E-04
1400.00	0.2206E-03	3925.00	0.6259E-04
1425.00	0.2163E-03	3950.00	0.6207E-04
1450.00	0.2121E-03	3975.00	0.6156E-04
1475.00	0.2081E-03	4000.00	0.6106E-04
1500.00	0.2042E-03	4025.00	0.6056E-04
1525.00	0.2005E-03	4050.00	0.6008E-04
1550.00	0.1968E-03	4075.00	0.5959E-04
1575.00	0.1932E-03	4100.00	0.5912E-04
1600.00	0.1898E-03	4125.00	0.5865E-04
1625.00	0.1865E-03	4150.00	0.5819E-04
1650.00	0.1832E-03	4175.00	0.5773E-04
1675.00	0.1801E-03	4200.00	0.5728E-04
1700.00	0.1770E-03	4225.00	0.5683E-04
1725.00	0.1740E-03	4250.00	0.5640E-04
1750.00	0.1711E-03	4275.00	0.5596E-04
1775.00	0.1683E-03	4300.00	0.5554E-04
1800.00	0.1656E-03	4325.00	0.5511E-04

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1825.00	0.1629E-03	4350.00	0.5470E-04
1850.00	0.1603E-03	4375.00	0.5429E-04
1875.00	0.1578E-03	4400.00	0.5388E-04
1900.00	0.1553E-03	4425.00	0.5348E-04
1925.00	0.1529E-03	4450.00	0.5308E-04
1950.00	0.1506E-03	4475.00	0.5269E-04
1975.00	0.1483E-03	4500.00	0.5231E-04
2000.00	0.1461E-03	4525.00	0.5193E-04
2025.00	0.1439E-03	4550.00	0.5155E-04
2050.00	0.1418E-03	4575.00	0.5118E-04
2075.00	0.1398E-03	4600.00	0.5081E-04
2100.00	0.1378E-03	4625.00	0.5045E-04
2125.00	0.1358E-03	4650.00	0.5009E-04
2150.00	0.1339E-03	4675.00	0.4974E-04
2175.00	0.1320E-03	4700.00	0.4939E-04
2200.00	0.1302E-03	4725.00	0.4904E-04
2225.00	0.1284E-03	4750.00	0.4870E-04
2250.00	0.1267E-03	4775.00	0.4836E-04
2275.00	0.1250E-03	4800.00	0.4803E-04
2300.00	0.1233E-03	4825.00	0.4770E-04
2325.00	0.1217E-03	4850.00	0.4738E-04
2350.00	0.1201E-03	4875.00	0.4705E-04
2375.00	0.1185E-03	4900.00	0.4674E-04
2400.00	0.1170E-03	4925.00	0.4642E-04
2425.00	0.1155E-03	4950.00	0.4611E-04
2450.00	0.1141E-03	4975.00	0.4580E-04
2475.00	0.1127E-03	5000.00	0.4550E-04
2500.00	0.1113E-03		

 ***** AERSCREEN MAXIMUM IMPACT SUMMARY

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
----- FLAT TERRAIN 0.1350E-02	0.1350E-01	0.1350E-01	0.1215E-01	0.8097E-02	

DISTANCE FROM SOURCE 7.00 meters

Springop

IMPACT AT THE
AMBIENT BOUNDARY 0.5261E-04 0.5261E-04 0.4735E-04 0.3157E-04
0.5261E-05

DISTANCE FROM SOURCE 1.00 meters

CalEEMod Runs

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Spring Street - South Coast AQMD Air District, Annual

Spring Street
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	160.67	1000sqft	3.69	160,673.00	0
Parking Lot	4.11	Acre	4.11	179,031.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Spring Street - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use -

Construction Phase - Architectural Coating will overlap with the construction of the buildings.

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment -

Grading - project site is 7.8 acres

Vehicle Trips - Trip rates from traffic report

Construction Off-road Equipment Mitigation -

Fleet Mix - Fleet mix of trucks adjusted to 20% (default is 7.6%)

Trips and VMT - Input from developer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	PhaseEndDate	11/13/2020	1/15/2021
tblConstructionPhase	PhaseEndDate	12/11/2020	2/12/2021
tblConstructionPhase	PhaseEndDate	10/29/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	12/24/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	1/28/2022
tblConstructionPhase	PhaseStartDate	11/2/2020	1/4/2021
tblConstructionPhase	PhaseStartDate	11/14/2020	1/18/2021
tblConstructionPhase	PhaseStartDate	12/12/2020	2/15/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	9/6/2021
tblConstructionPhase	PhaseStartDate	10/30/2021	1/3/2022
tblFleetMix	HHD	0.03	0.09
tblFleetMix	LDA	0.55	0.48

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tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.20	0.18
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.8460e-003	0.02
tblFleetMix	MCY	4.8550e-003	0.00
tblFleetMix	MDV	0.12	0.11
tblFleetMix	MH	8.9600e-004	0.00
tblFleetMix	MHD	0.02	0.05
tblFleetMix	OBUS	2.0990e-003	0.00
tblFleetMix	SBUS	7.0900e-004	0.00
tblFleetMix	UBUS	1.8280e-003	0.00
tblGrading	AcresOfGrading	30.00	7.80
tblGrading	MaterialImported	0.00	7,500.00
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	1.49	1.53
tblVehicleTrips	SU_TR	0.62	0.64
tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-2-2020	2-1-2021	0.4182	0.4182
2	2-2-2021	5-1-2021	0.9940	0.9940
3	5-2-2021	8-1-2021	0.9998	0.9998
4	8-2-2021	11-1-2021	1.4448	1.4448
5	11-2-2021	2-1-2022	1.2410	1.2410
		Highest	1.4448	1.4448

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	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003
Energy	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	743.4086	743.4086	0.0273	7.8700e-003	746.4352
Mobile	0.1545	2.0313	2.2940	0.0127	0.8574	9.9000e-003	0.8673	0.2314	9.3100e-003	0.2407	0.0000	1,184.3135	1,184.3135	0.0443	0.0000	1,185.4214
Waste						0.0000	0.0000		0.0000	0.0000	40.4419	0.0000	40.4419	2.3901	0.0000	100.1931
Water						0.0000	0.0000		0.0000	0.0000	11.7876	154.1473	165.9348	1.2171	0.0299	205.2726
Total	0.8395	2.1739	2.4158	0.0135	0.8574	0.0207	0.8781	0.2314	0.0202	0.2515	52.2294	2,081.8735	2,134.1030	3.6787	0.0378	2,237.3266

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003
Energy	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	743.4086	743.4086	0.0273	7.8700e-003	746.4352
Mobile	0.1545	2.0313	2.2940	0.0127	0.8574	9.9000e-003	0.8673	0.2314	9.3100e-003	0.2407	0.0000	1,184.3135	1,184.3135	0.0443	0.0000	1,185.4214
Waste						0.0000	0.0000		0.0000	0.0000	40.4419	0.0000	40.4419	2.3901	0.0000	100.1931
Water						0.0000	0.0000		0.0000	0.0000	11.7876	154.1473	165.9348	1.2171	0.0299	205.2726
Total	0.8395	2.1739	2.4158	0.0135	0.8574	0.0207	0.8781	0.2314	0.0202	0.2515	52.2294	2,081.8735	2,134.1030	3.6787	0.0378	2,237.3266

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/18/2021	2/12/2021	5	20	
3	Building Construction	Building Construction	2/15/2021	12/31/2021	5	230	
4	Architectural Coating	Architectural Coating	9/6/2021	12/31/2021	5	85	
5	Paving	Paving	1/3/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.8

Acres of Paving: 4.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 241,010; Non-Residential Outdoor: 80,337; Striped Parking Area: 10,742 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	143.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	29.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0903	0.0102	0.1006	0.0497	9.4000e-003	0.0591	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607
Total	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0407	0.0102	0.0509	0.0223	9.4000e-003	0.0317	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607
Total	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0648	0.0000	0.0648	0.0336	0.0000	0.0336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2760	0.1281	3.0000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	26.6435	26.6435	8.6200e-003	0.0000	26.8590
Total	0.0243	0.2760	0.1281	3.0000e-004	0.0648	0.0114	0.0762	0.0336	0.0105	0.0441	0.0000	26.6435	26.6435	8.6200e-003	0.0000	26.8590

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4400e-003	0.1222	0.0259	3.6000e-004	8.0600e-003	3.7000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5700e-003	0.0000	35.0202	35.0202	2.4000e-003	0.0000	35.0801
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	3.3000e-004	2.5000e-004	2.7900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7645	0.7645	2.0000e-005	0.0000	0.7650
Total	3.7700e-003	0.1225	0.0287	3.7000e-004	8.9400e-003	3.8000e-004	9.3100e-003	2.4400e-003	3.6000e-004	2.8100e-003	0.0000	35.7847	35.7847	2.4200e-003	0.0000	35.8452

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					0.0292	0.0000	0.0292	0.0151	0.0000	0.0151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2760	0.1281	3.0000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	26.6435	26.6435	8.6200e-003	0.0000	26.8589
Total	0.0243	0.2760	0.1281	3.0000e-004	0.0292	0.0114	0.0405	0.0151	0.0105	0.0256	0.0000	26.6435	26.6435	8.6200e-003	0.0000	26.8589

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4400e-003	0.1222	0.0259	3.6000e-004	8.0600e-003	3.7000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5700e-003	0.0000	35.0202	35.0202	2.4000e-003	0.0000	35.0801
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	3.3000e-004	2.5000e-004	2.7900e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7645	0.7645	2.0000e-005	0.0000	0.7650
Total	3.7700e-003	0.1225	0.0287	3.7000e-004	8.9400e-003	3.8000e-004	9.3100e-003	2.4400e-003	3.6000e-004	2.8100e-003	0.0000	35.7847	35.7847	2.4200e-003	0.0000	35.8452

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2602	2.4927	2.1057	3.6800e-003		0.1301	0.1301		0.1219	0.1219	0.0000	317.3876	317.3876	0.0808	0.0000	319.4067
Total	0.2602	2.4927	2.1057	3.6800e-003		0.1301	0.1301		0.1219	0.1219	0.0000	317.3876	317.3876	0.0808	0.0000	319.4067

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0183	0.6231	0.1545	1.6200e-003	0.0406	1.2500e-003	0.0419	0.0117	1.2000e-003	0.0129	0.0000	157.2304	157.2304	9.9400e-003	0.0000	157.4789
Worker	0.0686	0.0507	0.5731	1.7400e-003	0.1804	1.3500e-003	0.1818	0.0479	1.2500e-003	0.0492	0.0000	157.1583	157.1583	4.2100e-003	0.0000	157.2637
Total	0.0869	0.6738	0.7276	3.3600e-003	0.2210	2.6000e-003	0.2236	0.0596	2.4500e-003	0.0621	0.0000	314.3886	314.3886	0.0142	0.0000	314.7426

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	0.2602	2.4927	2.1057	3.6800e-003		0.1301	0.1301		0.1219	0.1219	0.0000	317.3872	317.3872	0.0808	0.0000	319.4063
Total	0.2602	2.4927	2.1057	3.6800e-003		0.1301	0.1301		0.1219	0.1219	0.0000	317.3872	317.3872	0.0808	0.0000	319.4063

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0183	0.6231	0.1545	1.6200e-003	0.0406	1.2500e-003	0.0419	0.0117	1.2000e-003	0.0129	0.0000	157.2304	157.2304	9.9400e-003	0.0000	157.4789
Worker	0.0686	0.0507	0.5731	1.7400e-003	0.1804	1.3500e-003	0.1818	0.0479	1.2500e-003	0.0492	0.0000	157.1583	157.1583	4.2100e-003	0.0000	157.2637
Total	0.0869	0.6738	0.7276	3.3600e-003	0.2210	2.6000e-003	0.2236	0.0596	2.4500e-003	0.0621	0.0000	314.3886	314.3886	0.0142	0.0000	314.7426

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1298	0.1545	2.5000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	21.7027	21.7027	1.4900e-003	0.0000	21.7399
Total	0.7882	0.1298	0.1545	2.5000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	21.7027	21.7027	1.4900e-003	0.0000	21.7399

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3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1400e-003	3.8000e-003	0.0430	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5900e-003	9.0000e-005	3.6800e-003	0.0000	11.7785	11.7785	3.2000e-004	0.0000	11.7864
Total	5.1400e-003	3.8000e-003	0.0430	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5900e-003	9.0000e-005	3.6800e-003	0.0000	11.7785	11.7785	3.2000e-004	0.0000	11.7864

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	0.7696					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1298	0.1545	2.5000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	21.7026	21.7026	1.4900e-003	0.0000	21.7399
Total	0.7882	0.1298	0.1545	2.5000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	21.7026	21.7026	1.4900e-003	0.0000	21.7399

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3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1400e-003	3.8000e-003	0.0430	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5900e-003	9.0000e-005	3.6800e-003	0.0000	11.7785	11.7785	3.2000e-004	0.0000	11.7864
Total	5.1400e-003	3.8000e-003	0.0430	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5900e-003	9.0000e-005	3.6800e-003	0.0000	11.7785	11.7785	3.2000e-004	0.0000	11.7864

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	5.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830
Total	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830

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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	5.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830
Total	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1545	2.0313	2.2940	0.0127	0.8574	9.9000e-003	0.8673	0.2314	9.3100e-003	0.2407	0.0000	1,184.3135	1,184.3135	0.0443	0.0000	1,185.4214
Unmitigated	0.1545	2.0313	2.2940	0.0127	0.8574	9.9000e-003	0.8673	0.2314	9.3100e-003	0.2407	0.0000	1,184.3135	1,184.3135	0.0443	0.0000	1,185.4214

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	631.44	245.83	102.83	2,217,862	2,217,862
Parking Lot	0.00	0.00	0.00		
Total	631.44	245.83	102.83	2,217,862	2,217,862

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.480870	0.037879	0.175844	0.105406	0.042175	0.015298	0.054994	0.087533	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	588.2170	588.2170	0.0243	5.0200e-003	590.3214
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	588.2170	588.2170	0.0243	5.0200e-003	590.3214
NaturalGas Mitigated	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139
NaturalGas Unmitigated	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139

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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					
Manufacturing	2.90818e+006	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139

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					
Manufacturing	2.90818e+006	0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0157	0.1426	0.1198	8.6000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	155.1916	155.1916	2.9700e-003	2.8500e-003	156.1139

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.78347e+006	568.2519	0.0235	4.8500e-003	570.2848
Parking Lot	62661.1	19.9652	8.2000e-004	1.7000e-004	20.0366
Total		588.2170	0.0243	5.0200e-003	590.3214

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	1.78347e+006	568.2519	0.0235	4.8500e-003	570.2848
Parking Lot	62661.1	19.9652	8.2000e-004	1.7000e-004	20.0366
Total		588.2170	0.0243	5.0200e-003	590.3214

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003
Unmitigated	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003
Total	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003
Total	0.6693	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Spring Street - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	165.9348	1.2171	0.0299	205.2726
Unmitigated	165.9348	1.2171	0.0299	205.2726

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	37.1549 / 0	165.9348	1.2171	0.0299	205.2726
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		165.9348	1.2171	0.0299	205.2726

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	37.1549 / 0	165.9348	1.2171	0.0299	205.2726
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		165.9348	1.2171	0.0299	205.2726

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.4419	2.3901	0.0000	100.1931
Unmitigated	40.4419	2.3901	0.0000	100.1931

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	199.23	40.4419	2.3901	0.0000	100.1931
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		40.4419	2.3901	0.0000	100.1931

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	199.23	40.4419	2.3901	0.0000	100.1931
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		40.4419	2.3901	0.0000	100.1931

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Spring Street - South Coast AQMD Air District, Summer

Spring Street
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	160.67	1000sqft	3.69	160,673.00	0
Parking Lot	4.11	Acre	4.11	179,031.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Spring Street - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use -

Construction Phase - Architectural Coating will overlap with the construction of the buildings.

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment -

Grading - project site is 7.8 acres

Vehicle Trips - Trip rates from traffic report

Construction Off-road Equipment Mitigation -

Fleet Mix - Fleet mix of trucks adjusted to 20% (default is 7.6%)

Trips and VMT - Input from developer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	PhaseEndDate	11/13/2020	1/15/2021
tblConstructionPhase	PhaseEndDate	12/11/2020	2/12/2021
tblConstructionPhase	PhaseEndDate	10/29/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	12/24/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	1/28/2022
tblConstructionPhase	PhaseStartDate	11/2/2020	1/4/2021
tblConstructionPhase	PhaseStartDate	11/14/2020	1/18/2021
tblConstructionPhase	PhaseStartDate	12/12/2020	2/15/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	9/6/2021
tblConstructionPhase	PhaseStartDate	10/30/2021	1/3/2022
tblFleetMix	HHD	0.03	0.09
tblFleetMix	LDA	0.55	0.48

Spring Street - South Coast AQMD Air District, Summer

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.20	0.18
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.8460e-003	0.02
tblFleetMix	MCY	4.8550e-003	0.00
tblFleetMix	MDV	0.12	0.11
tblFleetMix	MH	8.9600e-004	0.00
tblFleetMix	MHD	0.02	0.05
tblFleetMix	OBUS	2.0990e-003	0.00
tblFleetMix	SBUS	7.0900e-004	0.00
tblFleetMix	UBUS	1.8280e-003	0.00
tblGrading	AcresOfGrading	30.00	7.80
tblGrading	MaterialImported	0.00	7,500.00
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	1.49	1.53
tblVehicleTrips	SU_TR	0.62	0.64
tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

Spring Street - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Energy	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Mobile	1.1320	13.6497	16.7912	0.0905	6.0470	0.0684	6.1154	1.6292	0.0644	1.6935		9,318.6118	9,318.6118	0.3387		9,327.0783
Total	4.8860	14.4310	17.4642	0.0951	6.0470	0.1279	6.1748	1.6292	0.1238	1.7530		10,256.0149	10,256.0149	0.3567	0.0172	10,270.0541

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Energy	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Mobile	1.1320	13.6497	16.7912	0.0905	6.0470	0.0684	6.1154	1.6292	0.0644	1.6935		9,318.6118	9,318.6118	0.3387		9,327.0783
Total	4.8860	14.4310	17.4642	0.0951	6.0470	0.1279	6.1748	1.6292	0.1238	1.7530		10,256.0149	10,256.0149	0.3567	0.0172	10,270.0541

Spring Street - South Coast AQMD Air District, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/18/2021	2/12/2021	5	20	
3	Building Construction	Building Construction	2/15/2021	12/31/2021	5	230	
4	Architectural Coating	Architectural Coating	9/6/2021	12/31/2021	5	85	
5	Paving	Paving	1/3/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.8

Acres of Paving: 4.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 241,010; Non-Residential Outdoor: 80,337; Striped Parking Area: 10,742 (Architectural Coating – sqft)

OffRoad Equipment

Spring Street - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	143.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	29.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Spring Street - South Coast AQMD Air District, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Spring Street - South Coast AQMD Air District, Summer

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	8.1298	2.0445	10.1743	4.4688	1.8809	6.3497	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Spring Street - South Coast AQMD Air District, Summer

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4781	0.0000	6.4781	3.3613	0.0000	3.3613			0.0000			0.0000
Off-Road	2.4288	27.5986	12.8097	0.0303		1.1365	1.1365		1.0456	1.0456		2,936.9478	2,936.9478	0.9499		2,960.6945
Total	2.4288	27.5986	12.8097	0.0303	6.4781	1.1365	7.6146	3.3613	1.0456	4.4069		2,936.9478	2,936.9478	0.9499		2,960.6945

Spring Street - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3403	11.8652	2.5116	0.0359	0.8195	0.0368	0.8563	0.2246	0.0352	0.2598		3,890.5406	3,890.5406	0.2596		3,897.0294
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	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518
Total	0.3741	11.8871	2.8130	0.0368	0.9090	0.0374	0.9464	0.2483	0.0358	0.2841		3,979.1328	3,979.1328	0.2619		3,985.6813

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9151	0.0000	2.9151	1.5126	0.0000	1.5126			0.0000			0.0000
Off-Road	2.4288	27.5986	12.8097	0.0303		1.1365	1.1365		1.0456	1.0456	0.0000	2,936.9478	2,936.9478	0.9499		2,960.6945
Total	2.4288	27.5986	12.8097	0.0303	2.9151	1.1365	4.0517	1.5126	1.0456	2.5582	0.0000	2,936.9478	2,936.9478	0.9499		2,960.6945

Spring Street - South Coast AQMD Air District, Summer

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3403	11.8652	2.5116	0.0359	0.8195	0.0368	0.8563	0.2246	0.0352	0.2598		3,890.5406	3,890.5406	0.2596		3,897.0294
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	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518
Total	0.3741	11.8871	2.8130	0.0368	0.9090	0.0374	0.9464	0.2483	0.0358	0.2841		3,979.1328	3,979.1328	0.2619		3,985.6813

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598		3,042.2603	3,042.2603	0.7741		3,061.6137
Total	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598		3,042.2603	3,042.2603	0.7741		3,061.6137

Spring Street - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1558	5.3410	1.2674	0.0143	0.3584	0.0108	0.3692	0.1032	0.0103	0.1135		1,525.6554	1,525.6554	0.0923		1,527.9626
Worker	0.6036	0.3915	5.3872	0.0159	1.5984	0.0118	1.6102	0.4239	0.0108	0.4347		1,583.5867	1,583.5867	0.0426		1,584.6514
Total	0.7595	5.7325	6.6546	0.0302	1.9568	0.0225	1.9793	0.5271	0.0211	0.5482		3,109.2422	3,109.2422	0.1349		3,112.6140

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	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598	0.0000	3,042.2603	3,042.2603	0.7741		3,061.6137
Total	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598	0.0000	3,042.2603	3,042.2603	0.7741		3,061.6137

Spring Street - South Coast AQMD Air District, Summer

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1558	5.3410	1.2674	0.0143	0.3584	0.0108	0.3692	0.1032	0.0103	0.1135		1,525.6554	1,525.6554	0.0923		1,527.9626
Worker	0.6036	0.3915	5.3872	0.0159	1.5984	0.0118	1.6102	0.4239	0.0108	0.4347		1,583.5867	1,583.5867	0.0426		1,584.6514
Total	0.7595	5.7325	6.6546	0.0302	1.9568	0.0225	1.9793	0.5271	0.0211	0.5482		3,109.2422	3,109.2422	0.1349		3,112.6140

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.1086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
Total	18.5464	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618

Spring Street - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1224	0.0794	1.0925	3.2200e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		321.1470	321.1470	8.6400e-003		321.3629
Total	0.1224	0.0794	1.0925	3.2200e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		321.1470	321.1470	8.6400e-003		321.3629

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	18.1086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
Total	18.5464	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618

Spring Street - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1224	0.0794	1.0925	3.2200e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		321.1470	321.1470	8.6400e-003		321.3629
Total	0.1224	0.0794	1.0925	3.2200e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		321.1470	321.1470	8.6400e-003		321.3629

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6412	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Spring Street - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6412	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Spring Street - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Spring Street - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1320	13.6497	16.7912	0.0905	6.0470	0.0684	6.1154	1.6292	0.0644	1.6935		9,318.6118	9,318.6118	0.3387		9,327.0783
Unmitigated	1.1320	13.6497	16.7912	0.0905	6.0470	0.0684	6.1154	1.6292	0.0644	1.6935		9,318.6118	9,318.6118	0.3387		9,327.0783

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	631.44	245.83	102.83	2,217,862	2,217,862
Parking Lot	0.00	0.00	0.00		
Total	631.44	245.83	102.83	2,217,862	2,217,862

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.480870	0.037879	0.175844	0.105406	0.042175	0.015298	0.054994	0.087533	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

Spring Street - South Coast AQMD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
NaturalGas Unmitigated	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

Spring Street - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	7967.62	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

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					
Manufacturing	7.96762	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

6.0 Area Detail

6.1 Mitigation Measures Area

Spring Street - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Unmitigated	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

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	0.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5700e-003	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Total	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

Spring Street - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5700e-003	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Total	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Spring Street - South Coast AQMD Air District, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Spring Street - South Coast AQMD Air District, Winter

Spring Street
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	160.67	1000sqft	3.69	160,673.00	0
Parking Lot	4.11	Acre	4.11	179,031.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Spring Street - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use -

Construction Phase - Architectural Coating will overlap with the construction of the buildings.

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment - Input from developer

Off-road Equipment -

Grading - project site is 7.8 acres

Vehicle Trips - Trip rates from traffic report

Construction Off-road Equipment Mitigation -

Fleet Mix - Fleet mix of trucks adjusted to 20% (default is 7.6%)

Trips and VMT - Input from developer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	PhaseEndDate	11/13/2020	1/15/2021
tblConstructionPhase	PhaseEndDate	12/11/2020	2/12/2021
tblConstructionPhase	PhaseEndDate	10/29/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	12/24/2021	12/31/2021
tblConstructionPhase	PhaseEndDate	11/26/2021	1/28/2022
tblConstructionPhase	PhaseStartDate	11/2/2020	1/4/2021
tblConstructionPhase	PhaseStartDate	11/14/2020	1/18/2021
tblConstructionPhase	PhaseStartDate	12/12/2020	2/15/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	9/6/2021
tblConstructionPhase	PhaseStartDate	10/30/2021	1/3/2022
tblFleetMix	HHD	0.03	0.09
tblFleetMix	LDA	0.55	0.48

Spring Street - South Coast AQMD Air District, Winter

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.20	0.18
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.8460e-003	0.02
tblFleetMix	MCY	4.8550e-003	0.00
tblFleetMix	MDV	0.12	0.11
tblFleetMix	MH	8.9600e-004	0.00
tblFleetMix	MHD	0.02	0.05
tblFleetMix	OBUS	2.0990e-003	0.00
tblFleetMix	SBUS	7.0900e-004	0.00
tblFleetMix	UBUS	1.8280e-003	0.00
tblGrading	AcresOfGrading	30.00	7.80
tblGrading	MaterialImported	0.00	7,500.00
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	1.49	1.53
tblVehicleTrips	SU_TR	0.62	0.64
tblVehicleTrips	WD_TR	3.82	3.93

2.0 Emissions Summary

Spring Street - South Coast AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Energy	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Mobile	1.0915	13.8351	15.6892	0.0866	6.0470	0.0690	6.1160	1.6292	0.0649	1.6941		8,929.6156	8,929.6156	0.3442		8,938.2193
Total	4.8454	14.6164	16.3622	0.0913	6.0470	0.1285	6.1754	1.6292	0.1244	1.7535		9,867.0187	9,867.0187	0.3622	0.0172	9,881.1951

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Energy	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Mobile	1.0915	13.8351	15.6892	0.0866	6.0470	0.0690	6.1160	1.6292	0.0649	1.6941		8,929.6156	8,929.6156	0.3442		8,938.2193
Total	4.8454	14.6164	16.3622	0.0913	6.0470	0.1285	6.1754	1.6292	0.1244	1.7535		9,867.0187	9,867.0187	0.3622	0.0172	9,881.1951

Spring Street - South Coast AQMD Air District, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/18/2021	2/12/2021	5	20	
3	Building Construction	Building Construction	2/15/2021	12/31/2021	5	230	
4	Architectural Coating	Architectural Coating	9/6/2021	12/31/2021	5	85	
5	Paving	Paving	1/3/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 7.8

Acres of Paving: 4.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 241,010; Non-Residential Outdoor: 80,337; Striped Parking Area: 10,742 (Architectural Coating – sqft)

OffRoad Equipment

Spring Street - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	143.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	29.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Spring Street - South Coast AQMD Air District, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Spring Street - South Coast AQMD Air District, Winter

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	8.1298	2.0445	10.1743	4.4688	1.8809	6.3497	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Spring Street - South Coast AQMD Air District, Winter

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4781	0.0000	6.4781	3.3613	0.0000	3.3613			0.0000			0.0000
Off-Road	2.4288	27.5986	12.8097	0.0303		1.1365	1.1365		1.0456	1.0456		2,936.9478	2,936.9478	0.9499		2,960.6945
Total	2.4288	27.5986	12.8097	0.0303	6.4781	1.1365	7.6146	3.3613	1.0456	4.4069		2,936.9478	2,936.9478	0.9499		2,960.6945

Spring Street - South Coast AQMD Air District, Winter

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3500	12.0063	2.6963	0.0353	0.8195	0.0373	0.8569	0.2246	0.0357	0.2603		3,818.5761	3,818.5761	0.2705		3,825.3390
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	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.3869	12.0302	2.9671	0.0361	0.9090	0.0380	0.9469	0.2483	0.0363	0.2846		3,901.4295	3,901.4295	0.2727		3,908.2479

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9151	0.0000	2.9151	1.5126	0.0000	1.5126			0.0000			0.0000
Off-Road	2.4288	27.5986	12.8097	0.0303		1.1365	1.1365		1.0456	1.0456	0.0000	2,936.9478	2,936.9478	0.9499		2,960.6945
Total	2.4288	27.5986	12.8097	0.0303	2.9151	1.1365	4.0517	1.5126	1.0456	2.5582	0.0000	2,936.9478	2,936.9478	0.9499		2,960.6945

Spring Street - South Coast AQMD Air District, Winter

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3500	12.0063	2.6963	0.0353	0.8195	0.0373	0.8569	0.2246	0.0357	0.2603		3,818.5761	3,818.5761	0.2705		3,825.3390
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	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.3869	12.0302	2.9671	0.0361	0.9090	0.0380	0.9469	0.2483	0.0363	0.2846		3,901.4295	3,901.4295	0.2727		3,908.2479

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598		3,042.2603	3,042.2603	0.7741		3,061.6137
Total	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598		3,042.2603	3,042.2603	0.7741		3,061.6137

Spring Street - South Coast AQMD Air District, Winter

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1640	5.3241	1.4183	0.0139	0.3584	0.0111	0.3695	0.1032	0.0106	0.1138		1,481.4811	1,481.4811	0.0991		1,483.9591
Worker	0.6595	0.4286	4.8411	0.0149	1.5984	0.0118	1.6102	0.4239	0.0108	0.4347		1,481.0051	1,481.0051	0.0397		1,481.9973
Total	0.8235	5.7527	6.2594	0.0287	1.9568	0.0229	1.9797	0.5271	0.0215	0.5485		2,962.4861	2,962.4861	0.1388		2,965.9565

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	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598	0.0000	3,042.2603	3,042.2603	0.7741		3,061.6137
Total	2.2622	21.6753	18.3102	0.0320		1.1309	1.1309		1.0598	1.0598	0.0000	3,042.2603	3,042.2603	0.7741		3,061.6137

Spring Street - South Coast AQMD Air District, Winter

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1640	5.3241	1.4183	0.0139	0.3584	0.0111	0.3695	0.1032	0.0106	0.1138		1,481.4811	1,481.4811	0.0991		1,483.9591
Worker	0.6595	0.4286	4.8411	0.0149	1.5984	0.0118	1.6102	0.4239	0.0108	0.4347		1,481.0051	1,481.0051	0.0397		1,481.9973
Total	0.8235	5.7527	6.2594	0.0287	1.9568	0.0229	1.9797	0.5271	0.0215	0.5485		2,962.4861	2,962.4861	0.1388		2,965.9565

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.1086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618
Total	18.5464	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882		562.8961	562.8961	0.0386		563.8618

Spring Street - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1337	0.0869	0.9818	3.0100e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		300.3437	300.3437	8.0500e-003		300.5449
Total	0.1337	0.0869	0.9818	3.0100e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		300.3437	300.3437	8.0500e-003		300.5449

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	18.1086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4378	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618
Total	18.5464	3.0537	3.6351	5.9400e-003		0.1882	0.1882		0.1882	0.1882	0.0000	562.8961	562.8961	0.0386		563.8618

Spring Street - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1337	0.0869	0.9818	3.0100e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		300.3437	300.3437	8.0500e-003		300.5449
Total	0.1337	0.0869	0.9818	3.0100e-003	0.3242	2.3900e-003	0.3265	0.0860	2.2000e-003	0.0882		300.3437	300.3437	8.0500e-003		300.5449

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6412	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Spring Street - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6412	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Spring Street - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Spring Street - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0915	13.8351	15.6892	0.0866	6.0470	0.0690	6.1160	1.6292	0.0649	1.6941		8,929.6156	8,929.6156	0.3442		8,938.2193
Unmitigated	1.0915	13.8351	15.6892	0.0866	6.0470	0.0690	6.1160	1.6292	0.0649	1.6941		8,929.6156	8,929.6156	0.3442		8,938.2193

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	631.44	245.83	102.83	2,217,862	2,217,862
Parking Lot	0.00	0.00	0.00		
Total	631.44	245.83	102.83	2,217,862	2,217,862

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.480870	0.037879	0.175844	0.105406	0.042175	0.015298	0.054994	0.087533	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

Spring Street - South Coast AQMD Air District, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
NaturalGas Unmitigated	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

Spring Street - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	7967.62	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

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					
Manufacturing	7.96762	0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0859	0.7811	0.6562	4.6900e-003		0.0594	0.0594		0.0594	0.0594		937.3671	937.3671	0.0180	0.0172	942.9374

6.0 Area Detail

6.1 Mitigation Measures Area

Spring Street - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Unmitigated	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

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	0.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5700e-003	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Total	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

Spring Street - South Coast AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5700e-003	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384
Total	3.6680	1.5000e-004	0.0169	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0361	0.0361	1.0000e-004		0.0384

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Spring Street - South Coast AQMD Air District, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

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