

Appendix B  
Air Quality Data

## Air Quality Appendix

- A. Wind and Climate Information
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- C. Regional Construction Emissions
- D. Localized Construction Modeling
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## Appendix A

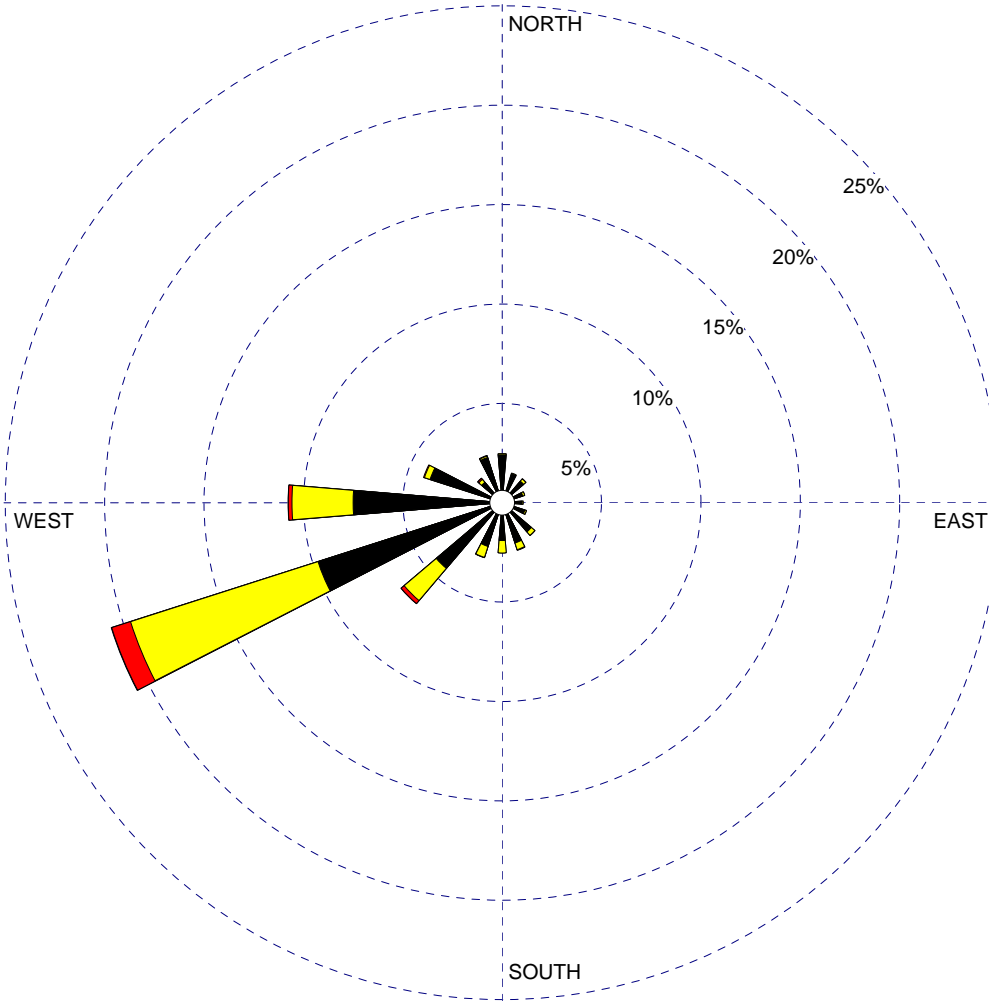
### Wind and Climate Information

WIND ROSE PLOT:

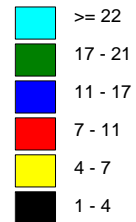
**Jordan Downs**

DISPLAY:

**Wind Speed  
Direction (blowing from)**



WIND SPEED  
(Knots)



COMMENTS:

DATA PERIOD:

**2005  
Jan 1 - Dec 31  
00:00 - 23:00**

COMPANY NAME:

MODELER:

CALM WINDS:

**34.45%**

TOTAL COUNT:

**25852 hrs.**

AVG. WIND SPEED:

**3.21 Knots**

DATE:

**3/16/2010**

PROJECT NO.:

**2008-079**

# LOS ANGELES CIVIC CENTE, CALIFORNIA

## Period of Record General Climate Summary - Precipitation

Station:(045115) LOS ANGELES CIVIC CENTE														
From Year=1906 To Year=2009														
	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year	
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	3.23	14.94	1969	0.00	1948	5.71	26/1956	6	4	2	1	0.0	0.3	1949
February	3.40	13.68	1998	0.00	1912	4.80	24/1913	6	5	2	1	0.0	0.0	1949
March	2.41	8.37	1983	0.00	1931	5.88	02/1938	6	4	2	1	0.0	0.0	1949
April	1.01	7.53	1926	0.00	1909	2.74	05/1926	3	2	1	0	0.0	0.2	1950
May	0.25	3.57	1921	0.00	1923	2.02	08/1977	1	1	0	0	0.0	0.0	1949
June	0.07	0.98	1999	0.00	1908	0.76	05/1993	1	0	0	0	0.0	0.0	1913
July	0.01	0.18	1986	0.00	1907	0.60	25/1906	0	0	0	0	0.0	0.0	1948
August	0.05	2.26	1977	0.00	1907	2.06	17/1977	0	0	0	0	0.0	0.0	1948
September	0.28	5.67	1939	0.00	1907	3.96	25/1939	1	1	0	0	0.0	0.0	1948
October	0.46	4.56	2004	0.00	1913	1.72	17/1934	2	1	0	0	0.0	0.0	1948
November	1.26	9.68	1965	0.00	1907	3.85	07/1966	3	2	1	0	0.0	0.0	1948
December	2.34	8.77	2004	0.00	1912	5.55	28/2004	5	4	2	1	0.0	0.0	1948
Annual	14.76	34.04	1983	3.85	1953	5.88	19380302	36	23	10	4	0.0	0.3	1949
Winter	8.97	29.11	2005	1.19	1924	5.71	19560126	18	13	6	3	0.0	0.3	1949
Spring	3.67	13.89	1983	0.00	1997	5.88	19380302	11	7	2	1	0.0	0.2	1950
Summer	0.12	2.26	1977	0.00	1912	2.06	19770817	1	0	0	0	0.0	0.0	1949
Fall	2.00	11.48	1965	0.00	1980	3.96	19390925	6	4	1	0	0.0	0.0	1948

Table updated on Mar 19, 2010

For monthly and annual means, thresholds, and sums:

Months with 5 or more missing days are not considered

Years with 1 or more missing months are not considered

Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

# LOS ANGELES CIVIC CENTE, CALIFORNIA

## Period of Record General Climate Summary - Temperature

Station:(045115) LOS ANGELES CIVIC CENTE															
From Year=1906 To Year=2009															
	Monthly Averages			Daily Extremes				Monthly Extremes				Max. Temp.		Min. Temp.	
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<= 32 F	<= 32 F	<= 0 F
	F	F	F	F	dd/yyyy or yyyymmdd	F	dd/yyyy or yyyymmdd	F	-	F	-	# Days	# Days	# Days	# Days
January	66.3	48.3	57.3	95	18/1971	28	07/1913	65.9	1986	46.9	1949	0.1	0.0	0.1	0.0
February	67.3	49.6	58.4	95	20/1995	25	19/1911	65.3	1995	51.9	1911	0.1	0.0	0.0	0.0
March	68.8	51.1	60.0	98	26/1988	35	04/1976	66.0	1931	54.6	1945	0.2	0.0	0.0	0.0
April	71.0	53.4	62.2	106	06/1989	39	07/1975	69.6	1992	56.0	1975	0.8	0.0	0.0	0.0
May	72.9	56.5	64.7	102	16/1967	40	12/1933	72.6	1997	58.7	1917	0.9	0.0	0.0	0.0
June	77.0	59.7	68.3	112	26/1990	49	01/1917	77.4	1981	63.4	1944	1.3	0.0	0.0	0.0
July	82.3	63.2	72.7	107	01/1985	53	17/1907	79.9	2006	66.6	1944	3.2	0.0	0.0	0.0
August	83.1	63.8	73.4	105	06/1983	52	25/1909	80.8	1983	68.1	1914	4.0	0.0	0.0	0.0
September	81.8	62.6	72.2	110	01/1955	50	22/1921	81.3	1984	64.6	1933	4.9	0.0	0.0	0.0
October	77.6	58.7	68.1	108	03/1987	41	30/1971	74.2	1983	59.7	1916	3.1	0.0	0.0	0.0
November	72.8	53.3	63.1	100	01/1966	37	28/1919	68.9	1932	57.9	1906	0.8	0.0	0.0	0.0
December	67.4	49.1	58.2	92	08/1938	30	08/1978	64.2	1939	52.6	1916	0.0	0.0	0.0	0.0
Annual	74.0	55.8	64.9	112	19900626	25	19110219	68.9	1981	60.9	1916	19.4	0.0	0.1	0.0
Winter	67.0	49.0	58.0	95	19710118	25	19110219	63.3	1986	51.0	1949	0.2	0.0	0.1	0.0
Spring	70.9	53.7	62.3	106	19890406	35	19760304	67.8	1997	57.8	1917	1.9	0.0	0.0	0.0
Summer	80.8	62.2	71.5	112	19900626	49	19170601	77.6	1981	66.4	1916	8.5	0.0	0.0	0.0
Fall	77.4	58.2	67.8	110	19550901	37	19191128	72.2	1983	61.4	1916	8.8	0.0	0.0	0.0

Table updated on Mar 19, 2010

For monthly and annual means, thresholds, and sums:  
 Months with 5 or more missing days are not considered  
 Years with 1 or more missing months are not considered  
 Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

Western Regional Climate Center, [wrcc@dri.edu](mailto:wrcc@dri.edu)

## Appendix B

### Ambient Air Data

**2006 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2006**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide <sup>a)</sup>			Ozone <sup>b)</sup>										Nitrogen Dioxide <sup>c)</sup>			Sulfur Dioxide <sup>d)</sup>				
		No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Fourth High Conc. ppm 8-hour	No. Days Standard Exceeded					No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 24-hour	Annual Average Conc. ppm AAM	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 24-hour	Annual Average Conc. ppm AAM	
									Health Advisory	Federal	State	≥ 0.15 ppm 1-hour	> 0.12 ppm 1-hour									> 0.08 ppm 8-hour
<b>LOS ANGELES COUNTY</b>																						
1	Central LA	087	362	3	2.6	362	0.11	0.079	0.077	0	0	0	8	4	360	0.11	0.06	0.0288	365	0.03	0.006	0.0019
2	Northwest Coastal LA County	091	365	3	2.0	365	0.10	0.074	0.069	0	0	0	3	0	365	0.08	0.05	0.0173	--	--	--	--
3	Southwest Coastal LA County	820	363	3	2.3	360	0.08	0.066	0.062	0	0	0	0	0	351	0.10	0.05	0.0155	363	0.02	0.006	0.0020
4	South Coastal LA County 1	072	360	4	3.4	364	0.08	0.058	0.058	0	0	0	0	0	357	0.10	0.05	0.0215	364	0.03	0.010	0.0012
4	South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	West San Fernando Valley	074	365	5	3.4	361	0.16	0.108	0.105	1	6	17	32	39	363	0.07	0.04	0.0174	--	--	--	--
7	East San Fernando Valley	069	365	4	3.5	365	0.17	0.128	0.099	2	6	12	25	23	365	0.10	0.05	0.0274	360	0.01	0.004	0.0006
8	West San Gabriel Valley	088	360	4	2.8	365	0.15	0.117	0.095	1	5	7	25	24	365	0.12	0.06	0.0245	--	--	--	--
9	East San Gabriel Valley 1	060	365	2	1.7	364	0.17	0.120	0.091	2	7	10	23	19	365	0.11	0.07	0.0258	--	--	--	--
9	East San Gabriel Valley 2	591	363	2	2.0	363	0.18	0.128	0.107	2	10	15	37	31	362	0.10	0.06	0.0206	--	--	--	--
10	Pomona/Walnut Valley	075	365	3	2.1	365	0.15	0.128	0.109	2	9	16	32	30	365	0.10	0.06	0.0307	--	--	--	--
11	South San Gabriel Valley	085	232*	3*	2.7*	250*	0.13*	0.095*	0.080*	0*	1*	3*	9*	5*	204*	0.10*	0.06*	0.0283*	--	--	--	--
12	South Central LA County	084	365	8	6.4	365	0.09	0.066	0.064	0	0	0	0	0	363	0.14	0.08	0.0306	--	--	--	--
13	Santa Clarita Valley	090	363	2	1.3	359	0.16	0.120	0.112	1	20	40	62	64	359	0.08	0.04	0.0184	--	--	--	--
<b>ORANGE COUNTY</b>																						
16	North Orange County	3177	362	6	3.0	362	0.15	0.114	0.092	1	3	4	8	9	361	0.09	0.05	0.0224	--	--	--	--
17	Central Orange County	3176	365	5	3.0	365	0.11	0.088	0.072	0	0	1	5	3	343	0.11	0.06	0.0197	--	--	--	--
18	North Coastal Orange County	3195	365	4	3.0	365	0.07	0.064	0.062	0	0	0	0	0	361	0.10	0.05	0.0145	353	0.01	0.004	0.0013
19	Saddleback Valley	3812	365	2	1.8	356	0.12	0.105	0.092	0	0	6	13	17	--	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																						
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	365	3	2.1	365	0.15	0.116	0.113	1	8	30	45	59	365	0.08	0.05	0.0199	365	0.01	0.004	0.0013
23	Metropolitan Riverside County 2	4146	365	4	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Mira Loma	5214	364	4	2.7	364	0.16	0.119	0.107	1	4	25	39	48	332	0.08	0.05	0.0194	--	--	--	--
24	Perris Valley	4149	--	--	--	351	0.17	0.122	0.114	3	12	53	76	84	--	--	--	--	--	--	--	--
25	Lake Elsinore	4158	362	1	1.0	362	0.14	0.109	0.102	0	3	24	40	58	352	0.07	0.05	0.0151	--	--	--	--
29	Banning Airport	4164	--	--	--	357	0.14	0.115	0.104	0	8	44	57	78	355	0.11	0.04	0.0161	--	--	--	--
30	Coachella Valley 1**	4137	365	2	1.0	361	0.13	0.109	0.101	0	2	23	37	67	359	0.09	0.05	0.0103	--	--	--	--
30	Coachella Valley 2**	4157	--	--	--	364	0.10	0.089	0.087	0	0	7	4	29	--	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																						
32	Northwest San Bernardino Valley	5175	360	3	1.8	365	0.17	0.130	0.114	2	14	25	50	54	337	0.10	0.07	0.0310	--	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	365	3	2.0	361	0.16	0.123	0.116	1	12	29	47	49	362	0.09	0.06	0.0270	365	0.01	0.003	0.0019
34	Central San Bernardino Valley 2	5203	364	3	2.3	362	0.15	0.127	0.119	3	10	29	52	57	362	0.09	0.05	0.0252	--	--	--	--
35	East San Bernardino Valley	5204	--	--	--	365	0.16	0.135	0.125	5	11	36	60	64	--	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	365	0.16	0.142	0.112	2	9	59	71	96	--	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM			8	6.4		0.18	0.142	0.125	5	20	59	76	96		0.14	0.08	0.0310		0.03	0.010	0.0020	
SOUTH COAST AIR BASIN			8	6.4		0.18	0.142	0.125	10	35	86	102	121		0.14	0.08	0.0310		0.03	0.010	0.0020	

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.

The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005.

The 8-hour average California ozone standard of 0.07 ppm was established effective May 17, 2006.

c) - The state standard is 1-hour average NO<sub>2</sub> > 0.25 ppm. The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. Air Resources Board has approved to lower the NO<sub>2</sub> 1-hour standard to 0.18 ppm and establish a new annual standard of 0.030 ppm. The revisions are expected to become effective later in 2007.

d) - The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm and 24-hour average SO<sub>2</sub> > 0.04 ppm. The federal standards are annual arithmetic mean SO<sub>2</sub> > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO<sub>2</sub> standards were not exceeded.



**South Coast  
Air Quality Management District**  
21865 Copley Drive  
Diamond Bar, CA 91765-4182  
www.aqmd.gov

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/telemweb/areamap.aspx>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.



**2006 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2006**

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 <sup>e)</sup>					Fine Particulates PM2.5 <sup>f)</sup>					Particulates TSP <sup>g)</sup>			Lead <sup>g)</sup>		Sulfate <sup>g)</sup>		
		No. Days	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standard		Annual Average Conc. $\mu\text{g}/\text{m}^3$ <sup>AAM<sup>h)</sup></sup>	No. Days of	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	98th Percentile Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standard		Annual Averages Conc. $\mu\text{g}/\text{m}^3$ <sup>AAM<sup>j)</sup></sup>	No. Days of	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	Annual Average Conc. $\mu\text{g}/\text{m}^3$ <sup>AAM<sup>j)</sup></sup>	Max. Monthly Average Conc. $\mu\text{g}/\text{m}^3$ <sup>Conc. k)</sup>	Max. Quarterly Average Conc. $\mu\text{g}/\text{m}^3$ <sup>Conc. k)</sup>	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	Standard Exceeding $\mu\text{g}/\text{m}^3$ <sup>State</sup>
				Federal	State					Federal <sup>i)</sup>	Federal <sup>i)</sup>								
<b>LOS ANGELES COUNTY</b>																			
1 Central LA	087	59	59	0	3(5.1)	30.3	330	56.2	38.9	11(3.3)	0	15.6	59	109	63.3	0.02	0.01	18.2	0
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	56	76	40.2	--	--	12.2	0
3 Southwest Coastal LA County	820	51	45	0	0	26.5	--	--	--	--	--	--	56	84	43.1	0.01	0.01	13.6	0
4 South Coastal LA County 1	072	61	78	0	6(9.8)	31.1	290*	58.5*	34.9*	5(1.7)*	0*	14.2*	62	157	62.9	0.01	0.01	17.8	0
4 South Coastal LA County 2	077	58	117	0	19(32.7)	45.0	320	53.6	35.3	6(1.9)	0	14.5	59	192	71.1	0.01	0.01	18.8	0
6 West San Fernando Valley	074	--	--	--	--	--	92	44.1	32.0	1(1.1)	0	12.9	--	--	--	--	--	--	--
7 East San Fernando Valley	069	54	71	0	10(18.5)	35.6	104	50.7	43.4	6(5.8)	0	16.6	--	--	--	--	--	--	--
8 West San Gabriel Valley	088	--	--	--	--	--	113	45.9	32.1	1(0.9)	0	13.4	60	123	42.8	--	--	28.7	1(1.7)
9 East San Gabriel Valley 1	060	58	81	0	7(12.1)	31.9	278*	52.8*	38.5*	8(2.9)*	0*	15.5*	59	142	68.4	--	--	20.8	0
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11 South San Gabriel Valley	085	--	--	--	--	--	116	72.2	43.1	7(6)	1(0.9)	16.7	58	768	79.3	0.03	0.02	28.6	1(1.7)
12 South Central LA County	084	--	--	--	--	--	107	55.0	44.5	4(3.7)	0	16.7	58	147	68.4	0.02	0.02	24.1	0
13 Santa Clarita Valley	090	58	53	0	1(1.7)	23.4	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>ORANGE COUNTY</b>																			
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17 Central Orange County	3176	56	104	0	7(12.5)	33.4	330	56.2	40.5	8(2.4)	0	14.1	--	--	--	--	--	--	--
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley	3812	50	57	0	1(2.0)	22.8	106	47.0	25.7	1(0.9)	0	11.0	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																			
22 Norco/Corona	4155	57	74	0	10(17.5)	36.5	--	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	118	109	0	71(60.2)	54.4	300	68.5	53.7	32(10.7)	1(0.3)	19.0	59	169	91.2	0.01	0.01	10.8	0
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	105	55.3	47.7	9(8.6)	0	17.0	59	131	72.9	0.01	0.01	9.9	0
23 Mira Loma	5214	59	124	0	41(69.5)	64.0	113	63.0	52.5	14(12.4)	0	20.6	--	--	--	--	--	--	--
24 Perris Valley	4149	54	125	0	19(35.2)	45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29 Banning Airport	4164	55	75	0	8(14.6)	31.1	--	--	--	--	--	--	--	--	--	--	--	--	--
30 Coachella Valley 1**	4137	57	73+	0+	2(3.5)+	24.5+	111	24.8	15.9	0	0	7.7	--	--	--	--	--	--	--
30 Coachella Valley 2**	4157	115	122+	0+	57(49.6)+	52.7+	107	24.3	19.1	0	0	9.5	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																			
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	--	58	105	54.6	0.01	0.01	9.1	0
33 Southwest San Bernardino Valley	5817	62	78	0	17(27.4)	42.3	107	53.7	41.5	7(6.5)	0	18.5	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1	5197	60	142	0	31(51.7)	53.5	112	52.6	43.8	7(6.3)	0	17.6	59	190	101.0	--	--	10.3	0
34 Central San Bernardino Valley 2	5203	57	92	0	24(42.1)	46.0	102	55.0	48.4	8(7.8)	0	17.8	54	174	87.0	0.02	0.01	11.0	0
35 East San Bernardino Valley	5204	60	103	0	12(20.0)	36.2	--	--	--	--	--	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	58	63	0	1(1.7)	26.2	--	--	--	--	--	--	--	--	--	--	--	--	--
38 East San Bernardino Mountains	5818	--	--	--	--	--	42*	40.1*	40.1*	1(2.4)*	0*	11.2*	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>			142+	0+	71	64.0		72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	1
<b>SOUTH COAST AIR BASIN</b>			142+	0+	75	64.0		72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	1

$\mu\text{g}/\text{m}^3$  - Micrograms per cubic meter of air

AAM - Annual Arithmetic Mean

-- - Pollutant not monitored

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.

e) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

f) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

g) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

h) - Federal annual PM10 standard (AAM > 50  $\mu\text{g}/\text{m}^3$ ) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20  $\mu\text{g}/\text{m}^3$ .

i) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65  $\mu\text{g}/\text{m}^3$  to 35  $\mu\text{g}/\text{m}^3$ ; effective December 17, 2006.

j) - Federal PM2.5 standard is annual average (AAM) > 15  $\mu\text{g}/\text{m}^3$ . State standard is annual average (AAM) > 12  $\mu\text{g}/\text{m}^3$ .

k) - Federal lead standard is quarterly average > 1.5  $\mu\text{g}/\text{m}^3$ ; and state standard is monthly average  $\geq$  1.5  $\mu\text{g}/\text{m}^3$ . No location exceeded lead standards.

Maximum monthly and quarterly lead concentrations at special monitoring sites immediately downwind of stationary lead sources were 0.24  $\mu\text{g}/\text{m}^3$  and 0.22  $\mu\text{g}/\text{m}^3$ , respectively, both recorded at Central Los Angeles.

+ - The data for the samples collected on a high-wind day (July 16, 2006) at Palm Springs and Indio (226  $\mu\text{g}/\text{m}^3$  and 313  $\mu\text{g}/\text{m}^3$ , respectively) were excluded in accordance with EPA's Natural Events Policy.



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**2007 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2007**

Source/Receptor Area No. Location	Station No. State Code District Code		Carbon Monoxide <sup>a)</sup>			Ozone										Nitrogen Dioxide <sup>d)</sup>			Sulfur Dioxide <sup>e)</sup>				
			No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Fourth High Conc. ppm 8-hour	No. Days Standard Exceeded					No. Days of Data	Max. Conc. in ppm 1-hour	Annual Average AAM Conc. ppm	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 24-hour	Annual Average AAM Conc. ppm		
										Health Advisory $\geq 0.15$ ppm 1-hour	Federal <sup>b)</sup>			State <sup>c)</sup>									
											> 0.12 ppm 1-hour	> 0.08 ppm 8-hour	> 0.075 ppm 8-hour	> 0.09 ppm 1-hour								> 0.070 ppm 8-hour	
<b>LOS ANGELES COUNTY</b>																							
1	Central LA	70087	087	359	3	2.2	355	0.115	0.102	0.072	0	0	2	3	3	6	360	0.10	0.0299	351	0.01	0.003	0.0009
2	Northwest Coastal LA County	70091	091	365	3	2.0	360	0.117	0.087	0.067	0	0	1	2	2	2	353	0.08	0.0200	--	--	--	--
3	Southwest Coastal LA County	70111	820	361	3	2.4	361	0.087	0.074	0.066	0	0	0	0	0	1	331*	0.08	0.0140	361	0.02	0.009	0.0028
4	South Coastal LA County 1	70072	072	347*	3	2.6	365	0.099	0.073	0.056	0	0	0	0	1	1	365	0.11	0.0207	365	0.11	0.011	0.0027
4	South Coastal LA County 2	70110	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	West San Fernando Valley	70074	074	358	4	2.8	358	0.129	0.104	0.092	0	1	8	28	21	43	358	0.08	0.0186	--	--	--	--
7	East San Fernando Valley	70069	069	365	4	2.8	365	0.116	0.096	0.088	0	0	6	13	13	19	363	0.09	0.0289	365	0.01	0.003	0.0010
8	West San Gabriel Valley	70088	088	365	3	2.3	365	0.149	0.100	0.089	0	3	6	11	13	21	365	0.09	0.0246	--	--	--	--
9	East San Gabriel Valley 1	70060	060	365	3	1.8	365	0.158	0.112	0.096	1	3	13	20	22	28	365	0.12	0.0253	--	--	--	--
9	East San Gabriel Valley 2	70591	591	365	2	2.0	364	0.147	0.116	0.104	0	3	14	26	25	40	365	0.11	0.0227	--	--	--	--
10	Pomona/Walnut Valley	70075	075	365	3	2.0	365	0.153	0.108	0.102	1	2	10	18	19	25	365	0.10	0.0318	--	--	--	--
11	South San Gabriel Valley	70185	085	365	5	2.9	364	0.135	0.100	0.079	0	2	2	5	6	9	361	0.11	0.0249	--	--	--	--
12	South Central LA County	70084	084	365	8	5.1	365	0.102	0.077	0.056	0	0	0	1	1	2	365	0.10	0.0291	--	--	--	--
13	Santa Clarita Valley	70090	090	361	2	1.2	357	0.135	0.110	0.101	0	2	16	44	31	64	339*	0.08	0.0196	--	--	--	--
<b>ORANGE COUNTY</b>																							
16	North Orange County	30177	3177	360	6	2.9	365	0.152	0.107	0.082	1	1	2	8	7	9	365	0.08	0.0219	--	--	--	--
17	Central Orange County	30178	3176	346*	4	2.9	365	0.127	0.099	0.073	0	1	1	1	2	7	359	0.10	0.0208	--	--	--	--
18	North Coastal Orange County	30195	3195	362	5	3.1	362	0.082	0.072	0.065	0	0	0	0	0	2	362	0.07	0.0132	358	0.01	0.004	0.0010
19	Saddleback Valley	30002	3812	364	3	2.2	365	0.108	0.089	0.080	0	0	2	5	5	10	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																							
22	Norco/Corona	33155	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	33144	4144	364	4	2.9	365	0.131	0.111	0.099	0	2	15	46	31	69	364	0.07	0.0206	323*	0.02	0.002	0.0017
23	Metropolitan Riverside County 2	33146	4146	365	4	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Mira Loma	33165	5214	359	3	2.1	360	0.118	0.104	0.092	0	0	10	23	16	48	349*	0.07	0.0181	--	--	--	--
24	Perris Valley	33149	4149	--	--	--	365	0.139	0.116	0.103	0	4	37	73	66	88	--	--	--	--	--	--	--
25	Lake Elsinore	33158	4158	365	2	1.4	359	0.130	0.108	0.097	0	3	19	35	26	55	358	0.06	0.0174	--	--	--	--
29	Banning Airport	33164	4164	--	--	--	365	0.129	0.113	0.095	0	1	12	43	28	63	363	0.08	0.0147	--	--	--	--
30	Coachella Valley 1**	33137	4137	365	2	0.8	365	0.126	0.101	0.097	0	1	20	58	29	83	365	0.06	0.0103	--	--	--	--
30	Coachella Valley 2**	33155	4157	--	--	--	365	0.106	0.094	0.087	0	0	6	29	8	48	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																							
32	Northwest San Bernardino Valley	36175	5175	365	2	1.7	365	0.145	0.115	0.112	0	7	18	35	32	55	327*	0.10	0.0276	--	--	--	--
33	Southwest San Bernardino Valley	36025	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	36197	5197	359	3	1.8	359	0.144	0.122	0.112	0	9	19	43	40	60	358	0.09	0.0239	359	0.01	0.004	0.0019
34	Central San Bernardino Valley 2	36203	5203	365	4	2.3	365	0.153	0.121	0.117	1	8	24	51	48	74	351	0.08	0.0245	--	--	--	--
35	East San Bernardino Valley	36204	5204	--	--	--	365	0.149	0.124	0.112	0	7	25	58	54	79	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	36181	5181	--	--	--	365	0.171	0.137	0.126	4	13	59	93	67	115	--	--	--	--	--	--	--
38	East San Bernardino Mountains	36001	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>				8	5.1		0.171	0.137	0.126	4	13	59	93	67	115		0.12	0.0318		0.11	0.011	0.0028	
<b>SOUTH COAST AIR BASIN</b>				8	5.1		0.171	0.137	0.126	5	18	79	108	96	128		0.12	0.0318		0.11	0.011	0.0028	

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- Pollutant not monitored.

\* Less than 12 full months of data; may not be representative.

\*\* Salton Sea Air Basin.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.

The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal

8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.

d) - The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. California Air Resources Board has revised the NO<sub>2</sub> 1-hour state standard from 0.25 ppm to 0.18 ppm

and has established a new annual standard of 0.030 ppm, effective March 20, 2008.

e) - The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm and 24-hour average SO<sub>2</sub> > 0.04 ppm. The federal standards are annual

arithmetic mean SO<sub>2</sub> > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO<sub>2</sub> standards were not exceeded.



**South Coast  
Air Quality Management District**  
21865 Copley Drive  
Diamond Bar, CA 91765-4182  
www.aqmd.gov

The map showing the locations of source/receptor areas can be accessed via the Internet at <http://www.aqmd.gov/telemweb/areamap.aspx>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**2007 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2007**

Source/Receptor Area No. Location	Station No.		Suspended Particulates PM10 <sup>f)</sup>					Fine Particulates PM2.5 <sup>g)</sup>					Particulates <sup>h)</sup>		Lead <sup>h)</sup>		Sulfate <sup>h)</sup>				
	State Code	District Code	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Standards		Annual Average Conc. <sup>i)</sup> µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	98 <sup>th</sup> Percentile Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Standards		Annual Average Conc. <sup>k)</sup> µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	Max. Monthly Average Conc. <sup>l)</sup> µg/m <sup>3</sup>	Max. Quarterly Average Conc. <sup>l)</sup> µg/m <sup>3</sup>	Max. Conc. in µg/m <sup>3</sup> 24-hour	%Samples Exceeding State Standard ≥ 25 µg/m <sup>3</sup> 24-hour	
					Federal > 150 µg/m <sup>3</sup> 24-hour	State > 50 µg/m <sup>3</sup> 24-hour					Current > 35 <sup>j)</sup> µg/m <sup>3</sup> 24-hour	Old > 65 <sup>j)</sup> µg/m <sup>3</sup> 24-hour									
<b>LOS ANGELES COUNTY</b>																					
1	Central LA	70087	087	56	78	0	5(9)	33.3	324	64.2	51.2	20(0.6)	0	16.8	58	194	73.5	0.04	0.03	10.5	0
2	Northwest Coastal LA County	70091	091	--	--	--	--	--	--	--	--	--	--	--	57	180	57.6	--	--	9.7	0
3	Southwest Coastal LA County	70111	820	56	96	0	2(4)	27.7	--	--	--	--	--	55	286	51.8	0.02	0.01	10.5	0	
4	South Coastal LA County 1	70072	072	57	75+	0+	5(9)+	30.2+	332	82.9	40.8	12(3.6)	1(0.3)	14.6	59	732	76.5	0.02	0.01	11.1	0
4	South Coastal LA County 2	70110	077	56	123+	0+	17(30)+	41.7+	326	68.0	33.7	6(1.8)	1(0.3)	13.7	58	694	79.4	0.02	0.01	11.7	0
6	West San Fernando Valley	70074	074	--	--	--	--	--	95	43.3	33.4	1(1.1)	0	13.1	--	--	--	--	--	--	--
7	East San Fernando Valley	70069	069	54	109	0	11(20)	40.0	98	56.5	47.7	9(9.2)	0	16.8	--	--	--	--	--	--	--
8	West San Gabriel Valley	70088	088	--	--	--	--	--	108	68.9	45.4	3(2.8)	1(0.9)	14.3	56	123	46.3	--	--	22.4	0
9	East San Gabriel Valley 1	70060	060	55	83+	0+	11(20)+	35.6+	292*	63.8	49.3	19(6.5)	0	15.9	58	243	77.8	--	--	37.0++	1(1.7)++
9	East San Gabriel Valley 2	70591	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	70075	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	70185	085	--	--	--	--	--	101	63.6	49.5	5(5.0)	0	16.7	55	196	76.0	0.05	0.02	25.4++	1(1.7)++
12	South Central LA County	70084	084	--	--	--	--	--	106	49.0	46.1	4(3.8)	0	15.9	59	327	78.8	0.03	0.02	12.5	0
13	Santa Clarita Valley	70090	090	57	131+	0+	5(9)+	29.9+	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>ORANGE COUNTY</b>																					
16	North Orange County	30177	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	30178	3176	58	75+	0+	5(9)+	31.0+	336	79.4	46.5	14(4.2)	1(0.3)	14.5	--	--	--	--	--	--	--
18	North Coastal Orange County	30195	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	30002	3812	57	74	0	3(5)	23.0	98	46.9	35.0	2(2.0)	0	11.3	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																					
22	Norco/Corona	33155	4155	58	93+	0+	10(17)+	39.6+	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	33144	4144	116	118+	0+	66(57)+	54.6+	295*	75.7	54.3	33(11.2)	3(1.0)	19.1	57	237	111.0	0.02	0.01	13.0	0
23	Metropolitan Riverside County 2	33146	4146	--	--	--	--	--	101	68.6	57.3	8(7.9)	1(1.0)	18.1	60	674	88.9	0.02	0.01	9.3	0
23	Mira Loma	33165	5214	56	142	0	41(73)	68.5	110	69.7	60.1	13(11.8)	1(0.9)	21.0	--	--	--	--	--	--	--
24	Perris Valley	33149	4149	57	120+	0+	32(56)+	54.8+	--	--	--	--	--	--	--	--	--	--	--	--	--
25	Lake Elsinore	33158	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Banning Airport	33164	4164	48*	78	0	7(15)	33.3	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Coachella Valley 1**	33137	4137	54	83	0	6(11)	30.5	104	32.5	20.5	0	0	8.7	--	--	--	--	--	--	--
30	Coachella Valley 2**	33155	4157	84*	146+	0+	51(61)+	53.5+	97	26.8	26.5	0	0	9.8	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																					
32	Northwest San Bernardino Valley	36175	5175	--	--	--	--	--	--	--	--	--	--	--	60	206	63.5	0.02	0.01	7.6	0
33	Southwest San Bernardino Valley	36025	5817	58	115+	0+	14(24)+	43.4+	102	72.8	53.0	6(5.9)	1(1.0)	17.9	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	36197	5197	56	111+	0+	33(59)+	54.9+	107	77.5	64.9	10(9.3)	2(1.9)	19.0	58	242	96.2	--	--	20.3	0
34	Central San Bernardino Valley 2	36203	5203	57	136+	0+	28(49)+	51.4+	99	72.1	68.4	11(11.1)	3(3.0)	18.3	59	536	106.9	0.04	0.02	13.6	0
35	East San Bernardino Valley	36204	5204	60	97	0	19(32)	39.7	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	36181	5181	54	89	0	2(4)	27.2	--	--	--	--	--	--	--	--	--	--	--	--	--
38	East San Bernardino Mountains	36001	5818	--	--	--	--	--	54	45.4	34.0	1(1.9)	0	10.4	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>				--	146+	0+	66+	68.5+	--	82.9	68.4	33	3	21.0	--	732	111.0	0.05	0.03	37.0	1++
<b>SOUTH COAST AIR BASIN</b>				--	142+	0+	79+	68.5+	--	82.9	68.4	48	8	21.0	--	732	111.0	0.05	0.03	37.0	1++

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data; may not be representative.

\*\* Salton Sea Air Basin.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 µg/m<sup>3</sup>) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 µg/m<sup>3</sup>.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m<sup>3</sup> to 35 µg/m<sup>3</sup>; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m<sup>3</sup>. State standard is annual average (AAM) > 12 µg/m<sup>3</sup>.

l) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>; and state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>.

+ - The following PM10 data samples were excluded from compliance consideration in accordance with the EPA Exceptional Event Regulation: 210 and 157 µg/m<sup>3</sup> on March 22 and April 6, respectively, at Coachella Valley 2 (high wind events); 167 µg/m<sup>3</sup> on April 12 at Perris Valley (high wind event); 165 and 155 µg/m<sup>3</sup> on July 5 at East San Gabriel 1 and Central San Bernardino Valley 1, respectively (fireworks displays); and high concentrations throughout the District on October 21, with a maximum concentration of 559 µg/m<sup>3</sup> at Metropolitan Riverside County 1 (high wind and wildfire event).

++ - High sulfate concentrations were recorded on July 5, 2008, due to the 4<sup>th</sup> of July firework activities.



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**2008 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2008**

Station No. Source/Receptor Area No. Location				Carbon Monoxide <sup>a)</sup>			Ozone								Nitrogen Dioxide <sup>d)</sup>			Sulfur Dioxide <sup>e)</sup>						
				No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Fourth High Conc. 8-hour	Health Advisory $\geq 0.150$ ppm 1-hour	No. Days Standard Exceeded					No. Days of Data	Max. Conc. in ppm 1-hour	Annual Average <u>AAM</u> Conc. ppm	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 24-hour	Annual Average <u>AAM</u> Conc. ppm	
												Federal <sup>b)</sup>		State <sup>c)</sup>										
												Old > 0.12 ppm 1-hour	Old > 0.08 ppm 8-hour	Current > 0.075 ppm 8-hour	Current > 0.09 ppm 1-hour	Current > 0.070 ppm 8-hour								
<b>LOS ANGELES COUNTY</b>				366	3	2.1	356	0.109	0.090	0.073	0	0	1	3	3	7	343	0.12	0.0275	366	0.01	0.002	0.0003	
1	Central LA	70087	087	366	3	2.0	366	0.11	0.097	0.073	0	0	1	2	3	8	364	0.09	0.0184	--	--	--	--	
2	Northwest Coastal LA County	70091	091	358	4	2.5	360	0.086	0.075	0.065	0	0	0	0	1	359	0.09	0.0143	357	0.02	0.005	0.0014		
3	Southwest Coastal LA County	70111	820	366	3	2.6	366	0.093	0.074	0.064	0	0	0	0	1	366	0.13	0.0208	366	0.09	0.012	0.0022		
4	South Coastal LA County 1	70072	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
4	South Coastal LA County 2	70110	077	366	4	2.9	366	0.123	0.103	0.095	0	0	14	25	23	40	366	0.09	0.0180	--	--	--	--	
6	West San Fernando Valley	70074	074	366	3	2.6	366	0.133	0.109	0.092	0	1	8	17	20	35	364	0.11	0.0285	366	0.01	0.003	0.0008	
7	East San Fernando Valley	70069	069	366	3	2.1	366	0.122	0.100	0.091	0	0	6	16	16	26	365	0.11	0.0235	--	--	--	--	
8	West San Gabriel Valley	70088	088	366	2	1.6	366	0.135	0.111	0.101	0	7	14	28	34	39	366	0.10	0.0230	--	--	--	--	
9	East San Gabriel Valley 1	70060	060	366	3	3.0	366	0.156	0.118	0.112	2	12	25	45	48	61	366	0.10	0.0182	--	--	--	--	
9	East San Gabriel Valley 2	70591	591	366	3	2.0	366	0.141	0.110	0.100	0	5	19	35	32	47	366	0.11	0.0302	--	--	--	--	
10	Pomona/Walnut Valley	70075	075	357	3	2.1	366	0.107	0.093	0.077	0	0	1	5	7	13	341	0.10	0.0263	--	--	--	--	
11	South San Gabriel Valley	70185	085	310*	6*	4.3*	310*	0.078*	0.060*	0.055*	0*	0*	0*	0*	0*	0*	305*	0.12*	0.0301*	--	--	--	--	
12	South Central LA County+	70084+	084+	363	2	1.1	363	0.160	0.131	0.108	2	8	35	60	54	81	363	0.07	0.0165	--	--	--	--	
13	Santa Clarita Valley	70090	090	<b>ORANGE COUNTY</b>				366	0.104	0.084	0.078	0	0	0	5	7	15	361	0.08	0.0206	--	--	--	--
16	North Orange County	30177	3177	366	4	3.6	366	0.105	0.086	0.076	0	0	1	4	2	10	366	0.09	0.0203	--	--	--	--	
17	Central Orange County	30178	3176	366	3	2.0	366	0.094	0.079	0.075	0	0	0	3	0	6	365	0.08	0.0132	366	0.01	0.003	0.0011	
18	North Coastal Orange County	30195	3195	365	2	1.1	365	0.118	0.104	0.092	0	0	6	15	9	25	--	--	--	--	--	--		
19	Saddleback Valley	30002	3812	<b>RIVERSIDE COUNTY</b>				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	Norco/Corona	33155	4155	366	3	2.0	366	0.146	0.116	0.111	0	8	38	64	54	88	366	0.09	0.0192	366	0.01	0.003	0.0009	
23	Metropolitan Riverside County 1	33144	4144	366	7	2.0	--	--	--	--	--	--	--	--	--	--	70*	0.09*	0.0258*	--	--	--	--	
23	Metropolitan Riverside County 2	33146	4146	366	3	1.9	366	0.135	0.107	0.104	0	4	23	47	38	62	366	0.10	0.0174	--	--	--	--	
23	Mira Loma	33165	5214	--	--	--	366	0.142	0.114	0.106	0	4	41	77	65	94	--	--	--	--	--	--	--	
24	Perris Valley	33149	4149	365	1	1.0	365	0.139	0.118	0.108	0	6	32	69	49	92	362	0.06	0.0129	--	--	--	--	
25	Lake Elsinore	33158	4158	--	--	--	365	0.149	0.120	0.108	0	10	45	74	57	95	366	0.08	0.0128	--	--	--	--	
29	Banning Airport	33164	4164	366	1	0.6	366	0.11	0.101	0.098	0	0	20	51	26	70	366	0.05	0.0093	--	--	--	--	
30	Coachella Valley 1**	33137	4137	--	--	--	355	0.12	0.092	0.090	0	0	11	27	11	44	--	--	--	--	--	--	--	
30	Coachella Valley 2**	33157	4157	<b>SAN BERNARDINO COUNTY</b>				365	0.155	0.122	0.111	2	9	30	50	51	65	365	0.09	0.0235	--	--	--	--
32	Northwest San Bernardino Valley	36175	5175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
33	Southwest San Bernardino Valley	36025	5817	363	2	1.9	364	0.162	0.124	0.111	1	8	35	58	55	82	364	0.10	0.0207	364	0.01	0.003	0.0018	
34	Central San Bernardino Valley 1	36197	5197	366	2	1.8	366	0.157	0.122	0.113	2	11	43	62	62	90	366	0.09	0.0217	--	--	--	--	
34	Central San Bernardino Valley 2	36203	5203	--	--	--	366	0.154	0.120	0.112	1	12	50	75	72	100	--	--	--	--	--	--	--	
35	East San Bernardino Valley	36204	5204	--	--	--	362	0.176	0.126	0.120	2	16	67	97	78	115	--	--	--	--	--	--	--	
37	Central San Bernardino Mountains	36181	5181	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
38	East San Bernardino Mountains	36001	5818	<b>DISTRICT MAXIMUM</b>				366	0.176	0.131	0.120	2	16	67	97	78	115	0.13	0.0302	0.09	0.012	0.0022		
<b>SOUTH COAST AIR BASIN</b>				7	4.3	0.176	0.131	0.120	7	28	80	120	102	140	0.13	0.0302	0.09	0.012	0.0022					

ppm - Parts Per Million parts of air, by volume. AAM = Annual Arithmetic Mean -- Pollutant not monitored.  
 \* Less than 12 full months of data; may not be representative. \*\* Salton Sea Air Basin.

+ Site was relocated.

- a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.
- b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.
- c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.
- d) - The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. California Air Resources Board has revised the NO<sub>2</sub> 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.
- e) - The state standards are 1-hour average SO<sub>2</sub> > 0.25 ppm and 24-hour average SO<sub>2</sub> > 0.04 ppm. The federal standards are annual arithmetic mean SO<sub>2</sub> > 0.03 ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state SO<sub>2</sub> standards were not exceeded.



**South Coast  
Air Quality Management District**  
 21865 Copley Drive  
 Diamond Bar, CA 91765-4182  
[www.aqmd.gov](http://www.aqmd.gov)

Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webapp/gisaqi2/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webapp/gisaqi2/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.

**2008 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2008**

Source/Receptor Area No. Location	Station No.		Suspended Particulates PM10 <sup>f)</sup>					Fine Particulates PM2.5 <sup>g)</sup>					Particulates TSP <sup>h)</sup>			Lead <sup>h)</sup>		Sulfate <sup>h)</sup>			
	State Code	District Code	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Standards		Annual Average Conc. <sup>i)</sup> µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	98 <sup>th</sup> Percentile Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal Standard		Annual Average Conc. <sup>k)</sup> µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	Max. Monthly Average Conc. <sup>l)</sup> µg/m <sup>3</sup>	Max. Quarterly Average Conc. <sup>l)</sup> µg/m <sup>3</sup>	Max. Conc. in µg/m <sup>3</sup> 24-hour	%Samples Exceeding Standard ≥ 25 µg/m <sup>3</sup> 24-hour	
					Federal > 150 µg/m <sup>3</sup> 24-hour	State > 50 µg/m <sup>3</sup> 24-hour					Current > 35 <sup>j)</sup> µg/m <sup>3</sup> 24-hour	Old > 65 <sup>j)</sup> µg/m <sup>3</sup> 24-hour									
<b>LOS ANGELES COUNTY</b>																					
1	Central LA	70087	087	45*	66*	0*	2(4%)*	30.9*	337	78.3	40.4	10(3.0)	1(0.3)	15.7	63	112	65.6	0.02	0.02	14.4	0
2	Northwest Coastal LA County	70091	091	--	--	--	--	--	--	--	--	--	--	--	56	88	45.9	--	--	11.1	0
3	Southwest Coastal LA County	70111	820	60	50	0	0(0%)	25.6	--	--	--	--	--	--	54	85	42.4	0.01	0.01	14.0	0
4	South Coastal LA County 1	70072	072	57	62	0	1(2%)	29.1	346	57.2	38.9	8(2.3)	0	14.2	61	117	55.7	0.01	0.01	11.0	0
4	South Coastal LA County 2	70110	077	58	81	0	9(16%)	35.8	349	60.9	36.4	7(2.0)	0	13.7	59	130	61.2	0.01	0.01	13.2	0
6	West San Fernando Valley	70074	074	--	--	--	--	--	113	50.5	26.2	2(1.8)	0	11.9	--	--	--	--	--	--	--
7	East San Fernando Valley	70069	069	54	66	0	7(13%)	35.6	116	57.5	34.6	2(1.7)	0	14.1	--	--	--	--	--	--	--
8	West San Gabriel Valley	70088	088	--	--	--	--	--	118	66.0	32.1	2(1.7)	1(0.9)	12.9	55	108	46.7	--	--	14.1	0
9	East San Gabriel Valley 1	70060	060	49	98	0	13(27%)	35.3	321	53.1	34.8	5(1.6)	0	14.1	59	146	74.9	--	--	18.7	0
9	East San Gabriel Valley 2	70591	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	70075	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	70185	085	--	--	--	--	--	114	47.3	38.0	4(3.5)	0	15.0	57	119	63.2	0.02	0.02	10.1	0
12	South Central LA County+	70084+	084+	--	--	--	--	--	118	44.2	36.5	3(2.5)	0	15.5	51	103	70.4	0.03	0.02	10.6	0
13	Santa Clarita Valley	70090	090	57	91	0	2(4%)	25.8	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>ORANGE COUNTY</b>																					
16	North Orange County	30177	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	Central Orange County	30178	3176	58	61	0	3(5%)	28.6	336	67.9	39.4	13(3.9)	1(0.3)	13.7	--	--	--	--	--	--	--
18	North Coastal Orange County	30195	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	30002	3812	55	42	0	0(0%)	22.6	120	32.6	27.1	0	0	10.4	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																					
22	Norco/Corona	33155	4155	61	86	0	9(15%)	34.4	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	33144	4144	120	115	0	49(41%)	46.6	348	57.7	41.5	14(4.0)	0	16.4	59	222	100.6	0.01	0.01	9.1	0
23	Metropolitan Riverside County 2	33146	4146	--	--	--	--	--	116	43.0	39.1	4(3.4)	0	13.4	63	130	69.4	0.01	0.01	7.1	0
23	Mira Loma	33165	5214	61	135	0	35(57%)	57.4	111	50.9	47.1	10(9.0)	0	18.2	--	--	--	--	--	--	--
24	Perris Valley	33149	4149	45*	85*	0*	12(27%)*	38.3*	--	--	--	--	--	--	--	--	--	--	--	--	--
25	Lake Elsinore	33158	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	Banning Airport	33164	4164	56	51	0	1(2%)	26.1	--	--	--	--	--	--	--	--	--	--	--	--	--
30	Coachella Valley 1**	33137	4137	47*	75*	0*	4(9%)*	23.2*	110	18.1	17.1	0	0	7.2	--	--	--	--	--	--	--
30	Coachella Valley 2**	33157	4157	112	128	0	25(22%)	39.9	113	21.6	18.8	0	0	8.4	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																					
32	Northwest San Bernardino Valley	36175	5175	--	--	--	--	--	--	--	--	--	--	--	54	87	52.2	0.01	0.01	8.4	0
33	Southwest San Bernardino Valley	36025	5817	62	90	0	15(24%)	38.8	113	54.2	45.0	6(5.3)	0	15.8	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	36197	5197	60	75	0	14(23%)	40.3	112	49.0	47.1	6(5.4)	0	15.4	57	139	80	--	--	9.5	0
34	Central San Bernardino Valley 2	36203	5203	60	76	0	19(32%)	42.7	110	43.5	40.1	3(2.7)	0	13.5	59	166	83.6	0.02	0.02	8.6	0
35	East San Bernardino Valley	36204	5204	61	58	0	4(7%)	29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	36181	5181	39*	41*	0*	0(0%)*	23.9*	--	--	--	--	--	--	--	--	--	--	--	--	--
38	East San Bernardino Mountains	36001	5818	--	--	--	--	--	58	36.8	33.3	1(1.7)	0	9.2	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>					135	0	49	57.4		78.3	47.1	14	1	18.2		222	100.6	0.03	0.02	18.7	0
<b>SOUTH COAST AIR BASIN</b>					135	0	68	57.4		78.3	47.1	28	2	18.2		222	100.6	0.03	0.02	18.7	0

µg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data; may not be representative.

\*\* Salton Sea Air Basin.

+ Site was relocated.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 µg/m<sup>3</sup>) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 µg/m<sup>3</sup>.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m<sup>3</sup> to 35 µg/m<sup>3</sup>; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15 µg/m<sup>3</sup>. State standard is annual average (AAM) > 12 µg/m<sup>3</sup>.

l) - Federal lead standard is quarterly average > 1.5 µg/m<sup>3</sup>; and state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. U.S. EPA has established the federal standard of 0.15 µg/m<sup>3</sup>, rolling 3-month average, as of October 15, 2008.

Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webapp/gisaq12/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webapp/gisaq12/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.



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## Appendix C

# Regional Construction Emissions

<b>EMFAC2007 RATES (grams per mile)</b>							
<b>Vehicle Type</b>	<b>ROG</b>	<b>CO</b>	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>PM2.5</b>	<b>CO2</b>
<b>Year 2012</b>							
Haul Truck @ 30 MPH	1.201	6.197	12.247	0.018	0.46	0.423	1878.251
Water Truck @ 5 MPH	12.167	23.797	30.827	0.036	2.004	1.844	3800.207
Worker Vehicle @30 MPH	0.072	1.882	1.118	0.003	0.01	0.009	338.872
Light-Duty Trucks @ 30MPH	0.147	3.133	0.272	0.004	0.013	0.012	422.525
<b>YEAR 2014</b>							
Haul Truck @ 30 MPH	0.976	4.778	9.573	0.018	0.345	0.317	1887.446
Water Truck @ 5 MPH	9.742	18.9	24.244	0.036	1.412	1.299	3809.237
Worker Vehicle @30 MPH	0.055	1.574	0.129	0.003	0.01	0.009	337.447
Light-Duty Trucks @ 30MPH	0.109	2.576	0.222	0.004	0.013	0.012	422.012
<b>YEAR 2016</b>							
Haul Truck @ 30 MPH	0.65	3.70	7.43	0.02	0.97	0.892	1894.53
Water Truck @ 5 MPH	6.60	15.07	18.92	0.04	0.26	0.239	3816.19
Worker Vehicle @30 MPH	0.03	1.34	0.11	0.003	0.01	0.009	421.24
Light-Duty Trucks @ 30MPH	0.06	2.21	0.18	0.003	0.01	0.009	336.11
<b>Year 2018</b>							
Haul Truck @ 30 MPH	0.58	2.98	5.98	0.02	0.20	0.184	1899.62
Water Truck @ 5 MPH	5.52	12.45	15.31	0.04	0.67	0.616	3821.19
Worker Vehicle @30 MPH	0.04	1.73	0.15	0.00	0.01	0.009	420.38
Light-Duty Trucks @ 30MPH	0.02	1.14	0.09	0.00	0.01	0.009	334.89
<b>Assumptions:</b>							
Construction Year	2010-2015						
Season	Annual						
Temperature	63°F						

<b>EQUIPMENT EMISSION FACTORS (pounds per hour)</b>							
<b>YEAR 2012</b>							
	<b>ROG</b>	<b>CO</b>	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>PM2.5</b>	<b>CO2</b>
<i>Construction Equipment</i>	0.1151	0.4293	0.8577	0.0010	0.0468	0.0430	90.8
<b>YEAR 2014</b>							
	<b>ROG</b>	<b>CO</b>	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>PM2.5</b>	<b>CO2</b>
<i>Construction Equipment</i>	0.1011	0.4074	0.7446	0.0010	0.0391	0.0360	90.8
<b>YEAR 2016</b>							
	<b>ROG</b>	<b>CO</b>	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>PM2.5</b>	<b>CO2</b>
<i>Construction Equipment</i>	0.0879	0.3905	0.6271	0.0010	0.0321	0.0295	90.8
<b>Year 2018</b>							
	<b>ROG</b>	<b>CO</b>	<b>NOX</b>	<b>SOX</b>	<b>PM10</b>	<b>PM2.5</b>	<b>CO2</b>
<i>Construction Equipment</i>	0.0765	0.3779	0.5265	0.0010	0.0259	0.0238	90.8

SOURCE: OFFROAD 2007

**Soil Remediation - Unmitigated**

Proposed Project/Action Alternative ~ Construction Emissions

EQUIPMENT		Equipment Emissions (ppd)						
	# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>								
Construction Equipment	10	11.51	42.93	85.77	0.10	4.68	4.30	9,077.16
<b>TOTAL</b>	<b>10</b>	<b>11.51</b>	<b>42.93</b>	<b>85.77</b>	<b>0.10</b>	<b>4.68</b>	<b>4.30</b>	<b>9,077.16</b>
<b>Site Preparation/Infill</b>								
Construction Equipment	10	11.51	42.93	85.77	0.10	4.68	4.30	9,077.16
<b>TOTAL</b>	<b>10</b>	<b>11.51</b>	<b>42.93</b>	<b>85.77</b>	<b>0.10</b>	<b>4.68</b>	<b>4.30</b>	<b>9,077.16</b>

WORKER VEHICLES			Worker Vehicle Emissions (ppd)						
	# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>			<b>0.16</b>	<b>3.71</b>	<b>0.99</b>	<b>0.005</b>	<b>0.017</b>	<b>0.016</b>	<b>560.1</b>
Cars	12.0	319.20	0.05	1.32	0.79	0.00	0.01	0.01	238.26
Trucks	13.0	345.80	0.11	2.39	0.21	0.00	0.01	0.01	321.83
<b>Site Preparation/Infill</b>			<b>0.16</b>	<b>3.71</b>	<b>0.99</b>	<b>0.005</b>	<b>0.017</b>	<b>0.016</b>	<b>560.1</b>
Cars	12.0	319.20	0.05	1.32	0.79	0.00	0.01	0.01	238.26
Trucks	13.0	345.80	0.11	2.39	0.21	0.00	0.01	0.01	321.83

HEAVY-DUTY TRUCK TRIPS				Heavy-duty Truck Emissions (ppd)						
	Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>	150	30	4,500	11.90	61.42	121.39	0.18	4.56	4.19	18,617.03
<b>Site Preparation/Infill</b>	30	20	600	1.59	8.19	16.19	0.02	0.61	0.56	2,482.27

WATER TRUCK USAGE [1]				Heavy-duty Truck Emissions (ppd)						
	# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>	1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.56
<b>Site Preparation/Infill</b>	1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.56

FUGITIVE DUST			
	Max Daily (ft³)	PM10	PM2.5
<b>Soil Removal[2]</b>	81,000	34.02	7.08
	Max Daily Grading (acres)	PM10	PM2.5
<b>Site Preparation [3]</b>	10.00	149.0	31.0

10 acres of soil removed at an 8-foot depth (129,067 cubic yards) over a 2 month period (44 days; approx 3,000 cy/day)  
 150 export trips per day 30.00 import trips/day (@20% of total)  
 20% fill to replace the exported soil (accounts for subterranean parking) – 25,813 cubic yards of import

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Soil Removal</b>	<b>23.98</b>	<b>108.85</b>	<b>209.17</b>	<b>0.28</b>	<b>43.34</b>	<b>15.65</b>	<b>28,379.82</b>	
On-Site	11.91	43.72	86.78	0.10	38.77	11.44	9,202.72	
Off-Site	12.07	65.13	122.38	0.18	4.58	4.21	19,177.11	
<b>Site Preparation/Infill</b>	<b>13.66</b>	<b>55.62</b>	<b>103.96</b>	<b>0.13</b>	<b>154.35</b>	<b>35.93</b>	<b>12,245.07</b>	
On-Site	11.91	43.72	86.78	0.10	153.73	35.35	9,202.72	
Off-Site	1.75	11.90	17.18	0.03	0.62	0.57	3,042.35	
<b>Regional Daily Maximum</b>	<b>38</b>	<b>164</b>	<b>313</b>	<b>0</b>	<b>198</b>	<b>52</b>		
<b>THRESHOLD</b>	<b>75</b>	<b>550</b>	<b>100</b>	<b>150</b>	<b>150</b>	<b>55</b>		
<b>IMPACT?</b>	<b>no</b>	<b>no</b>	<b>yes</b>	<b>no</b>	<b>yes</b>	<b>no</b>		
<b>On-Site TOTAL</b>	<b>24</b>	<b>87</b>	<b>174</b>	<b>0</b>	<b>192</b>	<b>47</b>		
<b>On-Site DUST ONLY</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>183</b>	<b>38</b>		
<b>On-Site EMISSIONS ONLY</b>	<b>24</b>	<b>87</b>	<b>174</b>	<b>0</b>	<b>9</b>	<b>9</b>		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative '1,800 Dwelling Unit Option' assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Assumptions:

Soil Removal and Site Preparation/Infill would at one point overlap, therefore worst case is the sum of both phases.



**Soil Remediation - Mitigated**

Proposed Project/Action Alternative ~ Construction Emissions

EQUIPMENT		Equipment Emissions (ppd)						
	# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>								
Construction Equipment	10	10.93	40.78	81.48	0.09	4.45	4.09	8,623.30
<b>TOTAL</b>	<b>10</b>	<b>10.93</b>	<b>40.78</b>	<b>81.48</b>	<b>0.09</b>	<b>4.45</b>	<b>4.09</b>	<b>8,623.30</b>
<b>Site Preparation/Infill</b>								
Construction Equipment	10	10.93	40.78	81.48	0.09	4.45	4.09	8,623.30
<b>TOTAL</b>	<b>10</b>	<b>10.93</b>	<b>40.78</b>	<b>81.48</b>	<b>0.09</b>	<b>4.45</b>	<b>4.09</b>	<b>8,623.30</b>

WORKER VEHICLES			Worker Vehicle Emissions (ppd)						
	# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>			<b>0.16</b>	<b>3.71</b>	<b>0.99</b>	<b>0.005</b>	<b>0.017</b>	<b>0.016</b>	<b>560.1</b>
Cars	12.0	319.20	0.05	1.32	0.79	0.00	0.01	0.01	238.26
Trucks	13.0	345.80	0.11	2.39	0.21	0.00	0.01	0.01	321.83
<b>Site Preparation/Infill</b>			<b>0.16</b>	<b>3.71</b>	<b>0.99</b>	<b>0.005</b>	<b>0.017</b>	<b>0.016</b>	<b>560.1</b>
Cars	12.0	319.20	0.05	1.32	0.79	0.00	0.01	0.01	238.26
Trucks	13.0	345.80	0.11	2.39	0.21	0.00	0.01	0.01	321.83

HEAVY-DUTY TRUCK TRIPS				Heavy-duty Truck Emissions (ppd)						
	Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>	150	30	4,500	11.90	61.42	121.39	0.18	4.56	4.19	18,617.03
<b>Site Preparation/Infill</b>	30	20	600	1.59	8.19	16.19	0.02	0.61	0.56	2,482.27

WATER TRUCK USAGE [1]				Heavy-duty Truck Emissions (ppd)						
	# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Soil Removal</b>	1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.56
<b>Site Preparation/Infill</b>	1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.56

FUGITIVE DUST			
	Max Daily (ft³)	PM10	PM2.5
<b>Soil Removal[2]</b>	81,000	34.02	7.08
	Max Daily Grading (acres)	PM10	PM2.5
<b>Site Preparation [3]</b>	10.00	149.0	31.0

10 acres of soil removed at an 8-foot depth (129,067 cubic yards) over a 2 month period (44 days; approx 3,000 cy/day)  
 150 export trips per day 30.00 import trips/day (@20% of total)  
 20% fill to replace the exported soil (accounts for subterranean parking) – 25,813 cubic yards of import

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Soil Removal</b>	<b>23.40</b>	<b>106.70</b>	<b>204.88</b>	<b>0.28</b>	<b>43.11</b>	<b>15.44</b>	<b>27,925.97</b>	
On-Site	11.33	41.57	82.50	0.10	38.53	11.23	8,748.86	
Off-Site	12.07	65.13	122.38	0.18	4.58	4.21	19,177.11	
<b>Site Preparation/Infill</b>	<b>13.08</b>	<b>53.47</b>	<b>99.67</b>	<b>0.12</b>	<b>154.12</b>	<b>35.71</b>	<b>11,791.21</b>	
On-Site	11.33	41.57	82.50	0.10	153.49	35.14	8,748.86	
Off-Site	1.75	11.90	17.18	0.03	0.62	0.57	3,042.35	
<b>Regional Daily Maximum</b>	<b>36</b>	<b>160</b>	<b>305</b>	<b>0</b>	<b>197</b>	<b>51</b>		
<b>THRESHOLD</b>	<b>75</b>	<b>550</b>	<b>100</b>	<b>150</b>	<b>150</b>	<b>55</b>		
<b>IMPACT?</b>	<b>no</b>	<b>no</b>	<b>yes</b>	<b>no</b>	<b>yes</b>	<b>no</b>		
<b>On-Site TOTAL</b>	<b>23</b>	<b>83</b>	<b>165</b>	<b>0</b>	<b>192</b>	<b>46</b>		
<b>On-Site DUST ONLY</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>183</b>	<b>38</b>		
<b>On-Site EMISSIONS ONLY</b>	<b>23</b>	<b>83</b>	<b>165</b>	<b>0</b>	<b>9</b>	<b>8</b>		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative '1,800 Dwelling Unit Option' assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Assumptions:

Soil Removal and Site Preparation/Infill would at one point overlap, therefore worst case is the sum of both phases.

Phase 1 – Unmitigated

Proposed Project/Action Alternative – Construction Emissions

EQUIPMENT		Equipment Emissions (ppd)						
# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
Construction Equipment	20	23.01	85.86	171.53	0.20	9.36	8.61	18,154.32
<b>TOTAL</b>	<b>20</b>	<b>23.01</b>	<b>85.86</b>	<b>171.53</b>	<b>0.20</b>	<b>9.36</b>	<b>8.61</b>	<b>18,154.32</b>
<b>Site Preparation</b>								
Construction Equipment	20	23.01	85.86	171.53	0.20	9.36	8.61	18,154.32
<b>TOTAL</b>	<b>20</b>	<b>23.01</b>	<b>85.86</b>	<b>171.53</b>	<b>0.20</b>	<b>9.36</b>	<b>8.61</b>	<b>18,154.32</b>
<b>Infrastructure</b>								
Construction Equipment	20	23.01	85.86	171.53	0.20	9.36	8.61	18,154.32
<b>TOTAL</b>	<b>20</b>	<b>23.01</b>	<b>85.86</b>	<b>171.53</b>	<b>0.20</b>	<b>9.36</b>	<b>8.61</b>	<b>18,154.32</b>
<b>Structures and Paving</b>								
Construction Equipment	20	23.01	85.86	171.53	0.20	9.36	8.61	18,154.32
<b>TOTAL</b>	<b>20</b>	<b>23.01</b>	<b>85.86</b>	<b>171.53</b>	<b>0.20</b>	<b>9.36</b>	<b>8.61</b>	<b>18,154.32</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)								
# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2		
<b>Demolition</b>										
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3		
Cars	25.0	665.00	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	665.00	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Site Preparation</b>										
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3		
Cars	25.0	665.00	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	665.00	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Infrastructure</b>										
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3		
Cars	25.0	665.00	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	665.00	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Structures and Paving</b>										
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3		
Cars	25.0	665.00	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	665.00	0.22	4.59	0.40	0.01	0.02	0.02	618.90	

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)									
Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2		
<b>Demolition</b>											
50	30	1,500	3.97	20.47	40.46	0.06	1.52	1.40	6,205.68		
<b>Site Preparation</b>											
50	20	1,000	2.65	13.65	26.98	0.04	1.01	0.93	4,137.12		
<b>Infrastructure</b>											
20	20	400	1.06	5.46	10.79	0.02	0.41	0.37	1,654.89		
<b>Structures and Paving</b>											
20	20	400	1.06	5.46	10.79	0.02	0.41	0.37	1,654.89		

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)								
# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	
<b>Site Preparation</b>										
1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.56	
<b>Infrastructure</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	
<b>Structures and Paving</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	

FUGITIVE DUST		PM10			PM2.5		
Max Daily Demo (ft²)	PM10	PM2.5					
<b>Demolition [2]</b>							
14,108	5.93	1.23	calc up	402,930.00	217,800.00	702,410.00	
<b>Site Preparation [3]</b>							
6.33	94.3	19.6	623,344.00	347,160.00	479,160.00	25.31	

ARCHITECTURAL COATING [4]		Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
<b>Residential</b>							
1	429,832	870,409.80	290,136.60	0.012	610.83		
<b>Non-Residential</b>							
1	210,000	315,000	105,000	0.012	221.06		
<b>TOTAL</b>							<b>831.88</b>

Asphalt Paving [5]		Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)
<b>Paving</b>						
5.024081726	1	5.024081726	2.62	13.16		

TOTAL EMISSIONS		Emissions (ppd)						
ROG	CO	NOX	SOX	PM10	PM2.5	CO2		
<b>Demolition</b>								
27.44	113.95	214.37	0.27	16.86	11.29	25,517.15		
On-Site	23.15	86.12	171.87	0.20	15.31	9.86		
Off-Site	4.29	27.82	42.50	0.07	1.55	7,320.94		
<b>Site Preparation</b>								
26.38	107.54	201.56	0.25	104.74	29.24	23,530.26		
On-Site	23.41	86.65	172.55	0.20	103.69	28.28		
Off-Site	2.97	21.00	29.01	0.05	1.05	5,252.38		
<b>Infrastructure</b>								
24.53	98.93	184.70	0.22	9.82	9.03	20,956.28		
On-Site	23.15	86.12	171.87	0.20	9.36	18,196.17		
Off-Site	1.38	12.81	12.83	0.03	0.46	2,770.11		
<b>Structures and Paving</b>								
856.41	98.93	184.70	0.22	9.82	9.03	20,956.28		
On-Site	855.03	86.12	171.87	0.20	9.36	18,196.17		
Off-Site	1.38	12.81	12.83	0.03	0.46	2,770.11		
<b>Regional Daily Maximum THRESHOLD</b>								
856	114	214	0	105	29			
75	50	100	150	150	55			
<b>IMPACT:</b>								
yes	no	yes	no	no	no			
868	87	173	0	104	28			
<b>On-Site DUST ONLY</b>								
868	87	173	0	94	20			
<b>On-Site EMISSIONS ONLY</b>								
868	87	173	0	94	20			

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.  
 [2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00942 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.  
 [3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.  
 [4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative '1,800 Dwelling Unit Option' assumptions for residential square footage.  
 [5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 1 – Mitigated

EQUIPMENT		Equipment Emissions (ppd)						
# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
Construction Equipment	20	21.86	81.57	162.95	0.19	8.89	8.18	17,246.60
<b>TOTAL</b>	<b>20</b>	<b>21.86</b>	<b>81.57</b>	<b>162.95</b>	<b>0.19</b>	<b>8.89</b>	<b>8.18</b>	<b>17,246.60</b>
<b>Site Preparation</b>								
Construction Equipment	20	21.86	81.57	162.95	0.19	8.89	8.18	17,246.60
<b>TOTAL</b>	<b>20</b>	<b>21.86</b>	<b>81.57</b>	<b>162.95</b>	<b>0.19</b>	<b>8.89</b>	<b>8.18</b>	<b>17,246.60</b>
<b>Infrastructure</b>								
Construction Equipment	20	21.86	81.57	162.95	0.19	8.89	8.18	17,246.60
<b>TOTAL</b>	<b>20</b>	<b>21.86</b>	<b>81.57</b>	<b>162.95</b>	<b>0.19</b>	<b>8.89</b>	<b>8.18</b>	<b>17,246.60</b>
<b>Structures and Paving</b>								
Construction Equipment	20	21.86	81.57	162.95	0.19	8.89	8.18	17,246.60
<b>TOTAL</b>	<b>20</b>	<b>21.86</b>	<b>81.57</b>	<b>162.95</b>	<b>0.19</b>	<b>8.89</b>	<b>8.18</b>	<b>17,246.60</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)							
# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>									
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3	
Cars	25.0	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Site Preparation</b>									
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3	
Cars	25.0	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Infrastructure</b>									
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3	
Cars	25.0	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	0.22	4.59	0.40	0.01	0.02	0.02	618.90	
<b>Structures and Paving</b>									
50	1,330.00	0.32	7.35	2.04	0.010	0.034	0.031	1,115.3	
Cars	25.0	0.11	2.76	1.64	0.00	0.01	0.01	496.37	
Trucks	25.0	0.22	4.59	0.40	0.01	0.02	0.02	618.90	

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)								
Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>										
50	30	1,500	3.97	20.47	40.46	0.06	1.52	1.40	6,205.68	
<b>Site Preparation</b>										
50	20	1,000	2.65	13.65	26.98	0.04	1.01	0.93	4,137.12	
<b>Infrastructure</b>										
20	400	1.06	5.46	10.79	0.02	0.41	0.37	1,654.85		
<b>Structures and Paving</b>										
20	20	400	1.06	5.46	10.79	0.02	0.41	0.37	1,654.85	

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)								
# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	
<b>Site Preparation</b>										
1	3.00	15.00	0.40	0.79	1.02	0.00	0.07	0.06	125.96	
<b>Infrastructure</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	
<b>Structures and Paving</b>										
1	1.00	5.00	0.13	0.26	0.34	0.00	0.02	0.02	41.85	

FUGITIVE DUST		Heavy-duty Truck Emissions (ppd)		
Max Daily Demo (ft <sup>3</sup> )	PM10	PM2.5	CO2	
Demolition [2]	14,108	5.93	1.23	
Max Daily Grading (acres)	PM10	PM2.5		
Site Preparation [3]	6.33	94.3	19.6	

calc up  
 402,930.00 cf of structures      217,800.00 cf of paving      702,410.00 cf of protected scho  
 623,344.00 sf of residential/comm areas      479,160.00 sf of public area      25.31

ARCHITECTURAL COATING [4]		Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
<b>Residential</b>							
1	429	8,32	870,409.80	290,136.60	0.00046	24.43	
<b>Non-Residential</b>							
1	210	050	315,000	105,000	0.00046	8.84	
<b>TOTAL</b>							<b>33.28</b>

Asphalt Paving [5]		Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)
<b>Paving</b>						
5.024081726	1	5.024081726	2.62	13.16		

TOTAL EMISSIONS		Emissions (ppd)						
ROG	CO	NOX	SOX	PM10	PM2.5	CO2		
<b>Demolition</b>								
26.29	109.65	205.79	0.26	16.39	10.86	24,609.39		
On-Site	22.00	81.83	163.29	0.19	14.84	9.43	17,288.46	
Off-Site	4.29	27.82	42.50	0.07	1.55	7.43	7,320.94	
<b>Site Preparation</b>								
25.23	102.95	192.99	0.24	10.27	7.91	22,624.54		
On-Site	22.26	82.36	163.97	0.19	103.22	27.85	17,372.16	
Off-Site	2.97	21.00	29.01	0.05	0.96	5,252.38		
<b>Infrastructure</b>								
23.38	94.64	176.12	0.21	9.35	6.60	20,058.56		
On-Site	22.00	81.83	163.29	0.19	8.91	8.20	17,288.46	
Off-Site	1.38	12.81	12.83	0.03	0.44	2,770.11		
<b>Structures and Paving</b>								
56.65	94.64	176.12	0.21	9.35	6.60	20,058.56		
On-Site	55.27	81.83	163.29	0.19	8.91	8.20	17,288.46	
Off-Site	1.38	12.81	12.83	0.03	0.44	2,770.11		
<b>Regional Daily Maximum</b>								
57	110	206	0	104	29			
<b>THRESHOLD</b>								
75	150	100	150	150	50			
<b>IMPACT?</b>								
no	no	yes	no	no	no			
<b>On-Site TOTAL</b>								
68	82	164	0	103	28			
<b>On-Site DUST ONLY</b>								
68	82	164	0	94	20			
<b>On-Site EMISSIONS ONLY</b>								
68	82	164	0	94	20			

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.  
 [2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.  
 [3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.  
 [4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.  
 [5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 2 – Unmitigated

Proposed Project/Action Alternative – Construction Emissions

EQUIPMENT		Equipment Emissions (ppd)						
# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
Construction Equipment	20	20.22	81.48	148.91	0.20	7.83	7.20	18,153.51
<b>TOTAL</b>	<b>20</b>	<b>20.22</b>	<b>81.48</b>	<b>148.91</b>	<b>0.20</b>	<b>7.83</b>	<b>7.20</b>	<b>18,153.51</b>
<b>Site Preparation</b>								
Construction Equipment	20	20.22	81.48	148.91	0.20	7.83	7.20	18,153.51
<b>TOTAL</b>	<b>20</b>	<b>20.22</b>	<b>81.48</b>	<b>148.91</b>	<b>0.20</b>	<b>7.83</b>	<b>7.20</b>	<b>18,153.51</b>
<b>Infrastructure</b>								
Construction Equipment	20	20.22	81.48	148.91	0.20	7.83	7.20	18,153.51
<b>TOTAL</b>	<b>20</b>	<b>20.22</b>	<b>81.48</b>	<b>148.91</b>	<b>0.20</b>	<b>7.83</b>	<b>7.20</b>	<b>18,153.51</b>
<b>Structures and Paving</b>								
Construction Equipment	20	20.22	81.48	148.91	0.20	7.83	7.20	18,153.51
<b>TOTAL</b>	<b>20</b>	<b>20.22</b>	<b>81.48</b>	<b>148.91</b>	<b>0.20</b>	<b>7.83</b>	<b>7.20</b>	<b>18,153.51</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)						
# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>								
50	1,330.00	0.24	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.09	2.31	0.19	0.00	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	618.15
<b>Site Preparation</b>								
50	1,330.00	0.24	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.09	2.31	0.19	0.00	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	618.15
<b>Infrastructure</b>								
50	1,330.00	0.24	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.09	2.31	0.19	0.00	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	618.15
<b>Structures and Paving</b>								
50	1,330.00	0.24	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.09	2.31	0.19	0.00	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	618.15

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)							
Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
50	30	1,500	3.22	15.79	31.63	0.06	1.14	1.05	6,236.06
<b>Site Preparation</b>									
50	20	1,000	2.15	10.52	21.09	0.04	0.76	0.70	4,157.37
<b>Infrastructure</b>									
20	20	400	0.86	4.21	8.43	0.02	0.30	0.28	1,662.95
<b>Structures and Paving</b>									
20	20	400	0.86	4.21	8.43	0.02	0.30	0.28	1,662.95

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)							
# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95
<b>Site Preparation</b>									
1	3.00	15.00	0.32	0.62	0.80	0.00	0.05	0.04	125.86
<b>Infrastructure</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95
<b>Structures and Paving</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95

FUGITIVE DUST		calc up		
Max Daily Demo (ft <sup>2</sup> )	PM10	PM2.5		
Demolition [2]	38,758	15.44	3.21	
Max Daily Grading (acres)	PM10	PM2.5		
Site Preparation [3]	4.58	68.2	14.2	

748,750.00 cf of structures      166,205.50 cf of paving      702,410.00 cf of protected school structures

344,124.00 sf of residential/comm areas      453,024.00 sf of public area      18.30 total acres

ARCHITECTURAL COATING [4]						
Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)	
Residential	1	491,470	995,226.75	331,742.25	0.012	698.42
Non-Residential	1	20,050	30,000	10,000	0.012	21.05
<b>TOTAL</b>					<b>719.47</b>	

Asphalt Paving [5]					
Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)	
Paving	2,812,213,039	1	2,812,213,039	2.62	7.37

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
On-Site	23.79	103.55	181.32	0.27	24.45	11.51	25,543.94	
Off-Site	20.33	81.69	149.18	0.20	23.28	10.43	18,195.46	
On-Site	3.46	21.87	32.14	0.07	1.17	1.08	7,348.48	
<b>Site Preparation</b>								
On-Site	22.99	98.71	171.31	0.25	76.82	27.15	23,549.16	
Off-Site	20.54	82.10	149.71	0.20	76.03	21.42	18,279.36	
On-Site	2.39	16.60	21.60	0.05	0.79	0.73	5,269.79	
<b>Infrastructure</b>								
On-Site	21.43	91.98	158.13	0.22	8.18	7.53	20,970.83	
Off-Site	20.33	81.69	149.18	0.20	7.84	7.21	18,195.46	
On-Site	1.10	10.29	8.95	0.03	0.34	0.31	2,775.37	
<b>Structures and Paving</b>								
On-Site	740.90	91.98	158.13	0.22	8.18	7.53	20,970.83	
Off-Site	739.80	81.69	149.18	0.20	7.84	7.21	18,195.46	
On-Site	1.10	10.29	8.95	0.03	0.34	0.31	2,775.37	
<b>Regional Daily Maximum</b>								
	741	104	181	0	77	22		
<b>THRESHOLD IMPACT?</b>								
	75	500	100	150	150	50		
	yes	no	yes	no	no	no		
<b>On-Site TOTAL</b>								
	747	82	150	0	76	21		
<b>On-Site DUST ONLY</b>								
	747	82	150	0	68	14		
<b>On-Site EMISSIONS ONLY</b>								
	747	82	150	0	68	7		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.0042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 2 – Mitigated

EQUIPMENT		Equipment Emissions (ppd)						
# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
Construction Equipment	20	19.21	77.40	141.47	0.19	7.44	6.84	17,245.83
<b>TOTAL</b>	<b>20</b>	<b>19.21</b>	<b>77.40</b>	<b>141.47</b>	<b>0.19</b>	<b>7.44</b>	<b>6.84</b>	<b>17,245.83</b>
<b>Site Preparation</b>								
Construction Equipment	20	19.21	77.40	141.47	0.19	7.44	6.84	17,245.83
<b>TOTAL</b>	<b>20</b>	<b>19.21</b>	<b>77.40</b>	<b>141.47</b>	<b>0.19</b>	<b>7.44</b>	<b>6.84</b>	<b>17,245.83</b>
<b>Infrastructure</b>								
Construction Equipment	20	19.21	77.40	141.47	0.19	7.44	6.84	17,245.83
<b>TOTAL</b>	<b>20</b>	<b>19.21</b>	<b>77.40</b>	<b>141.47</b>	<b>0.19</b>	<b>7.44</b>	<b>6.84</b>	<b>17,245.83</b>
<b>Structures and Paving</b>								
Construction Equipment	20	19.21	77.40	141.47	0.19	7.44	6.84	17,245.83
<b>TOTAL</b>	<b>20</b>	<b>19.21</b>	<b>77.40</b>	<b>141.47</b>	<b>0.19</b>	<b>7.44</b>	<b>6.84</b>	<b>17,245.83</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)							
# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>									
50	1,330.00	0.24	6.08	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.08	2.31	0.19	0.00	0.01	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	0.02	618.15
<b>Site Preparation</b>									
50	1,330.00	0.24	6.08	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.08	2.31	0.19	0.00	0.01	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	0.02	618.15
<b>Infrastructure</b>									
50	1,330.00	0.24	6.08	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.08	2.31	0.19	0.00	0.01	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	0.02	618.15
<b>Structures and Paving</b>									
50	1,330.00	0.24	6.08	6.08	0.51	0.010	0.034	0.031	1,112.4
Cars	25.0	665.00	0.08	2.31	0.19	0.00	0.01	0.01	494.28
Trucks	25.0	665.00	0.16	3.77	0.33	0.01	0.02	0.02	618.15

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)							
Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
50	30	1,500	3.22	15.79	31.63	0.06	1.14	1.05	6,236.06
<b>Site Preparation</b>									
50	20	1,000	2.15	10.52	21.09	0.04	0.76	0.70	4,157.37
<b>Infrastructure</b>									
20	20	400	0.86	4.21	8.43	0.02	0.30	0.28	1,662.95
<b>Structures and Paving</b>									
20	20	400	0.86	4.21	8.43	0.02	0.30	0.28	1,662.95

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)							
# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95
<b>Site Preparation</b>									
1	3.00	15.00	0.32	0.62	0.80	0.00	0.05	0.04	125.86
<b>Infrastructure</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95
<b>Structures and Paving</b>									
1	1.00	5.00	0.11	0.21	0.27	0.00	0.02	0.01	41.95

FUGITIVE DUST		calc up		
Max Daily Demo (ft³)	PM10	PM2.5		
Demolition [2]	36,758	15.44	3.21	
Max Daily Grading (acres)	PM10	PM2.5		
Site Preparation [3]	4.58	68.2	14.2	

748,750.00 cf of structures      166,205.50 cf of paving      702,410.00 cf of protected school structures

344,124.00 sf of residential/comm areas      453,024.00 sf of public area      18.30 total acres

ARCHITECTURAL COATING [4]						
Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)	
Residential	1	491,470	995,226.75	331,742.25	0.00046	27.94
Non-Residential	1	20,000	30,000	10,000	0.00046	0.84
<b>TOTAL</b>					<b>28.78</b>	

Asphalt Paving [5]					
Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)	
Paving	2.812219039	1	2.812213039	2.62	7.37

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
	22.78	99.48	173.88	0.26	24.06	11.15	24,636.26	
On-Site	19.32	77.61	141.73	0.19	22.89	10.07	17,287.79	
Off-Site	3.46	21.87	32.14	0.07	1.17	1.08	7,348.48	
<b>Site Preparation</b>								
	21.92	94.53	163.87	0.24	21.79	10.43	22,581.46	
On-Site	19.53	78.03	142.27	0.19	20.64	10.06	17,371.69	
Off-Site	2.39	16.60	21.60	0.05	1.15	0.37	5,209.77	
<b>Infrastructure</b>								
	20.42	87.90	150.68	0.21	21.79	10.43	22,581.46	
On-Site	19.32	77.61	141.73	0.19	22.89	10.07	17,287.79	
Off-Site	1.10	10.29	8.95	0.02	0.90	0.36	2,293.67	
<b>Structures and Paving</b>								
	49.20	87.90	150.68	0.21	21.79	10.43	22,581.46	
On-Site	48.10	77.61	141.73	0.19	22.89	10.07	17,287.79	
Off-Site	1.10	10.29	8.95	0.02	0.90	0.36	2,293.67	
<b>Regional Daily Maximum THRESHOLD</b>								
	49	87	174	0	76	22		
	75	590	100	150	150	55		
IMPACT:	no	no	yes	no	no	no		
<b>On-Site TOTAL</b>	<b>55</b>	<b>78</b>	<b>142</b>	<b>0</b>	<b>76</b>	<b>21</b>		
<b>On-Site DUST ONLY</b>	<b>55</b>	<b>78</b>	<b>142</b>	<b>0</b>	<b>68</b>	<b>14</b>		
<b>On-Site EMISSIONS ONLY</b>	<b>55</b>	<b>78</b>	<b>142</b>	<b>0</b>	<b>7</b>	<b>7</b>		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.  
 [2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.  
 [3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.  
 [4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative '1,800 Dwelling Unit Option' assumptions for residential square footage.  
 [5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 3 – Unmitigated

Proposed Project/Action Alternative – Construction Emissions

EQUIPMENT		Equipment Emissions (ppd)						
	# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>								
Construction Equipment	20	17.59	78.09	125.41	0.20	6.41	5.90	18,152.71
<b>TOTAL</b>	<b>20</b>	<b>17.59</b>	<b>78.09</b>	<b>125.41</b>	<b>0.20</b>	<b>6.41</b>	<b>5.90</b>	<b>18,152.71</b>
<b>Site Preparation</b>								
Construction Equipment	20	17.59	78.09	125.41	0.20	6.41	5.90	18,152.71
<b>TOTAL</b>	<b>20</b>	<b>17.59</b>	<b>78.09</b>	<b>125.41</b>	<b>0.20</b>	<b>6.41</b>	<b>5.90</b>	<b>18,152.71</b>
<b>Infrastructure</b>								
Construction Equipment	20	17.59	78.09	125.41	0.20	6.41	5.90	18,152.71
<b>TOTAL</b>	<b>20</b>	<b>17.59</b>	<b>78.09</b>	<b>125.41</b>	<b>0.20</b>	<b>6.41</b>	<b>5.90</b>	<b>18,152.71</b>
<b>Structures and Paving</b>								
Construction Equipment	20	17.59	78.09	125.41	0.20	6.41	5.90	18,152.71
<b>TOTAL</b>	<b>20</b>	<b>17.59</b>	<b>78.09</b>	<b>125.41</b>	<b>0.20</b>	<b>6.41</b>	<b>5.90</b>	<b>18,152.71</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)							
	# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
	50	1,330.00	0.13	5.20	0.42	0.009	0.029	0.027	1,109.3
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01
Trucks	25.0	665.00	0.09	3.24	0.26	0.009	0.019	0.017	492.32
<b>Site Preparation</b>									
	50	1,330.00	0.13	5.20	0.42	0.009	0.029	0.027	1,109.3
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01
Trucks	25.0	665.00	0.09	3.24	0.26	0.009	0.019	0.017	492.32
<b>Infrastructure</b>									
	50	1,330.00	0.13	5.20	0.42	0.009	0.029	0.027	1,109.3
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01
Trucks	25.0	665.00	0.09	3.24	0.26	0.009	0.019	0.017	492.32
<b>Structures and Paving</b>									
	50	1,330.00	0.13	5.20	0.42	0.009	0.029	0.027	1,109.3
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01
Trucks	25.0	665.00	0.09	3.24	0.26	0.009	0.019	0.017	492.32

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)									
	Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>											
	50	30	1,500	2.15	12.22	24.55	0.07	3.20	2.95	6,258.46	
<b>Site Preparation</b>											
	50	20	1,000	1.43	8.15	16.37	0.04	2.14	1.97	4,172.97	
<b>Infrastructure</b>											
	20	400	0.57	3.26	6.55	0.02	0.85	0.79	1,669.19		
<b>Structures and Paving</b>											
	20	20	400	0.57	3.26	6.55	0.02	0.85	0.79	1,669.19	

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)									
	# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>											
	1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03	
<b>Site Preparation</b>											
	1	3.00	15.00	0.22	0.50	0.63	0.00	0.01	0.01	126.09	
<b>Infrastructure</b>											
	1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03	
<b>Structures and Paving</b>											
	1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03	

FUGITIVE DUST		Heavy-duty Truck Emissions (ppd)		
	Max Daily Demo (ft <sup>2</sup> )	PM10	PM2.5	calc up
<b>Demolition [2]</b>				
	28,181	11.00	2.29	327,625.00 cf of structures 121,921.75 cf of paving 702,410.00 cf of protected school structures
<b>Site Preparation [3]</b>				
	2.70	40.2	8.4	409,464.00 sf of residential/comm areas 60,984.00 sf of public area 10.80 total acres

ARCHITECTURAL COATING [4]		Emissions (ppd)				
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
<b>Residential</b>						
	1	473,553	958,944.83	319,648.28	0.012	672.96
<b>Non-Residential</b>						
	1	-	-	-	0.012	-
<b>TOTAL</b>						<b>672.96</b>

Asphalt Paving [5]		Emissions (ppd)			
	Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)
<b>Paving</b>					
	2.812213039	1	2.812213039	2.62	7.37

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
On-Site	19.94	95.68	150.59	0.27	20.64	11.16	25,563.54	
Off-Site	17.66	78.26	125.62	0.20	17.41	8.19	18,194.74	
<b>On-Site TOTAL</b>	<b>2.28</b>	<b>17.42</b>	<b>24.97</b>	<b>0.07</b>	<b>3.23</b>	<b>2.96</b>	<b>7,368.79</b>	
<b>Site Preparation</b>								
On-Site	19.37	91.94	142.83	0.26	48.81	16.27	23,541.18	
Off-Site	17.81	78.59	126.04	0.20	46.64	14.27	18,278.80	
<b>On-Site TOTAL</b>	<b>1.56</b>	<b>13.35</b>	<b>16.79</b>	<b>0.05</b>	<b>2.17</b>	<b>1.99</b>	<b>5,282.31</b>	
<b>Infrastructure</b>								
On-Site	19.37	86.72	132.59	0.23	7.30	6.71	20,973.27	
Off-Site	17.66	78.26	125.62	0.20	6.41	5.90	18,194.74	
<b>On-Site TOTAL</b>	<b>0.70</b>	<b>8.46</b>	<b>6.97</b>	<b>0.03</b>	<b>0.89</b>	<b>0.81</b>	<b>2,778.52</b>	
<b>Structures and Paving</b>								
On-Site	691.32	86.72	132.59	0.23	7.30	6.71	20,973.27	
Off-Site	690.62	78.26	125.62	0.20	6.41	5.90	18,194.74	
<b>On-Site TOTAL</b>	<b>0.70</b>	<b>8.46</b>	<b>6.97</b>	<b>0.03</b>	<b>0.88</b>	<b>0.81</b>	<b>2,778.52</b>	
<b>Regional Daily Maximum</b>								
	691	96	151	0	49	16		
<b>THRESHOLD IMPACT?</b>								
	75	500	100	150	150	50		
	yes	no	yes	no	no	no		
<b>On-Site TOTAL</b>								
	698	79	126	0	47	14		
<b>On-Site DUST ONLY</b>								
	698	79	126	0	40	8		
<b>On-Site EMISSIONS ONLY</b>								
	698	79	126	0	79	8		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.0042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 3 – Mitigated

EQUIPMENT		Equipment Emissions (ppd)						
	# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>								
Construction Equipment	20	16.71	74.19	119.14	0.19	6.09	5.60	17,245.08
<b>TOTAL</b>	<b>20</b>	<b>16.71</b>	<b>74.19</b>	<b>119.14</b>	<b>0.19</b>	<b>6.09</b>	<b>5.60</b>	<b>17,245.08</b>
<b>Site Preparation</b>								
Construction Equipment	20	16.71	74.19	119.14	0.19	6.09	5.60	17,245.08
<b>TOTAL</b>	<b>20</b>	<b>16.71</b>	<b>74.19</b>	<b>119.14</b>	<b>0.19</b>	<b>6.09</b>	<b>5.60</b>	<b>17,245.08</b>
<b>Infrastructure</b>								
Construction Equipment	20	16.71	74.19	119.14	0.19	6.09	5.60	17,245.08
<b>TOTAL</b>	<b>20</b>	<b>16.71</b>	<b>74.19</b>	<b>119.14</b>	<b>0.19</b>	<b>6.09</b>	<b>5.60</b>	<b>17,245.08</b>
<b>Structures and Paving</b>								
Construction Equipment	20	16.71	74.19	119.14	0.19	6.09	5.60	17,245.08
<b>TOTAL</b>	<b>20</b>	<b>16.71</b>	<b>74.19</b>	<b>119.14</b>	<b>0.19</b>	<b>6.09</b>	<b>5.60</b>	<b>17,245.08</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)								
	# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>		<b>50</b>	<b>1,330.00</b>	<b>0.13</b>	<b>5.20</b>	<b>0.42</b>	<b>0.009</b>	<b>0.029</b>	<b>0.027</b>	<b>1,109.3</b>
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01	
Trucks	25.0	665.00	0.09	3.24	0.26	0.00	0.01	0.01	492.32	
<b>Site Preparation</b>		<b>50</b>	<b>1,330.00</b>	<b>0.13</b>	<b>5.20</b>	<b>0.42</b>	<b>0.009</b>	<b>0.029</b>	<b>0.027</b>	<b>1,109.3</b>
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01	
Trucks	25.0	665.00	0.09	3.24	0.26	0.00	0.01	0.01	492.32	
<b>Infrastructure</b>		<b>50</b>	<b>1,330.00</b>	<b>0.13</b>	<b>5.20</b>	<b>0.42</b>	<b>0.009</b>	<b>0.029</b>	<b>0.027</b>	<b>1,109.3</b>
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01	
Trucks	25.0	665.00	0.09	3.24	0.26	0.00	0.01	0.01	492.32	
<b>Structures and Paving</b>		<b>50</b>	<b>1,330.00</b>	<b>0.13</b>	<b>5.20</b>	<b>0.42</b>	<b>0.009</b>	<b>0.029</b>	<b>0.027</b>	<b>1,109.3</b>
Cars	25.0	665.00	0.04	1.96	0.16	0.00	0.01	0.01	617.01	
Trucks	25.0	665.00	0.09	3.24	0.26	0.00	0.01	0.01	492.32	

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)									
	Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>		50	30	1,500	2.15	12.22	24.55	0.07	3.20	2.95	6,258.46
<b>Site Preparation</b>		50	20	1,000	1.43	8.15	16.37	0.04	2.14	1.97	4,172.97
<b>Infrastructure</b>		20	400	400	0.57	3.26	6.55	0.02	0.85	0.79	1,669.19
<b>Structures and Paving</b>		20	20	400	0.57	3.26	6.55	0.02	0.85	0.79	1,669.19

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)									
	# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>		1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03
<b>Site Preparation</b>		1	3.00	15.00	0.22	0.50	0.63	0.00	0.01	0.01	126.09
<b>Infrastructure</b>		1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03
<b>Structures and Paving</b>		1	1.00	5.00	0.07	0.17	0.21	0.00	0.00	0.00	42.03

FUGITIVE DUST		Max Daily Demo (ft <sup>2</sup> )			Max Daily Grading (acres)		
		PM10	PM2.5		PM10	PM2.5	
<b>Demolition [2]</b>		28,181	11.00	2.29			
<b>Site Preparation [3]</b>		2.70	40.2	8.4			

calc up

327,625.00 sf of structures      121,921.75 cf of paving      702,410.00 cf of protected school structures

409,464.00 sf of residential/comm areas      60,984.00 sf of public area      10.80 total acres

ARCHITECTURAL COATING [4]		Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
<b>Residential</b>		1	473,553	958,944.83	319,648.28	0.00046	26.92
<b>Non-Residential</b>		1	-	-	-	0.00046	-
<b>TOTAL</b>							<b>26.92</b>

Asphalt Paving [5]		Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)
<b>Paving</b>		2.812213039	1	2.812213039	2.62	7.37

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>		<b>19.06</b>	<b>91.78</b>	<b>144.32</b>	<b>0.26</b>	<b>20.32</b>	<b>10.87</b>	<b>24,655.90</b>
On-Site	16.78	74.35	119.35	0.19	17.09	7.89	17,287.11	
Off-Site	2.28	17.42	24.97	0.07	3.23	2.98	7,368.79	
<b>Site Preparation</b>		<b>19.40</b>	<b>88.93</b>	<b>136.56</b>	<b>0.24</b>	<b>18.49</b>	<b>9.07</b>	<b>22,653.49</b>
On-Site	16.93	74.68	119.77	0.19	16.32	13.98	17,371.16	
Off-Site	1.56	13.35	16.79	0.05	2.17	1.99	5,282.31	
<b>Infrastructure</b>		<b>17.49</b>	<b>82.81</b>	<b>126.32</b>	<b>0.22</b>	<b>6.98</b>	<b>6.42</b>	<b>20,065.63</b>
On-Site	16.78	74.35	119.35	0.19	6.09	5.61	17,287.11	
Off-Site	0.70	8.46	6.97	0.03	0.89	0.81	2,778.52	
<b>Structures and Paving</b>		<b>44.40</b>	<b>82.81</b>	<b>126.32</b>	<b>0.22</b>	<b>6.98</b>	<b>6.42</b>	<b>20,065.63</b>
On-Site	43.70	74.35	119.35	0.19	6.09	5.61	17,287.11	
Off-Site	0.70	8.46	6.97	0.03	0.89	0.81	2,778.52	
<b>Regional Daily Maximum</b>		<b>44</b>	<b>92</b>	<b>144</b>	<b>0</b>	<b>48</b>	<b>16</b>	
<b>THRESHOLD</b>		<b>75</b>	<b>500</b>	<b>100</b>	<b>150</b>	<b>150</b>	<b>50</b>	
<b>IMPACT?</b>		<b>no</b>	<b>no</b>	<b>yes</b>	<b>no</b>	<b>no</b>	<b>no</b>	
<b>On-Site TOTAL</b>		<b>51</b>	<b>79</b>	<b>120</b>	<b>0</b>	<b>46</b>	<b>14</b>	
<b>On-Site DUST ONLY</b>		<b>51</b>	<b>79</b>	<b>120</b>	<b>0</b>	<b>46</b>	<b>8</b>	
<b>On-Site EMISSIONS ONLY</b>		<b>51</b>	<b>79</b>	<b>120</b>	<b>0</b>	<b>46</b>	<b>8</b>	

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

Phase 4 – Unmitigated

EQUIPMENT		Equipment Emissions (ppd)						
# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>								
Construction Equipment	20	15.30	75.58	105.31	0.20	5.17	4.76	
<b>TOTAL</b>	<b>20</b>	<b>15.30</b>	<b>75.58</b>	<b>105.31</b>	<b>0.20</b>	<b>5.17</b>	<b>4.76</b>	
<b>Site Preparation</b>								
Construction Equipment	20	15.30	75.58	105.31	0.20	5.17	4.76	
<b>TOTAL</b>	<b>20</b>	<b>15.30</b>	<b>75.58</b>	<b>105.31</b>	<b>0.20</b>	<b>5.17</b>	<b>4.76</b>	
<b>Infrastructure</b>								
Construction Equipment	20	15.30	75.58	105.31	0.20	5.17	4.76	
<b>TOTAL</b>	<b>20</b>	<b>15.30</b>	<b>75.58</b>	<b>105.31</b>	<b>0.20</b>	<b>5.17</b>	<b>4.76</b>	
<b>Structures and Paving</b>								
Construction Equipment	20	15.30	75.58	105.31	0.20	5.17	4.76	
<b>TOTAL</b>	<b>20</b>	<b>15.30</b>	<b>75.58</b>	<b>105.31</b>	<b>0.20</b>	<b>5.17</b>	<b>4.76</b>	

WORKER VEHICLES		Worker Vehicle Emissions (ppd)							
# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>	<b>50</b>	<b>1,330.00</b>	<b>0.09</b>	<b>4.20</b>	<b>0.35</b>	<b>0.010</b>	<b>0.029</b>	<b>0.027</b>	<b>1,106.3</b>
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Site Preparation</b>	<b>50</b>	<b>1,330.00</b>	<b>0.09</b>	<b>4.20</b>	<b>0.35</b>	<b>0.010</b>	<b>0.029</b>	<b>0.027</b>	<b>1,106.3</b>
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Infrastructure</b>	<b>50</b>	<b>1,330.00</b>	<b>0.09</b>	<b>4.20</b>	<b>0.35</b>	<b>0.010</b>	<b>0.029</b>	<b>0.027</b>	<b>1,106.3</b>
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Structures and Paving</b>	<b>50</b>	<b>1,330.00</b>	<b>0.09</b>	<b>4.20</b>	<b>0.35</b>	<b>0.010</b>	<b>0.029</b>	<b>0.027</b>	<b>1,106.3</b>
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)								
Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>	<b>50</b>	<b>30</b>	<b>1,500</b>	<b>1.92</b>	<b>9.85</b>	<b>19.76</b>	<b>0.07</b>	<b>0.66</b>	<b>0.61</b>	<b>6,278.28</b>
<b>Site Preparation</b>	<b>50</b>	<b>20</b>	<b>1,000</b>	<b>1.28</b>	<b>6.56</b>	<b>13.17</b>	<b>0.04</b>	<b>0.44</b>	<b>0.41</b>	<b>4,184.19</b>
<b>Infrastructure</b>	<b>20</b>	<b>400</b>	<b>0.51</b>	<b>2.63</b>	<b>5.27</b>	<b>0.02</b>	<b>0.18</b>	<b>0.16</b>	<b>1,673.67</b>	
<b>Structures and Paving</b>	<b>20</b>	<b>20</b>	<b>400</b>	<b>0.51</b>	<b>2.63</b>	<b>5.27</b>	<b>0.02</b>	<b>0.18</b>	<b>0.16</b>	<b>1,673.67</b>

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)								
# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>	<b>1</b>	<b>1.00</b>	<b>5.00</b>	<b>0.06</b>	<b>0.14</b>	<b>0.17</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>42.08</b>
<b>Site Preparation</b>	<b>1</b>	<b>3.00</b>	<b>15.00</b>	<b>0.18</b>	<b>0.41</b>	<b>0.51</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>126.25</b>
<b>Infrastructure</b>	<b>1</b>	<b>1.00</b>	<b>5.00</b>	<b>0.06</b>	<b>0.14</b>	<b>0.17</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>42.08</b>
<b>Structures and Paving</b>	<b>1</b>	<b>1.00</b>	<b>5.00</b>	<b>0.06</b>	<b>0.14</b>	<b>0.17</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>42.08</b>

FUGITIVE DUST		PM10		PM2.5		
Max Daily Demo (ft <sup>2</sup> )	PM10	PM2.5	calc up			
<b>Demolition [2]</b>	41,511	17.43	3.63	798,345.00 cf of structures	325,714.50 cf of paving	702,410.00 cf of protected school structures
<b>Site Preparation [3]</b>	4.35	64.8	13.5	540,144.00 sf of residential/comm areas	217,800.00 sf of public area	17.40 total acres

ARCHITECTURAL COATING [4]		Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT	ROG (ppd)
<b>Residential</b>	<b>1</b>	<b>725,473</b>	<b>1,469,082.83</b>	<b>489,694.28</b>	<b>0.012</b>	<b>1,030.96</b>	
<b>Non-Residential</b>	<b>1</b>	<b>190,050</b>	<b>285,000</b>	<b>95,000</b>	<b>0.012</b>	<b>200.00</b>	
<b>TOTAL</b>						<b>1,230.96</b>	

Asphalt Paving [5]		Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre	ROG (ppd)
<b>Paving</b>	<b>2.812213039</b>	<b>1</b>	<b>2.812213039</b>	<b>2.62</b>	<b>7.37</b>	

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>	<b>17.36</b>	<b>89.77</b>	<b>125.58</b>	<b>0.28</b>	<b>23.31</b>	<b>9.03</b>	<b>25,576.95</b>	
On-Site	15.36	75.72	105.47	0.20	22.62	8.39	18,194.38	
Off-Site	2.00	14.05	20.11	0.08	0.69	0.63	7,382.57	
<b>Site Preparation</b>	<b>15.84</b>	<b>86.76</b>	<b>119.33</b>	<b>0.25</b>	<b>20.47</b>	<b>8.89</b>	<b>23,949.09</b>	
On-Site	15.48	75.99	105.81	0.20	20.00	8.26	18,278.55	
Off-Site	1.37	10.77	13.52	0.05	0.47	0.43	5,290.47	
<b>Infrastructure</b>	<b>15.96</b>	<b>82.54</b>	<b>111.09</b>	<b>0.23</b>	<b>5.39</b>	<b>4.96</b>	<b>20,974.34</b>	
On-Site	15.36	75.72	105.47	0.20	5.18	4.77	18,194.38	
Off-Site	0.60	6.83	5.62	0.03	0.21	0.19	2,779.96	
<b>Structures and Paving</b>	<b>1,246.92</b>	<b>82.54</b>	<b>111.09</b>	<b>0.23</b>	<b>5.39</b>	<b>4.96</b>	<b>20,974.34</b>	
On-Site	1,246.32	75.72	105.47	0.20	5.18	4.77	18,194.38	
Off-Site	0.60	6.83	5.62	0.03	0.21	0.19	2,779.96	
<b>Regional Daily Maximum</b>	<b>1,247</b>	<b>90</b>	<b>126</b>	<b>0</b>	<b>70</b>	<b>19</b>		
THRESHOLD	75	500	100	150	150	50		
IMPACT?	yes	no	yes	no	no	no		
<b>On-Site TOTAL</b>	<b>1,254</b>	<b>76</b>	<b>106</b>	<b>0</b>	<b>70</b>	<b>19</b>		
<b>On-Site DUST ONLY</b>	<b>1,254</b>	<b>76</b>	<b>106</b>	<b>0</b>	<b>65</b>	<b>13</b>		
<b>On-Site EMISSIONS ONLY</b>	<b>1,254</b>	<b>76</b>	<b>106</b>	<b>0</b>	<b>70</b>	<b>19</b>		

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.



Phase 4 – Mitigated

EQUIPMENT		Equipment Emissions (ppd)						
	# Equipment	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>								
Construction Equipment	20	14.53	71.80	100.04	0.19	4.91	4.52	17,244.68
<b>TOTAL</b>	<b>20</b>	<b>14.53</b>	<b>71.80</b>	<b>100.04</b>	<b>0.19</b>	<b>4.91</b>	<b>4.52</b>	<b>17,244.68</b>
<b>Site Preparation</b>								
Construction Equipment	20	14.53	71.80	100.04	0.19	4.91	4.52	17,244.68
<b>TOTAL</b>	<b>20</b>	<b>14.53</b>	<b>71.80</b>	<b>100.04</b>	<b>0.19</b>	<b>4.91</b>	<b>4.52</b>	<b>17,244.68</b>
<b>Infrastructure</b>								
Construction Equipment	20	14.53	71.80	100.04	0.19	4.91	4.52	17,244.68
<b>TOTAL</b>	<b>20</b>	<b>14.53</b>	<b>71.80</b>	<b>100.04</b>	<b>0.19</b>	<b>4.91</b>	<b>4.52</b>	<b>17,244.68</b>
<b>Structures and Paving</b>								
Construction Equipment	20	14.53	71.80	100.04	0.19	4.91	4.52	17,244.68
<b>TOTAL</b>	<b>20</b>	<b>14.53</b>	<b>71.80</b>	<b>100.04</b>	<b>0.19</b>	<b>4.91</b>	<b>4.52</b>	<b>17,244.68</b>

WORKER VEHICLES		Worker Vehicle Emissions (ppd)							
	# of Workers	Total VMT/Day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>									
	50	1,330.00	0.09	4.20	0.35	0.010	0.029	0.027	1,106.3
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Site Preparation</b>									
	50	1,330.00	0.09	4.20	0.35	0.010	0.029	0.027	1,106.3
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Infrastructure</b>									
	50	1,330.00	0.09	4.20	0.35	0.010	0.029	0.027	1,106.3
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53
<b>Structures and Paving</b>									
	50	1,330.00	0.09	4.20	0.35	0.010	0.029	0.027	1,106.3
Cars	25.0	665.00	0.06	2.53	0.22	0.00	0.01	0.01	615.75
Trucks	25.0	665.00	0.03	1.67	0.13	0.01	0.01	0.01	490.53

HEAVY-DUTY TRUCK TRIPS		Heavy-duty Truck Emissions (ppd)								
	Trips per Day	Round Trip Length	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>										
	50	30	1,500	1.92	9.85	19.76	0.07	0.66	0.61	6,278.28
<b>Site Preparation</b>										
	50	20	1,000	1.28	6.56	13.17	0.04	0.44	0.41	4,184.19
<b>Infrastructure</b>										
	20	400	0.51	2.63	5.27	0.02	0.18	0.16	1,673.67	
<b>Structures and Paving</b>										
	20	20	400	0.51	2.63	5.27	0.02	0.18	0.16	1,673.67

WATER TRUCK USAGE [1]		Heavy-duty Truck Emissions (ppd)								
	# of Water Trucks	Hours of Operation	VMT/day	ROG	CO	NOX	SOX	PM10	PM2.5	CO2
<b>Demolition</b>										
	1	1.00	5.00	0.06	0.14	0.17	0.00	0.01	0.01	42.08
<b>Site Preparation</b>										
	1	3.00	15.00	0.18	0.41	0.51	0.00	0.02	0.02	126.25
<b>Infrastructure</b>										
	1	1.00	5.00	0.06	0.14	0.17	0.00	0.01	0.01	42.08
<b>Structures and Paving</b>										
	1	1.00	5.00	0.06	0.14	0.17	0.00	0.01	0.01	42.08

FUGITIVE DUST				calc up		
	Max Daily Demo (ft <sup>3</sup> )	PM10	PM2.5			
<b>Demolition [2]</b>						
	41,511	17.43	3.63	798,345.00	325,714.50	702,410.00
	Max Daily Grading (acres)	PM10	PM2.5			
<b>Site Preparation [3]</b>						
	4.35	64.8	13.5	540,144.00	217,800.00	17.40

ARCHITECTURAL COATING [4]							ROG (ppd)
	Months of Arch Coating	Total SQ FT	Interior SQ FT	Exterior SQ FT	ROG per SQ FT		
<b>Residential</b>							
	1	725,473	1,469,082.83	489,694.28	0.00046	41.24	
<b>Non-Residential</b>							
	1	190,050	285,000	95,000	0.00046	8.00	
<b>TOTAL</b>						<b>49.24</b>	

Asphalt Paving [5]						ROG (ppd)
	Total Acres to be Paved	Paving Days (Schedule)	Acres Paved Per Day	ROG/Acre		
<b>Paving</b>						
	2.812213039	1	2.812213039	2.62	7.37	

TOTAL EMISSIONS		Emissions (ppd)						
	ROG	CO	NOX	SOX	PM10	PM2.5	CO2	
<b>Demolition</b>		16.60	85.99	120.32	0.27	23.05	8.79	24,669.33
On-Site	14.59	71.94	100.21	0.19	22.36	8.15	17,286.77	
Off-Site	2.00	14.05	20.11	0.08	0.69	0.63	7,382.57	
<b>Site Preparation</b>		16.60	85.99	120.32	0.27	23.05	8.79	24,669.33
On-Site	14.71	72.21	100.55	0.19	69.74	18.02	17,370.93	
Off-Site	1.87	10.77	13.52	0.05	0.47	0.43	5,298.47	
<b>Infrastructure</b>		15.19	78.77	105.83	0.22	5.13	4.72	20,066.73
On-Site	14.59	71.94	100.21	0.19	4.92	4.53	17,286.77	
Off-Site	0.60	6.83	5.62	0.03	0.21	0.19	2,779.96	
<b>Structures and Paving</b>		64.43	78.77	105.83	0.22	5.13	4.72	20,066.73
On-Site	63.83	71.94	100.21	0.19	4.92	4.53	17,286.77	
Off-Site	0.60	6.83	5.62	0.03	0.21	0.19	2,779.96	
<b>Regional Daily Maximum</b>		84	86	120	0	70	18	
<b>THRESHOLD IMPACT?</b>		75	500	100	150	150	50	
	no	no	yes	no	no	no		
<b>On-Site TOTAL</b>		71	72	101	0	70	18	
<b>On-Site DUST ONLY</b>						65	13	
<b>On-Site EMISSIONS ONLY</b>						71	5	

[1] Assumed water trucks would operate on site three hours each day during Grading phase at a rate of 5 mph (compliance with Rule 403). Assumed a one-hour operation period for all other phases.

[2] Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material) / Number of days in Demolition Schedule.

[3] Used URBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance. Assumed that rough grading would require a minimum of four days.

[4] Used URBEMIS2007's architectural coating calculations for interior and exterior square footage to be painted, and calculations for ROG per square foot. Used the more conservative "1,800 Dwelling Unit Option" assumptions for residential square footage.

[5] Used URBEMIS2007's asphalt paving calculations for ROG per acre paved. Acres to be paved was provided by project proponent.

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

Fugitive Dust Emissions - Inputs for ISC-AERMOD		
	Weight Conv. [a]	Time Adjustment [b]
	453.59	43,200
Project Phase	lb/day [c]	g/s
PM10	183.0	1.92E+00
PM2.5	38.1	4.00E-01

[a] Weight conversion is the amount of grams per pound.  
 [b] Time adjustment is the number of seconds in 12 hours (1 day of grading).  
 [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.

Off-Road Equipment Emissions - Unmitigated				
Daily Emissions by Year (ppd)	CO	NO2 [1]	PM2.5	PM10
	87	17	8.7	9.5
Conversion to Grams/Second	CO	NO2	PM2.5	PM10
	0.9181	0.1822	0.0917	0.0997

[1] 10% conversion factor from NOX to NO2 for purposes of modeling in AERMOD dispersion model.

UNMITIGATED CONSTRUCTION EMISSIONS CALCULATIONS

<b>Fugitive Dust Emissions - Inputs for ISC-AERMOD</b>		
	<b>Weight Conv. [a]</b>	<b>Time Adjustment [b]</b>
	453.59	43,200
<b>Project Phase</b>	<b>lb/day [c]</b>	<b>g/s</b>
<b>PM10</b>	183.0	1.92E+00
<b>PM2.5</b>	38.1	4.00E-01
<p>[a] Weight conversion is the amount of grams per pound.                  [b] Time adjustment is the number of seconds in 12 hours (1 day of grading).                  [c] Pounds per day emissions rate from construction emissions developed using Offroad 2007 and EMFAC 2007 emissions factors.</p>		

<b>Off-Road Equipment Emissions - Mitigated</b>				
<b>Daily Emissions by Year (ppd)</b>	<b>CO</b>	<b>NO2 [1]</b>	<b>PM2.5</b>	<b>PM10</b>
	83	16	8.3	9.0
<b>Conversion to Grams/Second</b>	<b>CO</b>	<b>NO2</b>	<b>PM2.5</b>	<b>PM10</b>
	0.8730	0.1732	0.0872	0.0947

[1] 10% conversion factor from NOX to NO2 for purposes of modeling in AERMOD dispersion model.

## Appendix D

# Localized Construction Modeling

# Localized CO Analysis – Off-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/14/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\CO\CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaon Downs Localized CO Concentrations
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** Source Parameters **
SRCPARAM PAREAL 0.00002248 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
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DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
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DISCCART 385754.49 3756736.89 0.00 0.00
DISCCART 385775.84 3756736.89 0.00 0.00
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DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
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# Localized CO Analysis – Off-Site Unmitigated

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DISCCART 385754.49 3756843.65 0.00 0.00
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DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
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DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
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DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/14/10
***                                     ***                                     ***      16:42:55
***                                     ***                                     ***      PAGE 1

**MODELOPTs:  RegDEFAULT CONC                ELEV
                NODRYDPLT NOWETDPLT

                ***      MODEL SETUP OPTIONS SUMMARY      ***
-----

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 1 Source(s); 1 Source Group(s); and 99 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

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# Localized CO Analysis – Off-Site Unmitigated

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385754.49 3756736.89 0.14291 (05102106) 385775.84 3756736.89 0.14850 (07081401)
385754.49 3756763.58 0.14623 (07090124) 385775.84 3756763.58 0.15153 (07090124)
385754.49 3756790.27 0.14057 (07101201) 385775.84 3756790.27 0.14602 (07101201)
385754.49 3756816.96 0.14167 (06121509) 385775.84 3756816.96 0.14780 (06121509)
385754.49 3756843.65 0.16966 (06121509) 385775.84 3756843.65 0.17593 (06121509)
385754.49 3756870.34 0.19784 (05041807) 385775.84 3756870.34 0.21397 (05041807)
385754.49 3756897.03 0.25595 (05041807) 385775.84 3756897.03 0.27365 (05041807)
385799.32 3756329.31 0.27610 (07121809) 385832.26 3756329.31 0.31473 (07121809)
385865.20 3756329.31 0.34487 (07121809) 385898.14 3756329.31 0.36200 (07121809)
385931.08 3756329.31 0.36285 (07121809) 385964.02 3756329.31 0.40038 (05082807)
385996.96 3756329.31 0.44614 (05082807) 386029.90 3756329.31 0.47169 (05082807)
386062.84 3756329.31 0.47213 (05082807) 386095.78 3756329.31 0.44640 (05082807)
386128.72 3756329.31 0.42486 (05060207) 386161.66 3756329.31 0.46824 (05060207)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/14/10
***                                     ***                                     ***      16:42:55
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 9
                                NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
386194.60 3756329.31 0.48148 (05060207) 386227.54 3756329.31 0.47719 (05102808)
386260.48 3756329.31 0.45667 (07070306) 386293.42 3756329.31 0.47749 (07070306)
386326.36 3756329.31 0.47150 (06041907) 386359.30 3756329.31 0.46979 (06041907)
386392.24 3756329.31 0.47057 (05110508) 386425.18 3756329.31 0.46360 (06042007)
386458.12 3756329.31 0.46910 (06031508) 386588.30 3756977.75 0.51481 (06051407)
386593.51 3756917.86 0.66745 (06051407) 386606.53 3756857.97 0.50632 (07090907)
386614.34 3756798.08 0.64235 (07090907) 386619.54 3756743.40 0.66848 (05081007)
386632.56 3756691.32 0.57688 (07091107) 386642.98 3756634.04 0.58973 (07030308)
386658.60 3756571.54 0.54241 (07110408) 386663.81 3756519.47 0.46026 (06031408)
386669.02 3756469.99 0.48635 (06031408)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/14/10
***                                     ***                                     ***      16:42:55
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 10
                                NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
385804.01 3756930.88 0.05178c (05041808) 385849.84 3756930.88 0.05683c (05041808)
385895.67 3756930.88 0.06151c (05041808) 385941.50 3756930.88 0.06596c (05041808)
385987.33 3756930.88 0.07140c (05041808) 386033.16 3756930.88 0.08157c (05041808)
386078.99 3756930.88 0.10242c (05041808) 386124.82 3756930.88 0.13541c (05041808)
386170.65 3756930.88 0.16508c (05041808) 386216.48 3756930.88 0.18122c (05041808)
386262.31 3756930.88 0.21780c (05041808) 386308.14 3756930.88 0.31555c (05041808)
386353.97 3756930.88 0.38212c (05041808) 385804.01 3756953.92 0.05613c (05041808)
385849.84 3756953.92 0.06013c (05041808) 385895.67 3756953.92 0.06366c (05041808)
385941.50 3756953.92 0.06734c (05041808) 385987.33 3756953.92 0.07317c (05041808)
386033.16 3756953.92 0.08503c (05041808) 386078.99 3756953.92 0.10663c (05041808)
386124.82 3756953.92 0.13487c (05041808) 386170.65 3756953.92 0.15618c (05041808)
386216.48 3756953.92 0.17272c (05041808) 386262.31 3756953.92 0.21528c (05041808)
386308.14 3756953.92 0.29575c (05041808) 386353.97 3756953.92 0.30409c (05041808)
385754.49 3756363.23 0.03703 (06041108) 385775.84 3756363.23 0.03792 (05122308)
385754.49 3756389.92 0.03930 (05102508) 385775.84 3756389.92 0.03949 (06041108)
385754.49 3756416.61 0.04325 (05102508) 385775.84 3756416.61 0.04283 (05102508)
385754.49 3756443.30 0.04629 (05102508) 385775.84 3756443.30 0.04638 (05102508)
385754.49 3756469.99 0.04780 (05102508) 385775.84 3756469.99 0.04858 (05102508)
385754.49 3756496.68 0.04729 (05102508) 385775.84 3756496.68 0.04883 (05102508)
385754.49 3756523.37 0.04454 (05102508) 385775.84 3756523.37 0.04675 (05102508)
385754.49 3756550.06 0.03973 (05102508) 385775.84 3756550.06 0.04240 (05102508)
385754.49 3756576.75 0.04237 (06121608) 385775.84 3756576.75 0.04374 (06121608)
385754.49 3756603.44 0.04404 (06121608) 385775.84 3756603.44 0.04606 (06121608)
385754.49 3756630.13 0.04283 (06121608) 385775.84 3756630.13 0.04535 (06121608)
385754.49 3756656.82 0.03869 (06121608) 385775.84 3756656.82 0.04140 (06121608)
385754.49 3756683.51 0.03247 (06121608) 385775.84 3756683.51 0.03501 (06121608)
385754.49 3756710.20 0.03572 (07090608) 385775.84 3756710.20 0.03727 (07090608)
385754.49 3756736.89 0.04051 (07090608) 385775.84 3756736.89 0.04236 (07090608)
385754.49 3756763.58 0.04343 (07090608) 385775.84 3756763.58 0.04542 (07090608)
385754.49 3756790.27 0.04404 (07090608) 385775.84 3756790.27 0.04595 (07090608)
385754.49 3756816.96 0.04240 (07090608) 385775.84 3756816.96 0.04409 (07090608)
385754.49 3756843.65 0.04082c (07070208) 385775.84 3756843.65 0.04325c (07070208)
385754.49 3756870.34 0.04334c (07070208) 385775.84 3756870.34 0.04567c (07070208)
385754.49 3756897.03 0.04409c (07070208) 385775.84 3756897.03 0.04607c (07070208)
385799.32 3756329.31 0.05015 (07121816) 385832.26 3756329.31 0.06027 (07121816)
385865.20 3756329.31 0.07025 (07121816) 385898.14 3756329.31 0.07907 (07121816)
385931.08 3756329.31 0.08557 (07121816) 385964.02 3756329.31 0.08867 (07121816)
385996.96 3756329.31 0.08768 (07121816) 386029.90 3756329.31 0.08247 (07121816)
386062.84 3756329.31 0.08908 (06031708) 386095.78 3756329.31 0.09601 (06031708)
386128.72 3756329.31 0.09611 (06031708) 386161.66 3756329.31 0.09161c (07031308)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/14/10
***                                     ***                                     ***      16:42:55
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 11
                                NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
386194.60 3756329.31 0.09882c (07031308) 386227.54 3756329.31 0.10613m (06030908)
386260.48 3756329.31 0.11441m (06030908) 386293.42 3756329.31 0.11608m (06030908)
386326.36 3756329.31 0.11112m (06030908) 386359.30 3756329.31 0.11433 (06012508)
386392.24 3756329.31 0.12693c (07011008) 386425.18 3756329.31 0.13511c (07011008)
386458.12 3756329.31 0.13219c (07121408) 386588.30 3756977.75 0.21867c (05042324)
386593.51 3756917.86 0.26355m (05041224) 386606.53 3756857.97 0.27861 (07090908)

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# Localized CO Analysis – Off-Site Unmitigated

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386614.34 3756798.08 0.34338c (05081008) 386619.54 3756743.40 0.31590c (05081008)
386632.56 3756691.32 0.29714 (05081608) 386642.98 3756634.04 0.30611 (05081608)
386658.60 3756571.54 0.22846 (05081608) 386663.81 3756519.47 0.18535c (06031408)
386669.02 3756469.99 0.19028c (06031408)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/14/10
*** *** *** 16:42:55
*** *** *** PAGE 12

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```

```

** CONC OF CO IN PPM **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK
(YMMMDDHH) GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 0.66848 ON 05081007: AT ( 386619.54, 3756743.40, 0.00, 0.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/14/10
*** *** *** 16:42:55
*** *** *** PAGE 13

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```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```

```

** CONC OF CO IN PPM **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK
(YMMMDDHH) GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 0.38212c ON 05041808: AT ( 386353.97, 3756930.88, 0.00, 0.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/14/10
*** *** *** 16:42:55
*** *** *** PAGE 14

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```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

```

----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

# Localized CO Analysis – Off-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\Mitigated\Off-Site\CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaon Downs Localized CO Concentrations
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** Source Parameters **
SRCPARAM PAREAL 0.00002137 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
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DISCCART 385895.67 3756953.92 0.00 0.00
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DISCCART 385754.49 3756736.89 0.00 0.00
DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
```

# Localized CO Analysis – Off-Site Mitigated

```

DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/15/10
***                                     ***                                     ***      09:14:29
***                                     ***                                     ***      PAGE 1

**MODELOPTs:  RegDFAULT CONC                ELEV
                NODRYDPLT NOWETDPLT

                ***      MODEL SETUP OPTIONS SUMMARY      ***
-----

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      1 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of:  1-HR  8-HR

**This Run Includes:      1 Source(s);      1 Source Group(s); and      99 Receptor(s)

**The Model Assumes A Pollutant Type of:  CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

```

# Localized CO Analysis – Off-Site Mitigated

**\*\*NOTE:** The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

**\*\*Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 873.20  
 Output Units = PPM

**\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.**

**\*\*\* AERMOD - VERSION 09292 \*\*\***      **\*\*\* Jordaon Downs Localized CO Concentrations**      **\*\*\***      07/15/10  
**\*\*\***      **\*\*\***      **\*\*\***      09:14:29  
**\*\*\***      **\*\*\***      **\*\*\***      PAGE 2

**\*\*MODELOPTs:** RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

**\*\*\* AREAPOLY SOURCE DATA \*\*\***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.21370E-04	386351.2	3756898.6	0.0	5.00	6	0.00	YES	

**\*\*\* AERMOD - VERSION 09292 \*\*\***      **\*\*\* Jordaon Downs Localized CO Concentrations**      **\*\*\***      07/15/10  
**\*\*\***      **\*\*\***      **\*\*\***      09:14:29  
**\*\*\***      **\*\*\***      **\*\*\***      PAGE 3

**\*\*MODELOPTs:** RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

**\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\***

GROUP ID      SOURCE IDs

ALL      PAREAL ,

**\*\*\* AERMOD - VERSION 09292 \*\*\***      **\*\*\* Jordaon Downs Localized CO Concentrations**      **\*\*\***      07/15/10  
**\*\*\***      **\*\*\***      **\*\*\***      09:14:29  
**\*\*\***      **\*\*\***      **\*\*\***      PAGE 4

**\*\*MODELOPTs:** RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

**\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\***  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0);	( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0);	( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0);	( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0);	( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0);	( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0);	( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0);	( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0);	( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0);	( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0);	( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0);	( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0);	( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0);	( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0);	( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0);	( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0);	( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0);	( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0);	( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0);	( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0);	( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0);	( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0);	( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0);	( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0);	( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0);	( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0);	( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0);	( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0);	( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0);	( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0);	( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0);	( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0);	( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0);	( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0);	( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0);	( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0);	( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0);	( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0);	( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0);	( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0);	( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0);	( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0);	( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0);	( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0);	( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0);	( 386488.3, 3756329.3, 0.0, 0.0, 0.0);

**\*\*\* AERMOD - VERSION 09292 \*\*\***      **\*\*\* Jordaon Downs Localized CO Concentrations**      **\*\*\***      07/15/10  
**\*\*\***      **\*\*\***      **\*\*\***      09:14:29  
**\*\*\***      **\*\*\***      **\*\*\***      PAGE 5

**\*\*MODELOPTs:** RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

**\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\***  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0);	( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0);	( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0);	( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0);	( 386663.8, 3756519.5, 0.0, 0.0, 0.0);
( 386669.0, 3756470.0, 0.0, 0.0, 0.0);	

**\*\*\* AERMOD - VERSION 09292 \*\*\***      **\*\*\* Jordaon Downs Localized CO Concentrations**      **\*\*\***      07/15/10  
**\*\*\***      **\*\*\***      **\*\*\***      09:14:29  
**\*\*\***      **\*\*\***      **\*\*\***      PAGE 6

**\*\*MODELOPTs:** RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT



# Localized CO Analysis – Off-Site Mitigated

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385754.49 3756736.89 0.13585 (05102106) 385775.84 3756736.89 0.14117 (07081401)
385754.49 3756763.58 0.13901 (07090124) 385775.84 3756763.58 0.14405 (07090124)
385754.49 3756790.27 0.13363 (07101201) 385775.84 3756790.27 0.13881 (07101201)
385754.49 3756816.96 0.13467 (06121509) 385775.84 3756816.96 0.14050 (06121509)
385754.49 3756843.65 0.16128 (06121509) 385775.84 3756843.65 0.16724 (06121509)
385754.49 3756870.34 0.18807 (05041807) 385775.84 3756870.34 0.20341 (05041807)
385754.49 3756897.03 0.24331 (05041807) 385775.84 3756897.03 0.26014 (05041807)
385799.32 3756329.31 0.26247 (07121809) 385832.26 3756329.31 0.29919 (07121809)
385865.20 3756329.31 0.32785 (07121809) 385898.14 3756329.31 0.34413 (07121809)
385931.08 3756329.31 0.34493 (07121809) 385964.02 3756329.31 0.38061 (05082807)
385996.96 3756329.31 0.42411 (05082807) 386029.90 3756329.31 0.44840 (05082807)
386062.84 3756329.31 0.44882 (05082807) 386095.78 3756329.31 0.42435 (05082807)
386128.72 3756329.31 0.40389 (05060207) 386161.66 3756329.31 0.44512 (05060207)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/15/10
***                                     ***                                     ***      09:14:29
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 9
                                NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
386194.60 3756329.31 0.45771 (05060207) 386227.54 3756329.31 0.45363 (05102808)
386260.48 3756329.31 0.43412 (07070306) 386293.42 3756329.31 0.45392 (07070306)
386326.36 3756329.31 0.44821 (06041907) 386359.30 3756329.31 0.44660 (06041907)
386392.24 3756329.31 0.44733 (05110508) 386425.18 3756329.31 0.44071 (06042007)
386458.12 3756329.31 0.44594 (06031508) 386588.30 3756977.75 0.48939 (06051407)
386593.51 3756917.86 0.63449 (06051407) 386606.53 3756857.97 0.48132 (07090907)
386614.34 3756798.08 0.61064 (07090907) 386619.54 3756743.40 0.63547 (05081007)
386632.56 3756691.32 0.54840 (07091107) 386642.98 3756634.04 0.56061 (07030308)
386658.60 3756571.54 0.51563 (07110408) 386663.81 3756519.47 0.43753 (06031408)
386669.02 3756469.99 0.46234 (06031408)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/15/10
***                                     ***                                     ***      09:14:29
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 10
                                NODRYDPLT NOWETDPLT

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
385804.01 3756930.88 0.04923c (05041808) 385849.84 3756930.88 0.05403c (05041808)
385895.67 3756930.88 0.05847c (05041808) 385941.50 3756930.88 0.06270c (05041808)
385987.33 3756930.88 0.06788c (05041808) 386033.16 3756930.88 0.07754c (05041808)
386078.99 3756930.88 0.09736c (05041808) 386124.82 3756930.88 0.12872c (05041808)
386170.65 3756930.88 0.15693c (05041808) 386216.48 3756930.88 0.17227c (05041808)
386262.31 3756930.88 0.20704c (05041808) 386308.14 3756930.88 0.29997c (05041808)
386353.97 3756930.88 0.36325c (05041808) 385804.01 3756953.92 0.05336c (05041808)
385849.84 3756953.92 0.05716c (05041808) 385895.67 3756953.92 0.06052c (05041808)
385941.50 3756953.92 0.06401c (05041808) 385987.33 3756953.92 0.06956c (05041808)
386033.16 3756953.92 0.08083c (05041808) 386078.99 3756953.92 0.10135c (05041808)
386124.82 3756953.92 0.12821c (05041808) 386170.65 3756953.92 0.14846c (05041808)
386216.48 3756953.92 0.16419c (05041808) 386262.31 3756953.92 0.20465c (05041808)
386308.14 3756953.92 0.28114c (05041808) 386353.97 3756953.92 0.28908c (05041808)
385754.49 3756363.23 0.03520 (06041108) 385775.84 3756363.23 0.03605 (05122308)
385754.49 3756389.92 0.03736 (05102508) 385775.84 3756389.92 0.03754 (06041108)
385754.49 3756416.61 0.04111 (05102508) 385775.84 3756416.61 0.04071 (05102508)
385754.49 3756443.30 0.04400 (05102508) 385775.84 3756443.30 0.04409 (05102508)
385754.49 3756469.99 0.04544 (05102508) 385775.84 3756469.99 0.04619 (05102508)
385754.49 3756496.68 0.04495 (05102508) 385775.84 3756496.68 0.04642 (05102508)
385754.49 3756523.37 0.04234 (05102508) 385775.84 3756523.37 0.04445 (05102508)
385754.49 3756550.06 0.03777 (05102508) 385775.84 3756550.06 0.04030 (05102508)
385754.49 3756576.75 0.04028 (06121608) 385775.84 3756576.75 0.04158 (06121608)
385754.49 3756603.44 0.04187 (06121608) 385775.84 3756603.44 0.04379 (06121608)
385754.49 3756630.13 0.04071 (06121608) 385775.84 3756630.13 0.04311 (06121608)
385754.49 3756656.82 0.03678 (06121608) 385775.84 3756656.82 0.03935 (06121608)
385754.49 3756683.51 0.03087 (06121608) 385775.84 3756683.51 0.03328 (06121608)
385754.49 3756710.20 0.03396 (07090608) 385775.84 3756710.20 0.03543 (07090608)
385754.49 3756736.89 0.03851 (07090608) 385775.84 3756736.89 0.04027 (07090608)
385754.49 3756763.58 0.04129 (07090608) 385775.84 3756763.58 0.04318 (07090608)
385754.49 3756790.27 0.04187 (07090608) 385775.84 3756790.27 0.04369 (07090608)
385754.49 3756816.96 0.04031 (07090608) 385775.84 3756816.96 0.04191 (07090608)
385754.49 3756843.65 0.03881c (07070208) 385775.84 3756843.65 0.04111c (07070208)
385754.49 3756870.34 0.04120c (07070208) 385775.84 3756870.34 0.04342c (07070208)
385754.49 3756897.03 0.04192c (07070208) 385775.84 3756897.03 0.04379c (07070208)
385799.32 3756329.31 0.04768 (07121816) 385832.26 3756329.31 0.05730 (07121816)
385865.20 3756329.31 0.06678 (07121816) 385898.14 3756329.31 0.07517 (07121816)
385931.08 3756329.31 0.08135 (07121816) 385964.02 3756329.31 0.08429 (07121816)
385996.96 3756329.31 0.08335 (07121816) 386029.90 3756329.31 0.07840 (07121816)
386062.84 3756329.31 0.08468 (06031708) 386095.78 3756329.31 0.09127 (06031708)
386128.72 3756329.31 0.09137 (06031708) 386161.66 3756329.31 0.08708c (07031308)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized CO Concentrations      ***      07/15/10
***                                     ***                                     ***      09:14:29
**MODELOPTs:  RegDEFAULT CONC      ELEV      PAGE 11
                                NODRYDPLT NOWETDPLT

```

```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):  PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF CO      IN PPM      **
X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)  X-COORD (M)  Y-COORD (M)  CONC  (YYMMDDHH)
-----
386194.60 3756329.31 0.09394c (07031308) 386227.54 3756329.31 0.10089m (06030908)
386260.48 3756329.31 0.10876m (06030908) 386293.42 3756329.31 0.11035m (06030908)
386326.36 3756329.31 0.10563m (06030908) 386359.30 3756329.31 0.10869 (06012508)
386392.24 3756329.31 0.12066c (07011008) 386425.18 3756329.31 0.12844c (07011008)
386458.12 3756329.31 0.12566c (07121408) 386588.30 3756977.75 0.20788c (05042324)
386593.51 3756917.86 0.25054m (05041224) 386606.53 3756857.97 0.26485 (07090908)

```

# Localized CO Analysis – Off-Site Mitigated

```

386614.34 3756798.08 0.32642c (05081008) 386619.54 3756743.40 0.30031c (05081008)
386632.56 3756691.32 0.28247 (05081608) 386642.98 3756634.04 0.29100 (05081608)
386658.60 3756571.54 0.21718 (05081608) 386663.81 3756519.47 0.17620c (06031408)
386669.02 3756469.99 0.18088c (06031408)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/15/10
*** *** *** 09:14:29
*** *** PAGE 12

```

```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

```

** CONC OF CO IN PPM **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK
(YMMMDDHH)
-----
ALL HIGH 1ST HIGH VALUE IS 0.63547 ON 05081007: AT ( 386619.54, 3756743.40, 0.00, 0.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/15/10
*** *** *** 09:14:29
*** *** PAGE 13

```

```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

```

** CONC OF CO IN PPM **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK
(YMMMDDHH)
-----
ALL HIGH 1ST HIGH VALUE IS 0.36325c ON 05041808: AT ( 386353.97, 3756930.88, 0.00, 0.00, 0.00) DC

```

```

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized CO Concentrations *** 07/15/10
*** *** *** 09:14:29
*** *** PAGE 14

```

```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```



# Localized NO2 Analysis – Off-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaon Downs Localized NO2 Concentrations
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** Source Parameters **
SRCPARAM PAREAL 4.461E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
```

# Localized NO2 Analysis – Off-Site Unmitigated

```

DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
OU FINISHED
*****
*** SETUP Finishes Successfully ***
*****
*** AERMOD - VERSION 09292 *** ** Jordaon Downs Localized NO2 Concentrations *** 07/15/10
*** *** *** 09:11:09
*** *** PAGE 1
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m
**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 99 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours

```

# Localized NO2 Analysis – Off-Site Unmitigated

b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 531.50  
 Output Units = PPM

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:11:09  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.44610E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
*** AERMOD - VERSION 09292 ***			*** Jordaon Downs Localized NO2 Concentrations							***
**MODELOPTs: RegDEFAULT CONC			ELEV							07/15/10
			NODRYDPLT NOWETDPLT							09:11:09
										PAGE 2

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREAL ,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:11:09  
 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, Z-ELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0);	( 385849.8, 3756930.9, 0.0, 0.0, 0.0);		
( 385895.7, 3756930.9, 0.0, 0.0, 0.0);	( 385941.5, 3756930.9, 0.0, 0.0, 0.0);		
( 385987.3, 3756930.9, 0.0, 0.0, 0.0);	( 386033.2, 3756930.9, 0.0, 0.0, 0.0);		
( 386079.0, 3756930.9, 0.0, 0.0, 0.0);	( 386124.8, 3756930.9, 0.0, 0.0, 0.0);		
( 386170.6, 3756930.9, 0.0, 0.0, 0.0);	( 386216.5, 3756930.9, 0.0, 0.0, 0.0);		
( 386262.3, 3756930.9, 0.0, 0.0, 0.0);	( 386308.1, 3756930.9, 0.0, 0.0, 0.0);		
( 386354.0, 3756930.9, 0.0, 0.0, 0.0);	( 385804.0, 3756953.9, 0.0, 0.0, 0.0);		
( 385849.8, 3756953.9, 0.0, 0.0, 0.0);	( 385895.7, 3756953.9, 0.0, 0.0, 0.0);		
( 385941.5, 3756953.9, 0.0, 0.0, 0.0);	( 385987.3, 3756953.9, 0.0, 0.0, 0.0);		
( 386033.2, 3756953.9, 0.0, 0.0, 0.0);	( 386079.0, 3756953.9, 0.0, 0.0, 0.0);		
( 386124.8, 3756953.9, 0.0, 0.0, 0.0);	( 386170.6, 3756953.9, 0.0, 0.0, 0.0);		
( 386216.5, 3756953.9, 0.0, 0.0, 0.0);	( 386262.3, 3756953.9, 0.0, 0.0, 0.0);		
( 386308.1, 3756953.9, 0.0, 0.0, 0.0);	( 386354.0, 3756953.9, 0.0, 0.0, 0.0);		
( 385754.5, 3756363.2, 0.0, 0.0, 0.0);	( 385775.8, 3756363.2, 0.0, 0.0, 0.0);		
( 385754.5, 3756389.9, 0.0, 0.0, 0.0);	( 385775.8, 3756389.9, 0.0, 0.0, 0.0);		
( 385754.5, 3756416.6, 0.0, 0.0, 0.0);	( 385775.8, 3756416.6, 0.0, 0.0, 0.0);		
( 385754.5, 3756443.3, 0.0, 0.0, 0.0);	( 385775.8, 3756443.3, 0.0, 0.0, 0.0);		
( 385754.5, 3756470.0, 0.0, 0.0, 0.0);	( 385775.8, 3756470.0, 0.0, 0.0, 0.0);		
( 385754.5, 3756496.7, 0.0, 0.0, 0.0);	( 385775.8, 3756496.7, 0.0, 0.0, 0.0);		
( 385754.5, 3756523.4, 0.0, 0.0, 0.0);	( 385775.8, 3756523.4, 0.0, 0.0, 0.0);		
( 385754.5, 3756550.1, 0.0, 0.0, 0.0);	( 385775.8, 3756550.1, 0.0, 0.0, 0.0);		
( 385754.5, 3756576.8, 0.0, 0.0, 0.0);	( 385775.8, 3756576.8, 0.0, 0.0, 0.0);		
( 385754.5, 3756603.4, 0.0, 0.0, 0.0);	( 385775.8, 3756603.4, 0.0, 0.0, 0.0);		
( 385754.5, 3756630.1, 0.0, 0.0, 0.0);	( 385775.8, 3756630.1, 0.0, 0.0, 0.0);		
( 385754.5, 3756656.8, 0.0, 0.0, 0.0);	( 385775.8, 3756656.8, 0.0, 0.0, 0.0);		
( 385754.5, 3756683.5, 0.0, 0.0, 0.0);	( 385775.8, 3756683.5, 0.0, 0.0, 0.0);		
( 385754.5, 3756710.2, 0.0, 0.0, 0.0);	( 385775.8, 3756710.2, 0.0, 0.0, 0.0);		
( 385754.5, 3756736.9, 0.0, 0.0, 0.0);	( 385775.8, 3756736.9, 0.0, 0.0, 0.0);		
( 385754.5, 3756763.6, 0.0, 0.0, 0.0);	( 385775.8, 3756763.6, 0.0, 0.0, 0.0);		
( 385754.5, 3756790.3, 0.0, 0.0, 0.0);	( 385775.8, 3756790.3, 0.0, 0.0, 0.0);		
( 385754.5, 3756817.0, 0.0, 0.0, 0.0);	( 385775.8, 3756817.0, 0.0, 0.0, 0.0);		
( 385754.5, 3756843.6, 0.0, 0.0, 0.0);	( 385775.8, 3756843.6, 0.0, 0.0, 0.0);		
( 385754.5, 3756870.3, 0.0, 0.0, 0.0);	( 385775.8, 3756870.3, 0.0, 0.0, 0.0);		
( 385754.5, 3756897.0, 0.0, 0.0, 0.0);	( 385775.8, 3756897.0, 0.0, 0.0, 0.0);		
( 385799.3, 3756329.3, 0.0, 0.0, 0.0);	( 385832.3, 3756329.3, 0.0, 0.0, 0.0);		
( 385865.2, 3756329.3, 0.0, 0.0, 0.0);	( 385898.1, 3756329.3, 0.0, 0.0, 0.0);		
( 385931.1, 3756329.3, 0.0, 0.0, 0.0);	( 385964.0, 3756329.3, 0.0, 0.0, 0.0);		
( 385997.0, 3756329.3, 0.0, 0.0, 0.0);	( 386029.9, 3756329.3, 0.0, 0.0, 0.0);		
( 386062.8, 3756329.3, 0.0, 0.0, 0.0);	( 386095.8, 3756329.3, 0.0, 0.0, 0.0);		
( 386128.7, 3756329.3, 0.0, 0.0, 0.0);	( 386161.7, 3756329.3, 0.0, 0.0, 0.0);		
( 386194.6, 3756329.3, 0.0, 0.0, 0.0);	( 386227.5, 3756329.3, 0.0, 0.0, 0.0);		
( 386260.5, 3756329.3, 0.0, 0.0, 0.0);	( 386293.4, 3756329.3, 0.0, 0.0, 0.0);		
( 386326.4, 3756329.3, 0.0, 0.0, 0.0);	( 386359.3, 3756329.3, 0.0, 0.0, 0.0);		
( 386392.2, 3756329.3, 0.0, 0.0, 0.0);	( 386425.2, 3756329.3, 0.0, 0.0, 0.0);		
( 386458.1, 3756329.3, 0.0, 0.0, 0.0);	( 386588.3, 3756977.8, 0.0, 0.0, 0.0);		
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized NO2 Concentrations	***	07/15/10
**MODELOPTs: RegDEFAULT CONC	ELEV		09:11:09
	NODRYDPLT NOWETDPLT		PAGE 5

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, Z-ELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0);	( 386606.5, 3756858.0, 0.0, 0.0, 0.0);		
( 386614.3, 3756798.1, 0.0, 0.0, 0.0);	( 386619.5, 3756743.4, 0.0, 0.0, 0.0);		
( 386632.6, 3756691.3, 0.0, 0.0, 0.0);	( 386643.0, 3756634.0, 0.0, 0.0, 0.0);		
( 386658.6, 3756571.5, 0.0, 0.0, 0.0);	( 386663.8, 3756519.5, 0.0, 0.0, 0.0);		
( 386669.0, 3756470.0, 0.0, 0.0, 0.0);			
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized NO2 Concentrations	***	07/15/10
**MODELOPTs: RegDEFAULT CONC	ELEV		09:11:09
	NODRYDPLT NOWETDPLT		PAGE 6

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*



# Localized NO2 Analysis – Off-Site Unmitigated

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385754.49 3756790.27 0.01698 (07101201) 385775.84 3756790.27 0.01764 (07101201)
385754.49 3756816.96 0.01711 (06121509) 385775.84 3756816.96 0.01785 (06121509)
385754.49 3756843.65 0.02049 (06121509) 385775.84 3756843.65 0.02125 (06121509)
385754.49 3756870.34 0.02390 (05041807) 385775.84 3756870.34 0.02585 (05041807)
385754.49 3756897.03 0.03092 (05041807) 385775.84 3756897.03 0.03305 (05041807)
385799.32 3756329.31 0.03335 (07121809) 385832.26 3756329.31 0.03802 (07121809)
385865.20 3756329.31 0.04166 (07121809) 385898.14 3756329.31 0.04373 (07121809)
385931.08 3756329.31 0.04383 (07121809) 385964.02 3756329.31 0.04836 (05082807)
385996.96 3756329.31 0.05389 (05082807) 386029.90 3756329.31 0.05697 (05082807)
386062.84 3756329.31 0.05703 (05082807) 386095.78 3756329.31 0.05392 (05082807)
386128.72 3756329.31 0.05132 (05060207) 386161.66 3756329.31 0.05656 (05060207)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations *** 07/15/10
*** 09:11:09
*** PAGE 9

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF NOX IN PPM **
X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMDDHH)
- - - - -
386194.60 3756329.31 0.05816 (05060207) 386227.54 3756329.31 0.05764 (05102808)
386260.48 3756329.31 0.05516 (07070306) 386293.42 3756329.31 0.05768 (07070306)
386326.36 3756329.31 0.05695 (06041907) 386359.30 3756329.31 0.05675 (06041907)
386392.24 3756329.31 0.05684 (05110508) 386425.18 3756329.31 0.05600 (06042007)
386458.12 3756329.31 0.05666 (06031508) 386588.30 3756977.75 0.06218 (06051407)
386593.51 3756917.86 0.08062 (06051407) 386606.53 3756857.97 0.06116 (07090907)
386614.34 3756798.08 0.07759 (07090907) 386619.54 3756743.40 0.08074 (05081007)
386632.56 3756691.32 0.06968 (07091107) 386642.98 3756634.04 0.07123 (07030308)
386658.60 3756571.54 0.06552 (07110408) 386663.81 3756519.47 0.05559 (06031408)
386669.02 3756469.99 0.05875 (06031408)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations *** 07/15/10
*** 09:11:09
*** PAGE 10

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
** CONC OF NOX IN PPM **
GROUP ID AVERAGE CONC DATE (YYMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
- - - - -
ALL HIGH 1ST HIGH VALUE IS 0.08074 ON 05081007: AT ( 386619.54, 3756743.40, 0.00, 0.00, 0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations *** 07/15/10
*** 09:11:09
*** PAGE 11

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)
***** FATAL ERROR MESSAGES *****
*** NONE ***
***** WARNING MESSAGES *****
*** NONE ***
*****
*** AERMOD Finishes Successfully ***
*****

```

# Localized NO2 Analysis – Off-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\Mitigated\Off-Site\NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized NO2 Concentrations - Off-Site Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** Source Parameters **
SRCPARAM PAREAL 4.24E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
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# Localized NO2 Analysis – Off-Site Mitigated

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DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
OU FINISHED
*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 *** ** Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated *** 07/15/10
*** *** *** 09:07:48
*** *** *** PAGE 1

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Model Is Setup For Calculation of Average CONcEntration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m
**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR
**This Run Includes: 1 Source(s); 1 Source Group(s); and 99 Receptor(s)
**The Model Assumes A Pollutant Type of: NOX
**Model Set To Continue RUNning After the Setup Testing.
**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours

```

# Localized NO2 Analysis – Off-Site Mitigated

b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 531.50  
 Output Units = PPM

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:07:48  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE /METER**2	LOCATION OF AREA (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.42400E-05	386351.2 3756898.6	0.0	5.00	6	0.00	YES	
*** AERMOD - VERSION 09292 ***			*** Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated						***

07/15/10  
09:07:48  
PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREAL ,  
 \*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:07:48  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, Z-ELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0);	( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0);	( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0);	( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0);	( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0);	( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0);	( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0);	( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0);	( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0);	( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0);	( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0);	( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0);	( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0);	( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0);	( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0);	( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0);	( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0);	( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0);	( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0);	( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0);	( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0);	( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0);	( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0);	( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0);	( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0);	( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0);	( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0);	( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0);	( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0);	( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0);	( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0);	( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0);	( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0);	( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0);	( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0);	( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0);	( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0);	( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0);	( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0);	( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0);	( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0);	( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0);	( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0);	( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0);	( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0);	( 386588.3, 3756977.8, 0.0, 0.0, 0.0);

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:07:48  
 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, Z-ELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0);	( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0);	( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0);	( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0);	( 386663.8, 3756519.5, 0.0, 0.0, 0.0);
( 386669.0, 3756470.0, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      09:07:48  
 PAGE 6

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*





# Localized NO2 Analysis – Off-Site Mitigated

```

385754.49 3756790.27 0.01614 (07101201) 385775.84 3756790.27 0.01676 (07101201)
385754.49 3756816.96 0.01626 (06121509) 385775.84 3756816.96 0.01697 (06121509)
385754.49 3756843.65 0.01948 (06121509) 385775.84 3756843.65 0.02020 (06121509)
385754.49 3756870.34 0.02271 (05041807) 385775.84 3756870.34 0.02457 (05041807)
385754.49 3756897.03 0.02938 (05041807) 385775.84 3756897.03 0.03142 (05041807)
385799.32 3756329.31 0.03170 (07121809) 385832.26 3756329.31 0.03613 (07121809)
385865.20 3756329.31 0.03959 (07121809) 385898.14 3756329.31 0.04156 (07121809)
385931.08 3756329.31 0.04166 (07121809) 385964.02 3756329.31 0.04597 (05082807)
385996.96 3756329.31 0.05122 (05082807) 386029.90 3756329.31 0.05415 (05082807)
386062.84 3756329.31 0.05420 (05082807) 386095.78 3756329.31 0.05125 (05082807)
386128.72 3756329.31 0.04878 (05060207) 386161.66 3756329.31 0.05376 (05060207)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated *** 07/15/10
*** 09:07:48 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF NOX IN PPM **
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
386194.60 3756329.31 0.05528 (05060207) 386227.54 3756329.31 0.05478 (05102808)
386260.48 3756329.31 0.05243 (07070306) 386293.42 3756329.31 0.05482 (07070306)
386326.36 3756329.31 0.05413 (06041907) 386359.30 3756329.31 0.05393 (06041907)
386392.24 3756329.31 0.05402 (05110508) 386425.18 3756329.31 0.05322 (06042007)
386458.12 3756329.31 0.05385 (06031508) 386588.30 3756977.75 0.05910 (06051407)
386593.51 3756917.86 0.07663 (06051407) 386606.53 3756857.97 0.05813 (07090907)
386614.34 3756798.08 0.07375 (07090907) 386619.54 3756743.40 0.07674 (05081007)
386632.56 3756691.32 0.06623 (07091107) 386642.98 3756634.04 0.06770 (07030308)
386658.60 3756571.54 0.06227 (07110408) 386663.81 3756519.47 0.05284 (06031408)
386669.02 3756469.99 0.05584 (06031408)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated *** 07/15/10
*** 09:07:48 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
** CONC OF NOX IN PPM **
GROUP ID AVERAGE CONC DATE (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 0.07674 ON 05081007: AT ( 386619.54, 3756743.40, 0.00, 0.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized NO2 Concentrations - Off-Site Mitigated *** 07/15/10
*** 09:07:48 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT

```

```

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

# Localized PM10 Analysis – Off-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/14/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM10 Concentrations
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM.10
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA1 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.441E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 0.00004701 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
```

# Localized PM10 Analysis – Off-Site Unmitigated

```

DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations      ***      07/14/10
***                                     ***                                     ***      18:44:20
***                                     ***                                     ***      PAGE 1

**MODELOPTS:  RegDEFAULT CONC          ELEV
                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length =      1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates      1 Short Term Average(s) of:      24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      99 Receptor(s)

**The Model Assumes A Pollutant Type of:      PM.10

**Model Set To Continue RUNNING After the Setup Testing.

```

# Localized PM10 Analysis – Off-Site Unmitigated

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM10 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:44:20  
 PAGE 2

\*\*MODELOPTs: RegDFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.24410E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.47010E-04	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM10 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:44:20  
 PAGE 3

\*\*MODELOPTs: RegDFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

ALL PAREAL , PAREA2 ,  
 \*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM10 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:44:20  
 PAGE 4

\*\*MODELOPTs: RegDFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0);	( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0);	( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0);	( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0);	( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0);	( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0);	( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0);	( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0);	( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0);	( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0);	( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0);	( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0);	( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0);	( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0);	( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0);	( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0);	( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0);	( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0);	( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0);	( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0);	( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0);	( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0);	( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0);	( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0);	( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0);	( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0);	( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0);	( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0);	( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0);	( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0);	( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0);	( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0);	( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0);	( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0);	( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0);	( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0);	( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0);	( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0);	( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0);	( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0);	( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0);	( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0);	( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0);	( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0);	( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0);	( 386588.3, 3756977.8, 0.0, 0.0, 0.0);

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM10 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:44:20  
 PAGE 5

\*\*MODELOPTs: RegDFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0);	( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0);	( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0);	( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0);	( 386663.8, 3756519.5, 0.0, 0.0, 0.0);



# Localized PM10 Analysis – Off-Site Unmitigated

```

385754.49 3756576.75 64.91037c (05020624) 385775.84 3756576.75 67.62970c (05020624)
385754.49 3756603.44 67.76522c (05020624) 385775.84 3756603.44 71.02401c (05020624)
385754.49 3756630.13 67.75396c (05020624) 385775.84 3756630.13 71.56391c (05020624)
385754.49 3756656.82 63.53569c (05020624) 385775.84 3756656.82 67.63240c (05020624)
385754.49 3756683.51 55.31888c (05020624) 385775.84 3756683.51 59.24851c (05020624)
385754.49 3756710.20 44.82838c (05020624) 385775.84 3756710.20 48.19690c (05020624)
385754.49 3756736.89 41.80234 (07090624) 385775.84 3756736.89 43.64846 (07090624)
385754.49 3756763.58 47.31810 (07090624) 385775.84 3756763.58 49.31872 (07090624)
385754.49 3756790.27 47.49113 (07090624) 385775.84 3756790.27 49.21475 (07090624)
385754.49 3756816.96 44.49859 (07090624) 385775.84 3756816.96 45.86089 (07090624)
385754.49 3756843.65 40.79728c (07012824) 385775.84 3756843.65 42.12191c (07012824)
385754.49 3756870.34 36.99958c (06121524) 385775.84 3756870.34 38.09357c (06121524)
385754.49 3756897.03 38.98990c (06121524) 385775.84 3756897.03 39.23129c (06121524)
385799.32 3756329.31 61.46109c (07012824) 385832.26 3756329.31 70.86133 (07121824)
385865.20 3756329.31 90.92041 (07121824) 385898.14 3756329.31 108.44189 (07121824)
385931.08 3756329.31 121.26640 (07121824) 385964.02 3756329.31 128.35111 (07121824)
385996.96 3756329.31 130.33834 (07121824) 386029.90 3756329.31 128.23402 (07121824)
386062.84 3756329.31 123.48918 (07121824) 386095.78 3756329.31 115.98390 (07121824)
386128.72 3756329.31 105.31929 (07121824) 386161.66 3756329.31 94.97417 (07121824)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations *** 07/14/10
*** *** *** 18:44:20
*** *** *** PAGE 9

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL , PAREAZ ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF PM.10 IN MICROGRAMS/M**3 **
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
386194.60 3756329.31 101.31855c (05123124) 386227.54 3756329.31 115.26714m (06030924)
386260.48 3756329.31 120.62122m (06030924) 386293.42 3756329.31 123.12341m (06030924)
386326.36 3756329.31 150.40294c (07031224) 386359.30 3756329.31 169.55621c (07031224)
386392.24 3756329.31 180.67226c (07031224) 386425.18 3756329.31 177.12403c (07031224)
386458.12 3756329.31 160.81232c (07121424) 386588.30 3756977.75 267.78527c (05012624)
386593.51 3756917.86 374.66106 (07110824) 386606.53 3756857.97 433.56918c (07090924)
386614.34 3756798.08 471.19394c (05021424) 386619.54 3756743.40 448.31055c (05021424)
386632.56 3756691.32 435.47825 (05081624) 386642.98 3756634.04 373.28372 (05011724)
386658.60 3756571.54 292.98321 (05120324) 386663.81 3756519.47 246.77861 (05111924)
386669.02 3756469.99 247.78234 (05111924)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations *** 07/14/10
*** *** *** 18:44:20
*** *** *** PAGE 10

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
** CONC OF PM.10 IN MICROGRAMS/M**3 **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 471.19394c ON 05021424: AT ( 386614.34, 3756798.08, 0.00, 0.00, 0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations *** 07/14/10
*** *** *** 18:44:20
*** *** *** PAGE 11

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** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)
***** FATAL ERROR MESSAGES *****
*** NONE ***
***** WARNING MESSAGES *****
*** NONE ***
*****
*** AERMOD Finishes Successfully ***
*****

```

# Localized PM10 Analysis – Off-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\Mitigated\Off-Site\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM10 Concentrations - Off-Site Mitigated
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM.10
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.319E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 0.00004701 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
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# Localized PM10 Analysis – Off-Site Mitigated

```

DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated ***      07/15/10
***                               ***                               ***                               ***                               09:00:56
***                               ***                               ***                               ***                               PAGE    1

**MODELOPTs:  RegDEFAULT CONC                      ELEV
                                                       NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      99 Receptor(s)

**The Model Assumes A Pollutant Type of: PM.10

**Model Set To Continue RUNNING After the Setup Testing.

```

# Localized PM10 Analysis – Off-Site Mitigated

```
**Output Options Selected:
  Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
  Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                            m for Missing Hours
                                                            b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
  Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
  Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated ***      07/15/10
***                                     ***                                                                                                     ***      09:00:56
**MODELOPTs: RegDEFAULT CONC                                             ELEV
                                                                NODRYDPLT NOWETDPLT
*** AREAPOLY SOURCE DATA ***
SOURCE      NUMBER EMISSION RATE  LOCATION OF AREA  BASE  RELEASE  NUMBER  INIT.  URBAN  EMISSION RATE
ID          PART.  (GRAMS/SEC  X      Y      ELEV.  HEIGHT  OF VERTS.  SZ     SOURCE  SCALAR VARY
          CATS.  /METER**2)  (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
-----
PAREA1      0      0.23190E-05  386351.2 3756898.6  0.0   5.00   6       0.00   YES
PAREA2      0      0.47010E-04  386351.2 3756898.6  0.0   0.00   6       0.00   YES
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated ***      07/15/10
***                                     ***                                                                                                     ***      09:00:56
**MODELOPTs: RegDEFAULT CONC                                             ELEV
                                                                NODRYDPLT NOWETDPLT
*** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID          SOURCE IDs
ALL               PAREA1 , PAREA2 ,
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated ***      07/15/10
***                                     ***                                                                                                     ***      09:00:56
**MODELOPTs: RegDEFAULT CONC                                             ELEV
                                                                NODRYDPLT NOWETDPLT
*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
( 385804.0, 3756930.9, 0.0, 0.0, 0.0); ( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0); ( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0); ( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0); ( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0); ( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0); ( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0); ( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0); ( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0); ( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0); ( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0); ( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0); ( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0); ( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0); ( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0); ( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0); ( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0); ( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0); ( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0); ( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0); ( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0); ( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0); ( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0); ( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0); ( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0); ( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0); ( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0); ( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0); ( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0); ( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0); ( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0); ( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0); ( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0); ( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0); ( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0); ( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0); ( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0); ( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0); ( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0); ( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0); ( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0); ( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0); ( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0); ( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0); ( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0); ( 386588.3, 3756977.8, 0.0, 0.0, 0.0);
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated ***      07/15/10
***                                     ***                                                                                                     ***      09:00:56
**MODELOPTs: RegDEFAULT CONC                                             ELEV
                                                                NODRYDPLT NOWETDPLT
*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
( 386593.5, 3756917.9, 0.0, 0.0, 0.0); ( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0); ( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0); ( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0); ( 386663.8, 3756519.5, 0.0, 0.0, 0.0);
```



# Localized PM10 Analysis – Off-Site Mitigated

```

385754.49 3756576.75 64.78574c (05020624) 385775.84 3756576.75 67.49901c (05020624)
385754.49 3756603.44 67.64027c (05020624) 385775.84 3756603.44 70.89236c (05020624)
385754.49 3756630.13 67.63130c (05020624) 385775.84 3756630.13 71.43418c (05020624)
385754.49 3756656.82 63.41806c (05020624) 385775.84 3756656.82 67.50764c (05020624)
385754.49 3756683.51 55.20903c (05020624) 385775.84 3756683.51 59.13176c (05020624)
385754.49 3756710.20 44.72870c (05020624) 385775.84 3756710.20 48.09081c (05020624)
385754.49 3756736.89 41.71792 (07090624) 385775.84 3756736.89 43.56015 (07090624)
385754.49 3756763.58 47.22760 (07090624) 385775.84 3756763.58 49.22404 (07090624)
385754.49 3756790.27 47.39927 (07090624) 385775.84 3756790.27 49.11882 (07090624)
385754.49 3756816.96 44.40986 (07090624) 385775.84 3756816.96 45.76851 (07090624)
385754.49 3756843.65 40.72346c (07012824) 385775.84 3756843.65 42.04488c (07012824)
385754.49 3756870.34 36.92932c (06121524) 385775.84 3756870.34 38.02070c (06121524)
385754.49 3756897.03 38.91425c (06121524) 385775.84 3756897.03 39.15332c (06121524)
385799.32 3756329.31 61.34711c (07012824) 385832.26 3756329.31 70.69344 (07121824)
385865.20 3756329.31 90.72427 (07121824) 385898.14 3756329.31 108.21941 (07121824)
385931.08 3756329.31 121.02155 (07121824) 385964.02 3756329.31 128.08922 (07121824)
385996.96 3756329.31 130.06515 (07121824) 386029.90 3756329.31 127.95525 (07121824)
386062.84 3756329.31 123.21066 (07121824) 386095.78 3756329.31 115.71195 (07121824)
386128.72 3756329.31 105.06023 (07121824) 386161.66 3756329.31 94.73285 (07121824)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated *** 07/15/10
*** *** *** 09:00:56
*** *** *** PAGE 9

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL , PAREAZ ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF PM.10 IN MICROGRAMS/M**3 **
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
386194.60 3756329.31 101.09360c (05123124) 386227.54 3756329.31 115.01063m (06030924)
386260.48 3756329.31 120.34468m (06030924) 386293.42 3756329.31 122.84286m (06030924)
386326.36 3756329.31 150.06841c (07031224) 386359.30 3756329.31 169.18189c (07031224)
386392.24 3756329.31 180.28150c (07031224) 386425.18 3756329.31 176.74238c (07031224)
386458.12 3756329.31 160.44732c (07121424) 386588.30 3756977.75 267.22734c (05012624)
386593.51 3756917.86 373.88800 (07110824) 386606.53 3756857.97 432.60615c (07090924)
386614.34 3756798.08 470.12296c (05021424) 386619.54 3756743.40 447.37117c (05021424)
386632.56 3756691.32 434.50114 (05081624) 386642.98 3756634.04 372.41981 (05011724)
386658.60 3756571.54 292.31650 (05120324) 386663.81 3756519.47 246.22665 (05111924)
386669.02 3756469.99 247.24489 (05111924)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated *** 07/15/10
*** *** *** 09:00:56
*** *** *** PAGE 10

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
** CONC OF PM.10 IN MICROGRAMS/M**3 **
GROUP ID AVERAGE CONC DATE (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 470.12296c ON 05021424: AT ( 386614.34, 3756798.08, 0.00, 0.00, 0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM10 Concentrations - Off-Site Mitigated *** 07/15/10
*** *** *** 09:00:56
*** *** *** PAGE 11

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)
***** FATAL ERROR MESSAGES *****
*** NONE ***
***** WARNING MESSAGES *****
*** NONE ***
*****
*** AERMOD Finishes Successfully ***
*****

```

# Localized PM2.5 Analysis – Off-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/14/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaon Downs Localized PM2.5 Concentrations
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.245E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 9.793E-06 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
```

## Localized PM2.5 Analysis – Off-Site Unmitigated

```

DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations      ***      07/14/10
***                               ***                               ***                               ***      18:48:06
***                               ***                               ***                               ***      PAGE    1

**MODELOPTS:  RegDEFAULT CONC                      ELEV
                                                    NOWETDPLT
                                                    NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      99 Receptor(s)

**The Model Assumes A Pollutant Type of: PM2.5

**Model Set To Continue RUNNING After the Setup Testing.

```

# Localized PM2.5 Analysis – Off-Site Unmitigated

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:48:06  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.22450E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.97930E-05	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:48:06  
 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

ALL PAREAL , PAREA2 ,  
 \*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:48:06  
 PAGE 4

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0); ( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0); ( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0); ( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0); ( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0); ( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0); ( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0); ( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0); ( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0); ( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0); ( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0); ( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0); ( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0); ( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0); ( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0); ( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0); ( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0); ( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0); ( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0); ( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0); ( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0); ( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0); ( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0); ( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0); ( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0); ( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0); ( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0); ( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0); ( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0); ( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0); ( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0); ( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0); ( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0); ( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0); ( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0); ( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0); ( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0); ( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0); ( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0); ( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0); ( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0); ( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0); ( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0); ( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0); ( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0); ( 386588.3, 3756977.8, 0.0, 0.0, 0.0);

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations \*\*\* 07/14/10  
 \*\*\* 18:48:06  
 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0); ( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0); ( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0); ( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0); ( 386663.8, 3756519.5, 0.0, 0.0, 0.0);





# Localized PM2.5 Analysis – Off-Site Unmitigated

```

385754.49 3756576.75 15.29581c (05020624) 385775.84 3756576.75 15.94855c (05020624)
385754.49 3756603.44 15.89513c (05020624) 385775.84 3756603.44 16.66928c (05020624)
385754.49 3756630.13 15.86033c (05020624) 385775.84 3756630.13 16.75452c (05020624)
385754.49 3756656.82 14.90981c (05020624) 385775.84 3756656.82 15.86479c (05020624)
385754.49 3756683.51 13.08738c (05020624) 385775.84 3756683.51 14.00435c (05020624)
385754.49 3756710.20 10.75744c (05020624) 385775.84 3756710.20 11.55018c (05020624)
385754.49 3756736.89 9.90978 (07090624) 385775.84 3756736.89 10.34970 (07090624)
385754.49 3756763.58 11.14529 (07090624) 385775.84 3756763.58 11.62147 (07090624)
385754.49 3756790.27 11.20074 (07090624) 385775.84 3756790.27 11.61762 (07090624)
385754.49 3756816.96 10.53276 (07090624) 385775.84 3756816.96 10.86846 (07090624)
385754.49 3756843.65 9.54941c (07012824) 385775.84 3756843.65 9.87125c (07012824)
385754.49 3756870.34 8.72584c (07012824) 385775.84 3756870.34 9.00289c (07070224)
385754.49 3756897.03 9.19896c (06121524) 385775.84 3756897.03 9.33641b (05041824)
385799.32 3756329.31 14.42568c (07012824) 385832.26 3756329.31 17.15127 (07121824)
385865.20 3756329.31 21.73212 (07121824) 385898.14 3756329.31 25.75705 (07121824)
385931.08 3756329.31 28.74703 (07121824) 385964.02 3756329.31 30.46540 (07121824)
385996.96 3756329.31 31.04021 (07121824) 386029.90 3756329.31 30.68131 (07121824)
386062.84 3756329.31 29.68924 (07121824) 386095.78 3756329.31 28.03225 (07121824)
386128.72 3756329.31 25.62711 (07121824) 386161.66 3756329.31 23.21961 (07121824)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations *** 07/14/10
*** 18:48:06 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
PAGE 9

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL , PAREAZ ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF PM2.5 IN MICROGRAMS/M**3 **
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
386194.60 3756329.31 24.30825c (05123124) 386227.54 3756329.31 27.66331m (06030924)
386260.48 3756329.31 29.06362m (06030924) 386293.42 3756329.31 29.64211m (06030924)
386326.36 3756329.31 36.09316c (07031224) 386359.30 3756329.31 40.64944c (07031224)
386392.24 3756329.31 43.19902c (07031224) 386425.18 3756329.31 42.33033c (07031224)
386458.12 3756329.31 38.69530c (07121424) 386588.30 3756977.75 63.72569c (05012624)
386593.51 3756917.86 89.05183 (07110824) 386606.53 3756857.97 104.02741c (07090924)
386614.34 3756798.08 113.40174c (05021424) 386619.54 3756743.40 106.76157c (05021424)
386632.56 3756691.32 104.62547 (05081624) 386642.98 3756634.04 90.05812 (05011724)
386658.60 3756571.54 70.52314 (05120324) 386663.81 3756519.47 59.26472 (05111924)
386669.02 3756469.99 59.26722 (05111924)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations *** 07/14/10
*** 18:48:06 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
PAGE 10

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*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
** CONC OF PM2.5 IN MICROGRAMS/M**3 **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 113.40174c ON 05021424: AT ( 386614.34, 3756798.08, 0.00, 0.00, 0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations *** 07/14/10
*** 18:48:06 ***
**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
PAGE 11

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*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

# Localized PM2.5 Analysis – Off-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\Mitigated\Off-Site\PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM2.5 Concentrations - Mitigated Off-Site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.135E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREAL 9.793E-06 0.000 6 0.000
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREAL2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 385804.01 3756930.88 0.00 0.00
DISCCART 385849.84 3756930.88 0.00 0.00
DISCCART 385895.67 3756930.88 0.00 0.00
DISCCART 385941.50 3756930.88 0.00 0.00
DISCCART 385987.33 3756930.88 0.00 0.00
DISCCART 386033.16 3756930.88 0.00 0.00
DISCCART 386078.99 3756930.88 0.00 0.00
DISCCART 386124.82 3756930.88 0.00 0.00
DISCCART 386170.65 3756930.88 0.00 0.00
DISCCART 386216.48 3756930.88 0.00 0.00
DISCCART 386262.31 3756930.88 0.00 0.00
DISCCART 386308.14 3756930.88 0.00 0.00
DISCCART 386353.97 3756930.88 0.00 0.00
DISCCART 385804.01 3756953.92 0.00 0.00
DISCCART 385849.84 3756953.92 0.00 0.00
DISCCART 385895.67 3756953.92 0.00 0.00
DISCCART 385941.50 3756953.92 0.00 0.00
DISCCART 385987.33 3756953.92 0.00 0.00
DISCCART 386033.16 3756953.92 0.00 0.00
DISCCART 386078.99 3756953.92 0.00 0.00
DISCCART 386124.82 3756953.92 0.00 0.00
DISCCART 386170.65 3756953.92 0.00 0.00
DISCCART 386216.48 3756953.92 0.00 0.00
DISCCART 386262.31 3756953.92 0.00 0.00
DISCCART 386308.14 3756953.92 0.00 0.00
DISCCART 386353.97 3756953.92 0.00 0.00
DISCCART 385754.49 3756363.23 0.00 0.00
DISCCART 385775.84 3756363.23 0.00 0.00
DISCCART 385754.49 3756389.92 0.00 0.00
DISCCART 385775.84 3756389.92 0.00 0.00
DISCCART 385754.49 3756416.61 0.00 0.00
DISCCART 385775.84 3756416.61 0.00 0.00
DISCCART 385754.49 3756443.30 0.00 0.00
DISCCART 385775.84 3756443.30 0.00 0.00
DISCCART 385754.49 3756469.99 0.00 0.00
DISCCART 385775.84 3756469.99 0.00 0.00
DISCCART 385754.49 3756496.68 0.00 0.00
DISCCART 385775.84 3756496.68 0.00 0.00
DISCCART 385754.49 3756523.37 0.00 0.00
DISCCART 385775.84 3756523.37 0.00 0.00
DISCCART 385754.49 3756550.06 0.00 0.00
DISCCART 385775.84 3756550.06 0.00 0.00
DISCCART 385754.49 3756576.75 0.00 0.00
DISCCART 385775.84 3756576.75 0.00 0.00
DISCCART 385754.49 3756603.44 0.00 0.00
DISCCART 385775.84 3756603.44 0.00 0.00
DISCCART 385754.49 3756630.13 0.00 0.00
DISCCART 385775.84 3756630.13 0.00 0.00
DISCCART 385754.49 3756656.82 0.00 0.00
DISCCART 385775.84 3756656.82 0.00 0.00
DISCCART 385754.49 3756683.51 0.00 0.00
DISCCART 385775.84 3756683.51 0.00 0.00
DISCCART 385754.49 3756710.20 0.00 0.00
DISCCART 385775.84 3756710.20 0.00 0.00
DISCCART 385754.49 3756736.89 0.00 0.00
```

# Localized PM2.5 Analysis – Off-Site Mitigated

```

DISCCART 385775.84 3756736.89 0.00 0.00
DISCCART 385754.49 3756763.58 0.00 0.00
DISCCART 385775.84 3756763.58 0.00 0.00
DISCCART 385754.49 3756790.27 0.00 0.00
DISCCART 385775.84 3756790.27 0.00 0.00
DISCCART 385754.49 3756816.96 0.00 0.00
DISCCART 385775.84 3756816.96 0.00 0.00
DISCCART 385754.49 3756843.65 0.00 0.00
DISCCART 385775.84 3756843.65 0.00 0.00
DISCCART 385754.49 3756870.34 0.00 0.00
DISCCART 385775.84 3756870.34 0.00 0.00
DISCCART 385754.49 3756897.03 0.00 0.00
DISCCART 385775.84 3756897.03 0.00 0.00
DISCCART 385799.32 3756329.31 0.00 0.00
DISCCART 385832.26 3756329.31 0.00 0.00
DISCCART 385865.20 3756329.31 0.00 0.00
DISCCART 385898.14 3756329.31 0.00 0.00
DISCCART 385931.08 3756329.31 0.00 0.00
DISCCART 385964.02 3756329.31 0.00 0.00
DISCCART 385996.96 3756329.31 0.00 0.00
DISCCART 386029.90 3756329.31 0.00 0.00
DISCCART 386062.84 3756329.31 0.00 0.00
DISCCART 386095.78 3756329.31 0.00 0.00
DISCCART 386128.72 3756329.31 0.00 0.00
DISCCART 386161.66 3756329.31 0.00 0.00
DISCCART 386194.60 3756329.31 0.00 0.00
DISCCART 386227.54 3756329.31 0.00 0.00
DISCCART 386260.48 3756329.31 0.00 0.00
DISCCART 386293.42 3756329.31 0.00 0.00
DISCCART 386326.36 3756329.31 0.00 0.00
DISCCART 386359.30 3756329.31 0.00 0.00
DISCCART 386392.24 3756329.31 0.00 0.00
DISCCART 386425.18 3756329.31 0.00 0.00
DISCCART 386458.12 3756329.31 0.00 0.00
** DESCRREC ** **
DISCCART 386588.30 3756977.75 0.00 0.00
DISCCART 386593.51 3756917.86 0.00 0.00
DISCCART 386606.53 3756857.97 0.00 0.00
DISCCART 386614.34 3756798.08 0.00 0.00
DISCCART 386619.54 3756743.40 0.00 0.00
DISCCART 386632.56 3756691.32 0.00 0.00
DISCCART 386642.98 3756634.04 0.00 0.00
DISCCART 386658.60 3756571.54 0.00 0.00
DISCCART 386663.81 3756519.47 0.00 0.00
DISCCART 386669.02 3756469.99 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site ***      07/15/10
***                               ***                               ***                               ***      08:55:40
***                               ***                               ***                               ***      PAGE    1

**MODELOPTS:  RegDEFAULT CONC                      ELEV
                                                    NOWETDPLT
***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length =      1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      99 Receptor(s)

**The Model Assumes A Pollutant Type of: PM2.5

**Model Set To Continue RUNNING After the Setup Testing.

```

# Localized PM2.5 Analysis – Off-Site Mitigated

**\*\*Output Options Selected:**

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**\*\*NOTE:** The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and Missing Hours

**\*\*Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

**\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.**

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site \*\*\* 07/15/10  
 \*\*\* 08:55:40  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.21350E-05	386351.2 3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.97930E-05	386351.2 3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site \*\*\* 07/15/10  
 \*\*\* 08:55:40  
 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

ALL PAREAL , PAREA2 ,  
 \*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site \*\*\* 07/15/10  
 \*\*\* 08:55:40  
 PAGE 4

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 385804.0, 3756930.9, 0.0, 0.0, 0.0);	( 385849.8, 3756930.9, 0.0, 0.0, 0.0);
( 385895.7, 3756930.9, 0.0, 0.0, 0.0);	( 385941.5, 3756930.9, 0.0, 0.0, 0.0);
( 385987.3, 3756930.9, 0.0, 0.0, 0.0);	( 386033.2, 3756930.9, 0.0, 0.0, 0.0);
( 386079.0, 3756930.9, 0.0, 0.0, 0.0);	( 386124.8, 3756930.9, 0.0, 0.0, 0.0);
( 386170.6, 3756930.9, 0.0, 0.0, 0.0);	( 386216.5, 3756930.9, 0.0, 0.0, 0.0);
( 386262.3, 3756930.9, 0.0, 0.0, 0.0);	( 386308.1, 3756930.9, 0.0, 0.0, 0.0);
( 386354.0, 3756930.9, 0.0, 0.0, 0.0);	( 385804.0, 3756953.9, 0.0, 0.0, 0.0);
( 385849.8, 3756953.9, 0.0, 0.0, 0.0);	( 385895.7, 3756953.9, 0.0, 0.0, 0.0);
( 385941.5, 3756953.9, 0.0, 0.0, 0.0);	( 385987.3, 3756953.9, 0.0, 0.0, 0.0);
( 386033.2, 3756953.9, 0.0, 0.0, 0.0);	( 386079.0, 3756953.9, 0.0, 0.0, 0.0);
( 386124.8, 3756953.9, 0.0, 0.0, 0.0);	( 386170.6, 3756953.9, 0.0, 0.0, 0.0);
( 386216.5, 3756953.9, 0.0, 0.0, 0.0);	( 386262.3, 3756953.9, 0.0, 0.0, 0.0);
( 386308.1, 3756953.9, 0.0, 0.0, 0.0);	( 386354.0, 3756953.9, 0.0, 0.0, 0.0);
( 385754.5, 3756363.2, 0.0, 0.0, 0.0);	( 385775.8, 3756363.2, 0.0, 0.0, 0.0);
( 385754.5, 3756389.9, 0.0, 0.0, 0.0);	( 385775.8, 3756389.9, 0.0, 0.0, 0.0);
( 385754.5, 3756416.6, 0.0, 0.0, 0.0);	( 385775.8, 3756416.6, 0.0, 0.0, 0.0);
( 385754.5, 3756443.3, 0.0, 0.0, 0.0);	( 385775.8, 3756443.3, 0.0, 0.0, 0.0);
( 385754.5, 3756470.0, 0.0, 0.0, 0.0);	( 385775.8, 3756470.0, 0.0, 0.0, 0.0);
( 385754.5, 3756496.7, 0.0, 0.0, 0.0);	( 385775.8, 3756496.7, 0.0, 0.0, 0.0);
( 385754.5, 3756523.4, 0.0, 0.0, 0.0);	( 385775.8, 3756523.4, 0.0, 0.0, 0.0);
( 385754.5, 3756550.1, 0.0, 0.0, 0.0);	( 385775.8, 3756550.1, 0.0, 0.0, 0.0);
( 385754.5, 3756576.8, 0.0, 0.0, 0.0);	( 385775.8, 3756576.8, 0.0, 0.0, 0.0);
( 385754.5, 3756603.4, 0.0, 0.0, 0.0);	( 385775.8, 3756603.4, 0.0, 0.0, 0.0);
( 385754.5, 3756630.1, 0.0, 0.0, 0.0);	( 385775.8, 3756630.1, 0.0, 0.0, 0.0);
( 385754.5, 3756656.8, 0.0, 0.0, 0.0);	( 385775.8, 3756656.8, 0.0, 0.0, 0.0);
( 385754.5, 3756683.5, 0.0, 0.0, 0.0);	( 385775.8, 3756683.5, 0.0, 0.0, 0.0);
( 385754.5, 3756710.2, 0.0, 0.0, 0.0);	( 385775.8, 3756710.2, 0.0, 0.0, 0.0);
( 385754.5, 3756736.9, 0.0, 0.0, 0.0);	( 385775.8, 3756736.9, 0.0, 0.0, 0.0);
( 385754.5, 3756763.6, 0.0, 0.0, 0.0);	( 385775.8, 3756763.6, 0.0, 0.0, 0.0);
( 385754.5, 3756790.3, 0.0, 0.0, 0.0);	( 385775.8, 3756790.3, 0.0, 0.0, 0.0);
( 385754.5, 3756817.0, 0.0, 0.0, 0.0);	( 385775.8, 3756817.0, 0.0, 0.0, 0.0);
( 385754.5, 3756843.6, 0.0, 0.0, 0.0);	( 385775.8, 3756843.6, 0.0, 0.0, 0.0);
( 385754.5, 3756870.3, 0.0, 0.0, 0.0);	( 385775.8, 3756870.3, 0.0, 0.0, 0.0);
( 385754.5, 3756897.0, 0.0, 0.0, 0.0);	( 385775.8, 3756897.0, 0.0, 0.0, 0.0);
( 385799.3, 3756329.3, 0.0, 0.0, 0.0);	( 385832.3, 3756329.3, 0.0, 0.0, 0.0);
( 385865.2, 3756329.3, 0.0, 0.0, 0.0);	( 385898.1, 3756329.3, 0.0, 0.0, 0.0);
( 385931.1, 3756329.3, 0.0, 0.0, 0.0);	( 385964.0, 3756329.3, 0.0, 0.0, 0.0);
( 385997.0, 3756329.3, 0.0, 0.0, 0.0);	( 386029.9, 3756329.3, 0.0, 0.0, 0.0);
( 386062.8, 3756329.3, 0.0, 0.0, 0.0);	( 386095.8, 3756329.3, 0.0, 0.0, 0.0);
( 386128.7, 3756329.3, 0.0, 0.0, 0.0);	( 386161.7, 3756329.3, 0.0, 0.0, 0.0);
( 386194.6, 3756329.3, 0.0, 0.0, 0.0);	( 386227.5, 3756329.3, 0.0, 0.0, 0.0);
( 386260.5, 3756329.3, 0.0, 0.0, 0.0);	( 386293.4, 3756329.3, 0.0, 0.0, 0.0);
( 386326.4, 3756329.3, 0.0, 0.0, 0.0);	( 386359.3, 3756329.3, 0.0, 0.0, 0.0);
( 386392.2, 3756329.3, 0.0, 0.0, 0.0);	( 386425.2, 3756329.3, 0.0, 0.0, 0.0);
( 386458.1, 3756329.3, 0.0, 0.0, 0.0);	( 386588.3, 3756977.8, 0.0, 0.0, 0.0);

\*\*\* AERMOD - VERSION 09292 \*\*\* Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site \*\*\* 07/15/10  
 \*\*\* 08:55:40  
 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386593.5, 3756917.9, 0.0, 0.0, 0.0);	( 386606.5, 3756858.0, 0.0, 0.0, 0.0);
( 386614.3, 3756798.1, 0.0, 0.0, 0.0);	( 386619.5, 3756743.4, 0.0, 0.0, 0.0);
( 386632.6, 3756691.3, 0.0, 0.0, 0.0);	( 386643.0, 3756634.0, 0.0, 0.0, 0.0);
( 386658.6, 3756571.5, 0.0, 0.0, 0.0);	( 386663.8, 3756519.5, 0.0, 0.0, 0.0);

**Localized PM2.5 Analysis – Off-Site Mitigated**

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( 386669.0, 3756470.0, 0.0, 0.0, 0.0);
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site ***      07/15/10
***                                                                ***                                                                08:55:40
                                                                ***                                                                ***                                                                PAGE    6
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**MODELOPTs:  RegDEFAULT CONC      ELEV
                                         NODRYDPLT NOWETDPLT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
      (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
      (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80.
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site ***      07/15/10
***                                                                ***                                                                08:55:40
                                                                ***                                                                ***                                                                PAGE    7
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**MODELOPTs:  RegDEFAULT CONC      ELEV
                                         NODRYDPLT NOWETDPLT

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC      Met Version: 06341
Profile file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:      0          Upper air station no.:      3190
Name: UNKNOWNN          Name: UNKNOWNN
Year: 2005              Year: 2005
```

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	M*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	ZO	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
05	01	01	1	01	-0.3	0.021	-9.000	-9.000	-9.000	-9.000	7.	2.8	0.51	1.00	1.00	0.30	337.	9.1	281.4	5.5	5.5	
05	01	01	1	02	-0.3	0.020	-9.000	-9.000	-9.000	-9.000	6.	2.3	0.51	1.00	1.00	0.28	317.	9.1	281.4	5.5	5.5	
05	01	01	1	03	-0.3	0.021	-9.000	-9.000	-9.000	-9.000	7.	2.3	0.51	1.00	1.00	0.30	338.	9.1	280.9	5.5	5.5	
05	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	280.4	5.5	5.5	
05	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	279.9	5.5	5.5	
05	01	01	1	06	-0.3	0.020	-9.000	-9.000	-9.000	-9.000	6.	2.2	0.51	1.00	1.00	0.28	313.	9.1	279.9	5.5	5.5	
05	01	01	1	07	-0.3	0.020	-9.000	-9.000	-9.000	-9.000	6.	2.3	0.51	1.00	1.00	0.28	328.	9.1	279.2	5.5	5.5	
05	01	01	1	08	21.4	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	0.54	0.00	0.	9.1	279.9	5.5	5.5	
05	01	01	1	09	43.1	0.107	-9.000	-9.000	-9.000	-9.000	80.	-2.5	0.51	1.00	0.32	0.40	9.	9.1	282.5	5.5	5.5	
05	01	01	1	10	110.9	0.238	-9.000	-9.000	-9.000	-9.000	266.	-10.9	0.51	1.00	0.24	1.20	58.	9.1	285.4	5.5	5.5	
05	01	01	1	11	135.8	0.203	-9.000	-9.000	-9.000	-9.000	211.	-5.6	0.51	1.00	0.21	0.90	45.	9.1	287.5	5.5	5.5	
05	01	01	1	12	14.0	0.119	-9.000	-9.000	-9.000	-9.000	96.	-10.8	0.51	1.00	0.20	0.60	204.	9.1	285.9	5.5	5.5	
05	01	01	1	13	27.0	0.205	-9.000	-9.000	-9.000	-9.000	213.	-28.8	0.51	1.00	0.20	1.20	154.	9.1	286.4	5.5	5.5	
05	01	01	1	14	17.0	0.160	-9.000	-9.000	-9.000	-9.000	147.	-21.7	0.51	1.00	0.21	0.90	203.	9.1	286.4	5.5	5.5	
05	01	01	1	15	3.8	0.063	-9.000	-9.000	-9.000	-9.000	41.	-6.0	0.51	1.00	0.24	0.28	231.	9.1	286.4	5.5	5.5	
05	01	01	1	16	0.1	0.085	-9.000	-9.000	-9.000	-9.000	57.	-549.9	0.51	1.00	0.33	0.60	222.	9.1	285.9	5.5	5.5	
05	01	01	1	17	-0.3	0.021	-9.000	-9.000	-9.000	-9.000	10.	2.5	0.51	1.00	0.60	0.30	197.	9.1	285.9	5.5	5.5	
05	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	285.4	5.5	5.5	
05	01	01	1	19	-0.2	0.020	-9.000	-9.000	-9.000	-9.000	6.	3.1	0.51	1.00	1.00	0.28	264.	9.1	284.9	5.5	5.5	
05	01	01	1	20	-0.3	0.021	-9.000	-9.000	-9.000	-9.000	7.	2.3	0.51	1.00	1.00	0.30	256.	9.1	284.2	5.5	5.5	
05	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.8	5.5	5.5	
05	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5	5.5	
05	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5	5.5	
05	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-9.000	-9.000	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	282.0	5.5	5.5	

```
First hour of profile data
YR MO DY HR HEIGHT F WDIR      WSPD  AMB_TMP  sigmaA  sigmaW  sigmaV
05 01 01 01      5.5 0 -999.  -99.00  281.5  99.0 -99.00 -99.00
05 01 01 01      9.1 1 337.    0.30  -999.0  99.0 -99.00 -99.00
```

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F indicates top of profile (=1) or below (=0)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site ***      07/15/10
***                                                                ***                                                                08:55:40
                                                                ***                                                                ***                                                                PAGE    8
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**MODELOPTs:  RegDEFAULT CONC      ELEV
                                         NODRYDPLT NOWETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      PAREAL , PAREA2 ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM2.5      IN MICROGRAMS/M**3      **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
385804.01	3756930.88	15.30187b	(05041824)	385849.84	3756930.88	16.92922b	(05041824)
385895.67	3756930.88	17.88550b	(05041824)	385941.50	3756930.88	18.31806b	(05041824)
385987.33	3756930.88	18.69403b	(05041824)	386033.16	3756930.88	20.41660b	(05041824)
386078.99	3756930.88	26.42171b	(05041824)	386124.82	3756930.88	36.55844b	(05041824)
386170.65	3756930.88	44.14293b	(05041824)	386216.48	3756930.88	46.26575b	(05041824)
386262.31	3756930.88	56.43354b	(05041824)	386308.14	3756930.88	87.60855b	(05041824)
386353.97	3756930.88	110.86882b	(05041824)	386400.01	3756953.92	16.89205b	(05041824)
386445.63	3756953.92	17.67980b	(05041824)	386496.67	3756953.92	18.03542b	(05041824)
386537.29	3756953.92	18.26544b	(05041824)	386588.33	3756953.92	18.93812b	(05041824)
386628.95	3756953.92	21.89785b	(05041824)	386680.00	3756953.92	28.51390b	(05041824)
386720.61	3756953.92	37.04854b	(05041824)	386771.66	3756953.92	41.02707b	(05041824)
386812.27	3756953.92	43.37710b	(05041824)	386863.32	3756953.92	54.93758b	(05041824)
386903.93	3756953.92	81.83265b	(05041824)	386954.98	3756953.92	83.25787b	(05041824)
387000.00	3756363.23	9.71610c	(06041124)	387046.64	3756363.23	11.00429c	(07012824)
387096.66	3756389.92	10.26151c	(06010124)	387138.30	3756389.92	10.36099c	(06041124)
387192.82	3756416.61	10.69743c	(06010124)	387230.00	3756416.61	11.05346c	(06010124)
387288.98	3756443.30	12.74383c	(05102524)	387321.66	3756443.30	12.11041c	(05102524)
387385.14	3756469.99	14.26232c	(05102524)	387413.32	3756469.99	14.00178c	(05102524)
387481.30	3756496.68	14.38531c	(05102524)	387504.98	3756496.68	14.71433c	(05102524)
387577.46	3756523.37	13.40186c	(05020624)	387596.64	3756523.37	13.80526c	(05020624)
387673.62	3756550.06	14.32309c	(05020624)	387688.30	3756550.06	14.86353c	(05020624)

# Localized PM2.5 Analysis – Off-Site Mitigated

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385754.49 3756576.75 15.18345c (05020624) 385775.84 3756576.75 15.83072c (05020624)
385754.49 3756603.44 15.78247c (05020624) 385775.84 3756603.44 16.55059c (05020624)
385754.49 3756630.13 15.74973c (05020624) 385775.84 3756630.13 16.63755c (05020624)
385754.49 3756656.82 14.80375c (05020624) 385775.84 3756656.82 15.75230c (05020624)
385754.49 3756683.51 12.98834c (05020624) 385775.84 3756683.51 13.89908c (05020624)
385754.49 3756710.20 10.66756c (05020624) 385775.84 3756710.20 11.45453c (05020624)
385754.49 3756736.89 9.83366 (07090624) 385775.84 3756736.89 10.27008 (07090624)
385754.49 3756763.58 11.06369 (07090624) 385775.84 3756763.58 11.53611 (07090624)
385754.49 3756790.27 11.11791 (07090624) 385775.84 3756790.27 11.53113 (07090624)
385754.49 3756816.96 10.45276 (07090624) 385775.84 3756816.96 10.78517 (07090624)
385754.49 3756843.65 9.48286c (07012824) 385775.84 3756843.65 9.80179c (07012824)
385754.49 3756870.34 8.65984c (07012824) 385775.84 3756870.34 8.93282c (07012824)
385754.49 3756897.03 9.13076c (06121524) 385775.84 3756897.03 9.24880b (05041824)
385799.32 3756329.31 14.32292c (07012824) 385832.26 3756329.31 16.99990 (07121824)
385865.20 3756329.31 21.55527 (07121824) 385898.14 3756329.31 25.55645 (07121824)
385931.08 3756329.31 28.52626 (07121824) 385964.02 3756329.31 30.22927 (07121824)
385996.96 3756329.31 30.79389 (07121824) 386029.90 3756329.31 30.42996 (07121824)
386062.84 3756329.31 29.43811 (07121824) 386095.78 3756329.31 27.78705 (07121824)
386128.72 3756329.31 25.39354 (07121824) 386161.66 3756329.31 23.00202 (07121824)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site *** 07/15/10
*** *** 08:55:40
*** *** PAGE 9

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREAL , PAREAZ ,
*** DISCRETE CARTESIAN RECEPTOR POINTS ***
** CONC OF PM2.5 IN MICROGRAMS/M**3 **
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
-----
386194.60 3756329.31 24.10543c (05123124) 386227.54 3756329.31 27.43202m (06030924)
386260.48 3756329.31 28.81428m (06030924) 386293.42 3756329.31 29.38914m (06030924)
386326.36 3756329.31 35.79153c (07031224) 386359.30 3756329.31 40.31194c (07031224)
386392.24 3756329.31 42.84670c (07031224) 386425.18 3756329.31 41.98621c (07031224)
386458.12 3756329.31 38.36620c (07121424) 386588.30 3756977.75 63.22264c (05012624)
386593.51 3756917.86 88.35481 (07110824) 386606.53 3756857.97 103.15910c (07090924)
386614.34 3756798.08 112.43611c (05021424) 386619.54 3756743.40 105.91460c (05021424)
386632.56 3756691.32 103.74447 (05081624) 386642.98 3756634.04 89.27918 (05011724)
386658.60 3756571.54 69.92201 (05120324) 386663.81 3756519.47 58.76704 (05111924)
386669.02 3756469.99 58.78264 (05111924)
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site *** 07/15/10
*** *** 08:55:40
*** *** PAGE 10

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```

**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
** CONC OF PM2.5 IN MICROGRAMS/M**3 **
GROUP ID AVERAGE CONC DATE RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE NETWORK GRID-ID
-----
ALL HIGH 1ST HIGH VALUE IS 112.43611c ON 05021424: AT ( 386614.34, 3756798.08, 0.00, 0.00, 0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 *** *** Jordaon Downs Localized PM2.5 Concentrations - Mitigated Off-Site *** 07/15/10
*** *** 08:55:40
*** *** PAGE 11

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**MODELOPTs: RegDEFAULT CONC ELEV
NODRYDPLT NOWETDPLT
*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 3086 Informational Message(s)
A Total of 26280 Hours Were Processed
A Total of 2622 Calm Hours Identified
A Total of 464 Missing Hours Identified ( 1.77 Percent)
***** FATAL ERROR MESSAGES *****
*** NONE ***
***** WARNING MESSAGES *****
*** NONE ***
*****
*** AERMOD Finishes Successfully ***
*****

```

# Localized CO Analysis – On-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Unmitigated\CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized CO Concentrations - Unmitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
** Source Parameters **
SRCPARAM PAREAL 0.00002137 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
```

# Localized CO Analysis – On-Site Unmitigated

```

DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized CO Concentrations - Unmitigated On-site    ***    07/15/10
***                               ***                               ***                               ***    13:24:22
***                               ***                               ***                               ***    PAGE 1

**MODELOPTs: RegDEFAULT CONC                                ELEV
                                                         NOWETDPLT
*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 1 Source(s); 1 Source Group(s); and 85 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 873.20
Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized CO Concentrations - Unmitigated On-site    ***    07/15/10
***                               ***                               ***                               ***    13:24:22
***                               ***                               ***                               ***    PAGE 2

**MODELOPTs: RegDEFAULT CONC                                ELEV

```



# Localized CO Analysis – On-Site Unmitigated

NODRYDPLT NOWETDPLT

### \*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. (USER UNITS CATS.)	EMISSION RATE (/METER**2)	LOCATION OF AREA X (METERS) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	
PAREAL	0	0.21370E-04	386351.2 3756898.6	0.0	5.00	6	0.00	YES		
*** AERMOD - VERSION 09292 ***			*** Jordaon Downs Localized CO Concentrations - Unmitigated On-site ***						***	07/15/10 13:24:22 PAGE 3
**MODELOPTs:	RegDEFAULT	CONC		ELEV						

### \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs	
ALL	PAREAL	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized CO Concentrations - Unmitigated On-site ***	07/15/10 13:24:22 PAGE 4
**MODELOPTs:	RegDEFAULT	CONC
	ELEV	

### \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)	(METERS)	
( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);	
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);	
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);	
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);	
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);	
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);	
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);	
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);	
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);	
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);	
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);	
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);	
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);	
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);	
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);	
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);	
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);	
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);	
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);	
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);	
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);	
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);	
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);	
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);	
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);	
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);	
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);	
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);	
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);	
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);	
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);	
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);	
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);	
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);	
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);	
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);	
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);	
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);	
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);	
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);	
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);	
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);	
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);		*** 07/15/10 13:24:22 PAGE 5
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized CO Concentrations - Unmitigated On-site ***	
**MODELOPTs:	RegDEFAULT	CONC
	ELEV	

### \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*

(1=YES; 0=NO)	
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

### \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)	
1.54, 3.09, 5.14, 8.23, 10.80,	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized CO Concentrations - Unmitigated On-site ***
**MODELOPTs:	RegDEFAULT
	CONC
	ELEV

### \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341  
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL



Localized CO Analysis – On-Site Unmitigated

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Unmitigated On-site \*\*\* 07/15/10 13:24:22 PAGE 9

Table with columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Includes header information: ELEV, NODRYDPLT, NOWETDPLT, and discrete Cartesian receptor points.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Unmitigated On-site \*\*\* 07/15/10 13:24:22 PAGE 10

Table with columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Includes header information: ELEV, NODRYDPLT, NOWETDPLT, and discrete Cartesian receptor points.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Unmitigated On-site \*\*\* 07/15/10 13:24:22 PAGE 11

Table with columns: GROUP ID, AVERAGE CONC, DATE (YYMMDDHH), RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG), OF TYPE, NETWORK GRID-ID. Includes header information: ELEV, NODRYDPLT, NOWETDPLT, and summary of highest 1-HR results.

\*\*\* RECEPTOR TYPES: GC = GRIDCART, GP = GRIDPOLR, DC = DISCCART, DP = DISCPOLR. Summary of highest 1-HR results for ALL HIGH 1ST HIGH VALUE IS at receptor 386292.51, 3756655.11, 0.00, 0.00, 0.00 DC.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Unmitigated On-site \*\*\* 07/15/10 13:24:22 PAGE 12

Table with columns: GROUP ID, AVERAGE CONC, DATE (YYMMDDHH), RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG), OF TYPE, NETWORK GRID-ID. Includes header information: ELEV, NODRYDPLT, NOWETDPLT, and summary of highest 8-HR results.

\*\*\* RECEPTOR TYPES: GC = GRIDCART. Summary of highest 8-HR results for ALL HIGH 1ST HIGH VALUE IS at receptor 386327.29, 3756902.07, 0.00, 0.00, 0.00 DC.

# Localized CO Analysis – On-Site Unmitigated

```
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Jordaon Downs Localized CO Concentrations - Unmitigated On-site ***
***                                     ***                                     ***                                     ***
**MODELOPTs:  RegDEFAULT CONC                                     ELEV
                                                         NODRYDPLT NOWETDPLT

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of        3086 Informational Message(s)

A Total of        26280 Hours Were Processed
A Total of         2622 Calm Hours Identified
A Total of          464 Missing Hours Identified ( 1.77 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*****
*** AERMOD Finishes Successfully ***
*****
```

07/15/10  
13:24:22  
PAGE 13

# Localized CO Analysis – On-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Mitigated\CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
**
CO STARTING
TITLEONE Jordaan Downs Localized CO Concentrations - Mitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1 8
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
** Source Parameters **
SRCPARAM PAREAL 0.00002137 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 873.2 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
```

# Localized CO Analysis – On-Site Mitigated

```
DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized CO Concentrations - Mitigated On-site    ***    07/15/10
***                               ***                               ***                               ***    13:14:37
***                               ***                               ***                               ***    PAGE 1

**MODELOPTs: RegDEFAULT CONC                                ELEV
                                                         NOWETDPLT
*** MODEL SETUP OPTIONS SUMMARY ***
-----

**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 1 Source(s); 1 Source Group(s); and 85 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 873.20
Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized CO Concentrations - Mitigated On-site    ***    07/15/10
***                               ***                               ***                               ***    13:14:37
***                               ***                               ***                               ***    PAGE 2

**MODELOPTs: RegDEFAULT CONC                                ELEV
```

# Localized CO Analysis – On-Site Mitigated

NODRYDPLT NOWETDPLT

### \*\*\* AREA POLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. (USER UNITS CATS.)	EMISSION RATE (/METER**2)	LOCATION OF AREA X (METERS) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	
PAREAL	0	0.21370E-04	386351.2 3756898.6	0.0	5.00	6	0.00	YES		
*** AERMOD - VERSION 09292 ***			*** Jordaon Downs Localized CO Concentrations - Mitigated On-site						***	07/15/10 13:14:37 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

### \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs	
ALL	PAREAL	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized CO Concentrations - Mitigated On-site	***
**MODELOPTs: RegDEFAULT CONC		

ELEV  
NODRYDPLT NOWETDPLT

### \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 386188.2, 3756353.3,	0.0,	0.0,	0.0);	( 386223.0, 3756353.3,	0.0,	0.0,	0.0);
( 386257.7, 3756353.3,	0.0,	0.0,	0.0);	( 386292.5, 3756353.3,	0.0,	0.0,	0.0);
( 386327.3, 3756353.3,	0.0,	0.0,	0.0);	( 386188.2, 3756380.7,	0.0,	0.0,	0.0);
( 386223.0, 3756380.7,	0.0,	0.0,	0.0);	( 386257.7, 3756380.7,	0.0,	0.0,	0.0);
( 386292.5, 3756380.7,	0.0,	0.0,	0.0);	( 386327.3, 3756380.7,	0.0,	0.0,	0.0);
( 386188.2, 3756408.1,	0.0,	0.0,	0.0);	( 386223.0, 3756408.1,	0.0,	0.0,	0.0);
( 386257.7, 3756408.1,	0.0,	0.0,	0.0);	( 386292.5, 3756408.1,	0.0,	0.0,	0.0);
( 386327.3, 3756408.1,	0.0,	0.0,	0.0);	( 386188.2, 3756435.6,	0.0,	0.0,	0.0);
( 386223.0, 3756435.6,	0.0,	0.0,	0.0);	( 386257.7, 3756435.6,	0.0,	0.0,	0.0);
( 386292.5, 3756435.6,	0.0,	0.0,	0.0);	( 386327.3, 3756435.6,	0.0,	0.0,	0.0);
( 386188.2, 3756463.0,	0.0,	0.0,	0.0);	( 386223.0, 3756463.0,	0.0,	0.0,	0.0);
( 386257.7, 3756463.0,	0.0,	0.0,	0.0);	( 386292.5, 3756463.0,	0.0,	0.0,	0.0);
( 386327.3, 3756463.0,	0.0,	0.0,	0.0);	( 386188.2, 3756490.5,	0.0,	0.0,	0.0);
( 386223.0, 3756490.5,	0.0,	0.0,	0.0);	( 386257.7, 3756490.5,	0.0,	0.0,	0.0);
( 386292.5, 3756490.5,	0.0,	0.0,	0.0);	( 386327.3, 3756490.5,	0.0,	0.0,	0.0);
( 386188.2, 3756517.9,	0.0,	0.0,	0.0);	( 386223.0, 3756517.9,	0.0,	0.0,	0.0);
( 386257.7, 3756517.9,	0.0,	0.0,	0.0);	( 386292.5, 3756517.9,	0.0,	0.0,	0.0);
( 386327.3, 3756517.9,	0.0,	0.0,	0.0);	( 386188.2, 3756545.3,	0.0,	0.0,	0.0);
( 386223.0, 3756545.3,	0.0,	0.0,	0.0);	( 386257.7, 3756545.3,	0.0,	0.0,	0.0);
( 386292.5, 3756545.3,	0.0,	0.0,	0.0);	( 386327.3, 3756545.3,	0.0,	0.0,	0.0);
( 386188.2, 3756572.8,	0.0,	0.0,	0.0);	( 386223.0, 3756572.8,	0.0,	0.0,	0.0);
( 386257.7, 3756572.8,	0.0,	0.0,	0.0);	( 386292.5, 3756572.8,	0.0,	0.0,	0.0);
( 386327.3, 3756572.8,	0.0,	0.0,	0.0);	( 386188.2, 3756600.2,	0.0,	0.0,	0.0);
( 386223.0, 3756600.2,	0.0,	0.0,	0.0);	( 386257.7, 3756600.2,	0.0,	0.0,	0.0);
( 386292.5, 3756600.2,	0.0,	0.0,	0.0);	( 386327.3, 3756600.2,	0.0,	0.0,	0.0);
( 386188.2, 3756627.7,	0.0,	0.0,	0.0);	( 386223.0, 3756627.7,	0.0,	0.0,	0.0);
( 386257.7, 3756627.7,	0.0,	0.0,	0.0);	( 386292.5, 3756627.7,	0.0,	0.0,	0.0);
( 386327.3, 3756627.7,	0.0,	0.0,	0.0);	( 386188.2, 3756655.1,	0.0,	0.0,	0.0);
( 386223.0, 3756655.1,	0.0,	0.0,	0.0);	( 386257.7, 3756655.1,	0.0,	0.0,	0.0);
( 386292.5, 3756655.1,	0.0,	0.0,	0.0);	( 386327.3, 3756655.1,	0.0,	0.0,	0.0);
( 386188.2, 3756682.5,	0.0,	0.0,	0.0);	( 386188.2, 3756710.0,	0.0,	0.0,	0.0);
( 386188.2, 3756737.4,	0.0,	0.0,	0.0);	( 386188.2, 3756764.9,	0.0,	0.0,	0.0);
( 386188.2, 3756792.3,	0.0,	0.0,	0.0);	( 386188.2, 3756819.8,	0.0,	0.0,	0.0);
( 386223.0, 3756819.8,	0.0,	0.0,	0.0);	( 386257.7, 3756819.8,	0.0,	0.0,	0.0);
( 386292.5, 3756819.8,	0.0,	0.0,	0.0);	( 386327.3, 3756819.8,	0.0,	0.0,	0.0);
( 386188.2, 3756847.2,	0.0,	0.0,	0.0);	( 386223.0, 3756847.2,	0.0,	0.0,	0.0);
( 386257.7, 3756847.2,	0.0,	0.0,	0.0);	( 386292.5, 3756847.2,	0.0,	0.0,	0.0);
( 386327.3, 3756847.2,	0.0,	0.0,	0.0);	( 386188.2, 3756874.6,	0.0,	0.0,	0.0);
( 386223.0, 3756874.6,	0.0,	0.0,	0.0);	( 386257.7, 3756874.6,	0.0,	0.0,	0.0);
( 386292.5, 3756874.6,	0.0,	0.0,	0.0);	( 386327.3, 3756874.6,	0.0,	0.0,	0.0);
( 386188.2, 3756902.1,	0.0,	0.0,	0.0);	( 386223.0, 3756902.1,	0.0,	0.0,	0.0);
( 386257.7, 3756902.1,	0.0,	0.0,	0.0);	( 386292.5, 3756902.1,	0.0,	0.0,	0.0);
( 386327.3, 3756902.1,	0.0,	0.0,	0.0);				

\*\*\* AERMOD - VERSION 09292 \*\*\*

\*\*MODELOPTs: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

### \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\* (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

### \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized CO Concentrations - Mitigated On-site

\*\*MODELOPTs: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

### \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341  
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL

Localized CO Analysis - On-Site Mitigated

Surface format: FREE
Profile format: FREE
Surface station no.: 0
Name: UNKNOWNN
Year: 2005
Upper air station no.: 3190
Name: UNKNOWNN
Year: 2005

First 24 hours of scalar data

Table with columns: YR MO DY JDY HR HO U\* W\* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD HT REF TA HT. Contains 24 rows of hourly data.

First hour of profile data

Table with columns: YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV. Contains one row of profile data.

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 09292 \*\*\*
\*\*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\*
07/15/10
13:14:37
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\*\*MODELOPTs: RegDFAULT CONC
ELEV
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*
INCLUDING SOURCE(S): PAREAL

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

Table with columns: X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMDDHH). Contains a grid of receptor points with coordinates and concentrations.

\*\*\* AERMOD - VERSION 09292 \*\*\*
\*\*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\*
07/15/10
13:14:37
PAGE 8

\*\*MODELOPTs: RegDFAULT CONC
ELEV
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*
INCLUDING SOURCE(S): PAREAL

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

Table with columns: X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMDDHH). Contains a grid of receptor points with coordinates and concentrations.



Localized CO Analysis – On-Site Mitigated

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\* 07/15/10  
\*\*\*  
\*\*\*  
\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT  
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\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREAL ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF CO		IN PPM		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
386188.17	3756353.27	0.09446c	(07031308)	386222.95	3756353.27	0.10251m	(06030908)
386257.73	3756353.27	0.11407m	(06030908)	386292.51	3756353.27	0.11808m	(06030908)
386327.29	3756353.27	0.11427m	(06030908)	386188.17	3756380.71	0.09735	(06031708)
386222.95	3756380.71	0.10580m	(06030908)	386257.73	3756380.71	0.12062m	(06030908)
386292.51	3756380.71	0.12726m	(06030908)	386327.29	3756380.71	0.12525m	(06030908)
386188.17	3756408.15	0.10883	(06031708)	386222.95	3756408.15	0.10866m	(06030908)
386257.73	3756408.15	0.12712m	(06030908)	386292.51	3756408.15	0.13679m	(06030908)
386327.29	3756408.15	0.13710m	(06030908)	386188.17	3756435.59	0.11987	(06031708)
386222.95	3756435.59	0.11216	(06031708)	386257.73	3756435.59	0.13357m	(06030908)
386292.51	3756435.59	0.14666m	(06030908)	386327.29	3756435.59	0.14983m	(06030908)
386188.17	3756463.03	0.13006	(06031708)	386222.95	3756463.03	0.12682	(06031708)
386257.73	3756463.03	0.13996m	(06030908)	386292.51	3756463.03	0.15689m	(06030908)
386327.29	3756463.03	0.16343m	(06030908)	386188.17	3756490.47	0.13895	(06031708)
386222.95	3756490.47	0.14135	(06031708)	386257.73	3756490.47	0.14636m	(06030908)
386292.51	3756490.47	0.16755m	(06030908)	386327.29	3756490.47	0.17799m	(06030908)
386188.17	3756517.91	0.14611	(06031708)	386222.95	3756517.91	0.15533	(06031708)
386257.73	3756517.91	0.15575	(07121808)	386292.51	3756517.91	0.17878m	(06030908)
386327.29	3756517.91	0.19369m	(06030908)	386188.17	3756545.35	0.15115	(06031708)
386222.95	3756545.35	0.16831	(06031708)	386257.73	3756545.35	0.17469	(06031708)
386292.51	3756545.35	0.19080m	(06030908)	386327.29	3756545.35	0.21091m	(06030908)
386188.17	3756572.79	0.15366	(06031708)	386222.95	3756572.79	0.17991	(06031708)
386257.73	3756572.79	0.19640	(06031708)	386292.51	3756572.79	0.20396m	(06030908)
386327.29	3756572.79	0.23024m	(06030908)	386188.17	3756600.23	0.17168	(05122308)
386222.95	3756600.23	0.19016	(06031708)	386257.73	3756600.23	0.21901	(06031708)
386292.51	3756600.23	0.23127	(07121808)	386327.29	3756600.23	0.25272m	(06030908)
386188.17	3756627.67	0.19348	(05122308)	386222.95	3756627.67	0.20792	(05122308)
386257.73	3756627.67	0.24304	(06031708)	386292.51	3756627.67	0.26453	(06031708)
386327.29	3756627.67	0.27995m	(06030908)	386188.17	3756655.11	0.20587	(05122308)
386222.95	3756655.11	0.24542	(05122308)	386257.73	3756655.11	0.27049	(06031708)
386292.51	3756655.11	0.30724	(06031708)	386327.29	3756655.11	0.32367	(07121808)
386188.17	3756682.55	0.22855	(06121608)	386188.17	3756709.99	0.23464	(06121608)
386188.17	3756737.43	0.19269	(07090608)	386188.17	3756764.87	0.19115c	(07070208)
386188.17	3756792.31	0.17957c	(07070208)	386188.17	3756819.75	0.16864c	(05041808)
386222.95	3756819.75	0.24070c	(05041808)	386257.73	3756819.75	0.24548c	(05041808)
386292.51	3756819.75	0.24957c	(05041808)	386327.29	3756819.75	0.29075c	(05041808)
386188.17	3756847.19	0.18103c	(05041808)	386222.95	3756847.19	0.21265c	(05041808)
386257.73	3756847.19	0.21708c	(05041808)	386292.51	3756847.19	0.23472c	(05041808)
386327.29	3756847.19	0.31972c	(05041808)	386188.17	3756874.63	0.17993c	(05041808)
386222.95	3756874.63	0.19540c	(05041808)	386257.73	3756874.63	0.20508c	(05041808)
386292.51	3756874.63	0.24224c	(05041808)	386327.29	3756874.63	0.35490c	(05041808)

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\* 07/15/10  
\*\*\*  
\*\*\*  
\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT  
PAGE 10

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREAL ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF CO		IN PPM		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
386188.17	3756902.07	0.17336c	(05041808)	386222.95	3756902.07	0.18438c	(05041808)
386257.73	3756902.07	0.20275c	(05041808)	386292.51	3756902.07	0.25658c	(05041808)
386327.29	3756902.07	0.37728c	(05041808)				

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\* 07/15/10  
\*\*\*  
\*\*\*  
\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT  
PAGE 11

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

** CONC OF CO		IN PPM		**	
GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.66887 ON 05082807: AT (	386292.51, 3756655.11, 0.00,	0.00, 0.00)	DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized CO Concentrations - Mitigated On-site \*\*\* 07/15/10  
\*\*\*  
\*\*\*  
\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT  
PAGE 12

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

** CONC OF CO		IN PPM		**	
GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.37728c ON 05041808: AT (	386327.29, 3756902.07, 0.00,	0.00, 0.00)	DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART

# Localized CO Analysis – On-Site Mitigated

```
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 09292 ***   *** Jordaon Downs Localized CO Concentrations - Mitigated On-site ***
***                                     ***                                     ***
**MODELOPTs:  RegDEFAULT CONC                                     ELEV
                                                         NODRYDPLT NOWETDPLT

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of          0 Fatal Error Message(s)
A Total of          0 Warning Message(s)
A Total of        3086 Informational Message(s)
A Total of         26280 Hours Were Processed
A Total of         2622 Calm Hours Identified
A Total of          464 Missing Hours Identified ( 1.77 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
*** NONE ***

*****
*** AERMOD Finishes Successfully ***
*****
```

# Localized NO2 Analysis – On-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Unmitigated\NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized NO2 Concentrations - Unmitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
** Source Parameters **
SRCPARAM PAREAL 4.461E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
```

# Localized NO2 Analysis – On-Site Unmitigated

```

DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Unmitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:39:04
**MODELOPTs:  RegDFAULT CONC                ELEV                PAGE 1
                NODRYDPLT NOWETDPLT
                ***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      1 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes:      1 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 531.50
Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Unmitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:39:04
**MODELOPTs:  RegDFAULT CONC                ELEV                PAGE 2
                NODRYDPLT NOWETDPLT

```

Localized NO2 Analysis – On-Site Unmitigated

\*\*\* AREAPOLY SOURCE DATA \*\*\*

Table with columns: SOURCE ID, NUMBER PART. CATS., EMISSION RATE (USER UNITS /METER\*\*2), LOCATION OF AREA (X, Y METERS), BASE ELEV. (METERS), RELEASE HEIGHT (METERS), NUMBER OF VERTS. (SZ), INIT. SOURCE (METERS), URBAN SOURCE, EMISSION RATE SCALAR VARY BY, and a column for date/time/page.

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

Table showing GROUP ID, SOURCE IDs, and model options (RegDFault Conc, ELEV, NODRYDPLT, NOWETDPLT) for PAREAL and AERMOD.

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\* (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

Large table listing discrete Cartesian receptors with columns for X, Y, Z coordinates and corresponding source IDs and receptor IDs.

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\* (1=YES; 0=NO)

Grid of 1s and 0s representing meteorological days selected for processing.

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)

Table showing wind speed categories (1.54, 3.09, 5.14, 8.23, 10.80) and model options for AERMOD.

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL
Surface format: FREE
Profile format: FREE

Localized NO2 Analysis – On-Site Unmitigated

Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2005 Year: 2005

Table with 18 columns: YR, MO, DY, JDY, HR, HO, U\*, W\*, DT/DZ, ZICNV, ZIMCH, M-O, LEN, Z0, BOWEN, ALBEDO, REF, WS, WD, HT, REF, TA, HT. Contains 24 rows of hourly scalar data.

Table with 10 columns: YR, MO, DY, HR, HEIGHT, F, WDIR, WSPD, AMB\_TMP, sigmaA, sigmaW, sigmaV. Contains 3 rows of profile data.

F indicates top of profile (=1) or below (=0)
\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Unmitigated On-site \*\*\* 07/15/10
\*\*\* 13:39:04
PAGE 7

Table with 8 columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Contains a large grid of discrete receptor points.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Unmitigated On-site \*\*\* 07/15/10
\*\*\* 13:39:04
PAGE 8

Table with 8 columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Contains a smaller grid of discrete receptor points.

# Localized NO2 Analysis – On-Site Unmitigated

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

PAGE 9

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.08499 ON 05082807: AT (	386292.51,	3756655.11,	0.00,	0.00, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Unmitigated On-site      \*\*\*  
07/15/10  
13:39:04  
PAGE 10

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of            0 Fatal Error Message(s)  
A Total of            0 Warning Message(s)  
A Total of            3086 Informational Message(s)  
A Total of            26280 Hours Were Processed  
A Total of            2622 Calm Hours Identified  
A Total of            464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# Localized NO2 Analysis – On-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Mitigated\NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized NO2 Concentrations - Mitigated On-site
MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
** Source Parameters **
SRCPARAM PAREAL 4.24E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
```



# Localized NO2 Analysis – On-Site Mitigated

```

DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
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DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:43:04
**MODELOPTs:  RegDFAULT CONC                                     ELEV                                     **                                     **      PAGE 1
                                     NODRYDPLT NOWETDPLT
                                     *** MODEL SETUP OPTIONS SUMMARY ***

-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      1 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes:      1 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 531.50
Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:43:04
**MODELOPTs:  RegDFAULT CONC                                     ELEV                                     **                                     **      PAGE 2
                                     NODRYDPLT NOWETDPLT

```

# Localized NO2 Analysis – On-Site Mitigated

## \*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY		
PAREAL	0	0.42400E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES			
*** AERMOD - VERSION 09292 ***			*** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***									07/15/10 13:43:04 PAGE 3
**MODELOPTs: RegDFAULT CONC							ELEV NODRYDPLT NOWETDPLT					

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID		SOURCE IDS			
ALL	PAREAL				
*** AERMOD - VERSION 09292 ***		*** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***			07/15/10 13:43:04 PAGE 4
**MODELOPTs: RegDFAULT CONC			ELEV NODRYDPLT NOWETDPLT		

## \*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*

\*\*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site \*\*\*

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

07/15/10  
13:43:04  
PAGE 5

## \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*

(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

## \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

	1.54, 3.09, 5.14, 8.23, 10.80,		
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***		07/15/10 13:43:04 PAGE 6
**MODELOPTs: RegDFAULT CONC		ELEV NODRYDPLT NOWETDPLT	

## \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341  
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL  
Surface format: FREE  
Profile format: FREE



# Localized NO2 Analysis – On-Site Mitigated

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

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\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.08078	ON 05082807: AT (	386292.51, 3756655.11,	0.00, 0.00, 0.00)	DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site      \*\*\*  
07/15/10  
13:43:04  
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\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of            0 Fatal Error Message(s)  
A Total of            0 Warning Message(s)  
A Total of            3086 Informational Message(s)  
A Total of            26280 Hours Were Processed  
A Total of            2622 Calm Hours Identified  
A Total of            464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# Localized PM10 Analysis – On-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Unmitigated\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM10 Concentrations -Unmitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM.10
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA1 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.319E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 0.00004701 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
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DISCCART 386327.29 3756435.59 0.00 0.00
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DISCCART 386257.73 3756627.67 0.00 0.00
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```

## Localized PM10 Analysis – On-Site Unmitigated

```

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DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site ***      07/15/10
***                               ***                               ***                               ***                               ***      12:40:18
***                               ***                               ***                               ***                               ***      PAGE 1

**MODELOPTS:  RegDEFAULT CONC                ELEV
                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates      1 Short Term Average(s) of:  24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of:  PM.10

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

```

# Localized PM10 Analysis – On-Site Unmitigated

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 2

\*\*MODELOPTs: RegDFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.23190E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.47010E-04	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 3

\*\*MODELOPTs: RegDFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREAL , PAREA2 ,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 4

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 5

\*\*MODELOPTs: RegDFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
 (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 6

\*\*MODELOPTs: RegDFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT





# Localized PM10 Analysis – On-Site Unmitigated

```

X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
-----
386188.17    3756902.07    202.01091b (05041824)    386222.95    3756902.07    205.95048b (05041824)
386257.73    3756902.07    225.21692b (05041824)    386292.51    3756902.07    300.73840b (05041824)
386327.29    3756902.07    501.33084b (05041824)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      ***
***

```

```

**MODELOPTs:  RegDEFAULT CONC      ELEV      07/15/10
NODRYDPLT NOWETDPLT      NODRYDPLT NOWETDPLT      ***      12:40:18
PAGE 9

```

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM.10 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	501.33084b	ON 05041824: AT (	386327.29, 3756902.07, 0.00, 0.00, 0.00)	DC	

```

*** RECEPTOR TYPES:  GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```

```

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      ***
***
**MODELOPTs:  RegDEFAULT CONC      ELEV      07/15/10
NODRYDPLT NOWETDPLT      NODRYDPLT NOWETDPLT      ***      12:40:18
PAGE 10

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      0 Warning Message(s)
A Total of    3086 Informational Message(s)

A Total of    26280 Hours Were Processed
A Total of     2622 Calm Hours Identified
A Total of      464 Missing Hours Identified ( 1.77 Percent)

```

```

***** FATAL ERROR MESSAGES *****
*** NONE ***

```

```

***** WARNING MESSAGES *****
*** NONE ***

```

```

*****
*** AERMOD Finishes Successfully ***
*****

```

# Localized NO2 Analysis – On-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Mitigated\NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized NO2 Concentrations - Mitigated On-site
MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 1
URBANOPT 9862049
POLLUTID NOX
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
** Source Parameters **
SRCPARAM PAREAL 4.24E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
CONCUNIT 531.5 GRAMS/SEC PPM
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
```

# Localized NO2 Analysis – On-Site Mitigated

```

DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lymn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST NO2.AD\01HIGALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:43:04
**MODELOPTs:  RegDFAULT CONC                                     ELEV                                     **                                     **      PAGE 1
                                     NODRYDPLT NOWETDPLT
                                     *** MODEL SETUP OPTIONS SUMMARY ***

-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      1 Source(s),
for Total of      1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes:      1 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 531.50
Output Units = PPM

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized NO2 Concentrations - Mitigated On-site ***      07/15/10
***                                     ***                                     ***                                     ***      13:43:04
**MODELOPTs:  RegDFAULT CONC                                     ELEV                                     **                                     **      PAGE 2
                                     NODRYDPLT NOWETDPLT

```

Localized NO2 Analysis – On-Site Mitigated

\*\*\* AREAPOLY SOURCE DATA \*\*\*

Table with 11 columns: SOURCE ID, NUMBER PART., EMISSION RATE, LOCATION OF AREA (X, Y), BASE ELEV., RELEASE HEIGHT, NUMBER OF VERTS., INIT. SZ, URBAN SOURCE, EMISSION RATE SCALAR, VARY BY. Includes header information and data for PAREAL 0.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site \*\*\* 07/15/10 13:43:04 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

ALL PAREAL , \*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site \*\*\* 07/15/10 13:43:04 PAGE 4

\*\*MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

Large table listing discrete Cartesian receptors with columns for coordinates and receptor ID. Includes header information and a long list of receptor coordinates.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site \*\*\* 07/15/10 13:43:04 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*

(1=YES; 0=NO)

Table showing meteorological days selected for processing, consisting of a grid of 1s and 0s.

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site \*\*\* 07/15/10 13:43:04 PAGE 6

\*\*MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL
Surface format: FREE
Profile format: FREE



# Localized NO2 Analysis – On-Site Mitigated

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

PAGE 9

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.08078	ON 05082807: AT (	386292.51, 3756655.11,	0.00, 0.00, 0.00)	DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized NO2 Concentrations - Mitigated On-site      \*\*\*  
07/15/10  
13:43:04  
PAGE 10

\*\*MODELOPTs: RegDFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of            0 Fatal Error Message(s)  
A Total of            0 Warning Message(s)  
A Total of            3086 Informational Message(s)  
A Total of            26280 Hours Were Processed  
A Total of            2622 Calm Hours Identified  
A Total of            464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# Localized PM10 Analysis – On-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Unmitigated\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM10 Concentrations -Unmitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM.10
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREA1 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.319E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 0.00004701 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
```

## Localized PM10 Analysis – On-Site Unmitigated

```

DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
** ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
** OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site ***      07/15/10
***                               ***                               ***                               ***      12:40:18
***                               ***                               ***                               ***      PAGE 1

**MODELOPTS:  RegDEFAULT CONC                ELEV
                                         NODRYDPLT NOWETDPLT

*** MODEL SETUP OPTIONS SUMMARY ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 85 Receptor(s)

**The Model Assumes A Pollutant Type of: PM.10

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                             m for Missing Hours
                                                             b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

```



# Localized PM10 Analysis – On-Site Unmitigated

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.23190E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.47010E-04	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREAL , PAREA2 ,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 4

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
 (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:40:18  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

Localized PM10 Analysis – On-Site Unmitigated

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341  
 Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL  
 Surface format: FREE  
 Profile format: FREE  
 Surface station no.: 0 Upper air station no.: 3190  
 Name: UNKNOWN Name: UNKNOWN  
 Year: 2005 Year: 2005

First 24 hours of scalar data

YR	MO	DAY	JYD	HR	HO	U*	W*	DT/DZ	ZLCNV	ZLMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
05	01	01	1	01	-0.3	0.021	-9.000	-9.000	-999.	7.	2.8	0.51	1.00	1.00	0.30	337.	9.1	281.4	5.5			
05	01	01	1	02	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	317.	9.1	281.4	5.5			
05	01	01	1	03	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	338.	9.1	280.9	5.5			
05	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	280.4	5.5			
05	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	279.9	5.5			
05	01	01	1	06	-0.3	0.020	-9.000	-9.000	-999.	6.	2.2	0.51	1.00	1.00	0.28	313.	9.1	279.9	5.5			
05	01	01	1	07	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	328.	9.1	279.2	5.5			
05	01	01	1	08	21.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	0.54	0.00	0.	9.1	279.9	5.5			
05	01	01	1	09	43.1	0.107	0.924	0.005	661.	80.	-2.5	0.51	1.00	0.32	0.40	9.	9.1	282.5	5.5			
05	01	01	1	10	110.9	0.238	1.400	0.006	895.	266.	-10.9	0.51	1.00	0.24	1.20	58.	9.1	285.4	5.5			
05	01	01	1	11	135.8	0.203	1.658	0.010	1214.	211.	-5.6	0.51	1.00	0.21	0.90	45.	9.1	287.5	5.5			
05	01	01	1	12	14.0	0.119	0.779	0.010	1217.	96.	-10.8	0.51	1.00	0.20	0.60	204.	9.1	285.9	5.5			
05	01	01	1	13	27.0	0.205	0.970	0.009	1223.	213.	-28.8	0.51	1.00	0.20	1.20	154.	9.1	286.4	5.5			
05	01	01	1	14	17.0	0.160	0.833	0.009	1227.	147.	-21.7	0.51	1.00	0.21	0.90	203.	9.1	286.4	5.5			
05	01	01	1	15	3.8	0.063	0.504	0.009	1227.	41.	-6.0	0.51	1.00	0.24	0.28	231.	9.1	286.4	5.5			
05	01	01	1	16	0.1	0.085	0.151	0.009	1227.	57.	-549.9	0.51	1.00	0.33	0.60	222.	9.1	285.9	5.5			
05	01	01	1	17	-0.3	0.021	-9.000	-9.000	-999.	10.	2.5	0.51	1.00	0.60	0.30	197.	9.1	285.9	5.5			
05	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	285.4	5.5			
05	01	01	1	19	-0.2	0.020	-9.000	-9.000	-999.	6.	3.1	0.51	1.00	1.00	0.28	264.	9.1	284.9	5.5			
05	01	01	1	20	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	256.	9.1	284.2	5.5			
05	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.8	5.5			
05	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5			
05	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5			
05	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	282.0	5.5			

First hour of profile data

YR	MO	DAY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
05	01	01	01	5.5	0	-999.	-99.00	281.5	99.0	-99.00	-99.00
05	01	01	01	9.1	1	337.	0.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (-1) or below (-0)  
 \*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site \*\*\* 07/15/10  
 \*\*\* \*\* \*\* 12:40:18  
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\*\*\*MODELOPTS: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREAL , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF PM.10		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
386188.17	3756353.27	102.286556c	(05123124)	386222.95	3756353.27	117.44483m	(06030924)
386257.73	3756353.27	126.46952m	(06030924)	386292.51	3756353.27	131.40863m	(06030924)
386327.29	3756353.27	151.53707c	(07031224)	386188.17	3756380.71	115.25963	(07121824)
386222.95	3756380.71	120.90868m	(06030924)	386257.73	3756380.71	133.95656m	(06030924)
386292.51	3756380.71	141.14453m	(06030924)	386327.29	3756380.71	155.24046c	(05122924)
386188.17	3756408.15	133.90238	(07121824)	386222.95	3756408.15	123.43609m	(06030924)
386257.73	3756408.15	141.54549m	(06030924)	386292.51	3756408.15	150.85970m	(06030924)
386327.29	3756408.15	163.17911c	(05122924)	386188.17	3756435.59	154.66556	(07121824)
386222.95	3756435.59	142.98795	(07121824)	386257.73	3756435.59	149.27569m	(06030924)
386292.51	3756435.59	160.66876m	(06030924)	386327.29	3756435.59	171.88408c	(05122924)
386188.17	3756463.03	176.21449	(07121824)	386222.95	3756463.03	168.04616	(07121824)
386257.73	3756463.03	157.11559m	(06030924)	386292.51	3756463.03	173.90312c	(06010824)
386327.29	3756463.03	181.74201m	(06030924)	386188.17	3756490.47	197.25906	(07121824)
386222.95	3756490.47	194.46094	(07121824)	386257.73	3756490.47	181.32378	(07121824)
386292.51	3756490.47	191.07681c	(06010824)	386327.29	3756490.47	197.01797m	(06030924)
386188.17	3756517.91	217.08870	(07121824)	386222.95	3756517.91	220.75023	(07121824)
386257.73	3756517.91	214.87901	(07121824)	386292.51	3756517.91	209.38232c	(06010824)
386327.29	3756517.91	217.99297	(06012524)	386188.17	3756545.35	236.08358	(07121824)
386222.95	3756545.35	246.61153	(07121824)	386257.73	3756545.35	250.15477	(07121824)
386292.51	3756545.35	228.65157c	(06010824)	386327.29	3756545.35	251.03636	(06012524)
386188.17	3756572.79	254.54928	(07121824)	386222.95	3756572.79	273.62481	(07121824)
386257.73	3756572.79	287.69948	(07121824)	386292.51	3756572.79	269.88092	(07121824)
386327.29	3756572.79	288.86041	(06012524)	386188.17	3756600.23	269.19637	(07121824)
386222.95	3756600.23	303.71902	(07121824)	386257.73	3756600.23	331.06752	(07121824)
386292.51	3756600.23	321.03476	(07121824)	386327.29	3756600.23	332.45429	(06012524)
386188.17	3756627.67	274.76306	(07121824)	386222.95	3756627.67	339.12162	(07121824)
386257.73	3756627.67	384.71222	(07121824)	386292.51	3756627.67	387.47006	(07121824)
386327.29	3756627.67	386.04042	(06012524)	386188.17	3756655.11	268.57641	(07121824)
386222.95	3756655.11	389.29666	(07121824)	386257.73	3756655.11	462.44805	(07121824)
386292.51	3756655.11	482.27305	(07121824)	386327.29	3756655.11	470.48771	(07121824)
386188.17	3756682.55	323.49145c	(05020624)	386188.17	3756709.99	394.51907c	(05020624)
386188.17	3756737.43	352.08260c	(05020624)	386188.17	3756764.87	246.17276c	(05020624)
386188.17	3756792.31	175.71935c	(05122624)	386188.17	3756819.75	208.25532b	(05041824)
386222.95	3756819.75	308.83425b	(05041824)	386257.73	3756819.75	315.16456b	(05041824)
386292.51	3756819.75	331.33784b	(05041824)	386327.29	3756819.75	461.94658c	(05020624)
386188.17	3756847.19	224.88291b	(05041824)	386222.95	3756847.19	253.82442b	(05041824)
386257.73	3756847.19	259.80738b	(05041824)	386292.51	3756847.19	279.44386b	(05041824)
386327.29	3756847.19	426.04397b	(05041824)	386188.17	3756874.63	217.21286b	(05041824)
386222.95	3756874.63	224.81607b	(05041824)	386257.73	3756874.63	232.21175b	(05041824)
386292.51	3756874.63	278.98834b	(05041824)	386327.29	3756874.63	467.14693b	(05041824)

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site \*\*\* 07/15/10  
 \*\*\* \*\* \*\* 12:40:18  
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\*\*\*MODELOPTS: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREAL , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF PM.10		IN MICROGRAMS/M**3		**	
------------------	--	--------------------	--	----	--

# Localized PM10 Analysis – On-Site Unmitigated

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X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
-----
386188.17    3756902.07    202.01091b (05041824)    386222.95    3756902.07    205.95048b (05041824)
386257.73    3756902.07    225.21692b (05041824)    386292.51    3756902.07    300.73840b (05041824)
386327.29    3756902.07    501.33084b (05041824)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site      ***
***                                     ***                                     ***

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12:40:18  
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\*\*MODELOPTs: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM.10 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	501.33084b ON 05041824: AT (	386327.29, 3756902.07,	0.00,	0.00, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\*\* Jordaon Downs Localized PM10 Concentrations -Unmitigated On-site \*\*\*  
\*\*\* \*\*\* \*\*\*  
07/15/10  
12:40:18  
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\*\*MODELOPTs: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 0 Warning Message(s)  
A Total of 3086 Informational Message(s)  
  
A Total of 26280 Hours Were Processed  
A Total of 2622 Calm Hours Identified  
A Total of 464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# Localized PM10 Analysis – On-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Mitigated\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM10 Concentrations - Mitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM.10
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.319E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 0.00004701 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
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# Localized PM10 Analysis – On-Site Mitigated

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DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM10 Concentrations - Mitigated On-site ***      07/15/10
***                               ***                               ***                               ***                               ***      12:44:53
***                               ***                               ***                               ***                               ***      PAGE 1

**MODELOPTS:  RegDEFAULT CONC                ELEV
                                         NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates      1 Short Term Average(s) of: 24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of: PM.10

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

```

# Localized PM10 Analysis – On-Site Mitigated

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations - Mitigated On-site      \*\*\*      07/15/10  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCOTION OF AREA X (METERS)	Y (METERS)	BASE RLEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.23190E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.47010E-04	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREA1 , PAREA2 ,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM10 Concentrations - Mitigated On-site      \*\*\*      07/15/10  
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\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
 (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
 (METERS/SEC)

	1.54, 3.09, 5.14, 8.23, 10.80,	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized PM10 Concentrations - Mitigated On-site	***      07/15/10
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

# Localized PM10 Analysis – On-Site Mitigated

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

```

Surface file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC    Met Version: 06341
Profile file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:      0                      Upper air station no.:    3190
Name: UNKNOWN           Name: UNKNOWN
Year: 2005              Year: 2005
    
```

First 24 hours of scalar data

YR	MO	DAY	JDY	HR	HO	U*	W*	DT/DZ	ZLCNV	ZLMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
05	01	01	1	01	-0.3	0.021	-9.000	-9.000	-999.	7.	2.8	0.51	1.00	1.00	0.30	337.	9.1	281.4	9.1	281.4	5.5	
05	01	01	1	02	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	317.	9.1	281.4	9.1	281.4	5.5	
05	01	01	1	03	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	338.	9.1	280.9	9.1	280.9	5.5	
05	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	280.4	9.1	280.4	5.5	
05	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	279.9	9.1	279.9	5.5	
05	01	01	1	06	-0.3	0.020	-9.000	-9.000	-999.	6.	2.2	0.51	1.00	1.00	0.28	313.	9.1	279.9	9.1	279.9	5.5	
05	01	01	1	07	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	328.	9.1	279.2	9.1	279.2	5.5	
05	01	01	1	08	21.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	0.54	0.00	0.	9.1	279.9	9.1	279.9	5.5	
05	01	01	1	09	43.1	0.107	0.924	0.005	661.	80.	-2.5	0.51	1.00	0.32	0.40	9.	9.1	282.5	9.1	282.5	5.5	
05	01	01	1	10	110.9	0.238	1.400	0.006	895.	266.	-10.9	0.51	1.00	0.24	1.20	58.	9.1	285.4	9.1	285.4	5.5	
05	01	01	1	11	135.8	0.203	1.658	0.010	1214.	211.	-5.6	0.51	1.00	0.21	0.90	45.	9.1	287.5	9.1	287.5	5.5	
05	01	01	1	12	14.0	0.119	0.779	0.010	1217.	96.	-10.8	0.51	1.00	0.20	0.60	204.	9.1	285.9	9.1	285.9	5.5	
05	01	01	1	13	27.0	0.205	0.970	0.009	1223.	213.	-28.8	0.51	1.00	0.20	1.20	154.	9.1	286.4	9.1	286.4	5.5	
05	01	01	1	14	17.0	0.160	0.833	0.009	1227.	147.	-21.7	0.51	1.00	0.21	0.90	203.	9.1	286.4	9.1	286.4	5.5	
05	01	01	1	15	3.8	0.063	0.504	0.009	1227.	41.	-6.0	0.51	1.00	0.24	0.28	231.	9.1	286.4	9.1	286.4	5.5	
05	01	01	1	16	0.1	0.085	0.151	0.009	1227.	57.	-549.9	0.51	1.00	0.33	0.60	222.	9.1	285.9	9.1	285.9	5.5	
05	01	01	1	17	-0.3	0.021	-9.000	-9.000	-999.	10.	2.5	0.51	1.00	0.60	0.30	197.	9.1	285.9	9.1	285.9	5.5	
05	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	285.4	9.1	285.4	5.5	
05	01	01	1	19	-0.2	0.020	-9.000	-9.000	-999.	6.	3.1	0.51	1.00	1.00	0.28	264.	9.1	284.9	9.1	284.9	5.5	
05	01	01	1	20	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	256.	9.1	284.2	9.1	284.2	5.5	
05	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.8	9.1	283.8	5.5	
05	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	9.1	283.1	5.5	
05	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	9.1	283.1	5.5	
05	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	282.0	9.1	282.0	5.5	

First hour of profile data

YR	MO	DAY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
05	01	01	01	5.5	0	-999.	-99.00	281.5	99.0	-99.00	-99.00
05	01	01	01	9.1	1	337.	0.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (-1) or below (-0)  
 \*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM10 Concentrations - Mitigated On-site \*\*\*  
 \*\*\* 07/15/10  
 12:44:53  
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\*\*\* MODELPTS: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA1 , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF PM.10		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
386188.17	3756353.27	102.286556c	(05123124)	386222.95	3756353.27	117.44483m	(06030924)
386257.73	3756353.27	126.46952m	(06030924)	386292.51	3756353.27	131.40863m	(06030924)
386327.29	3756353.27	151.53707c	(07031224)	386188.17	3756380.71	115.25963	(07121824)
386222.95	3756380.71	120.90868m	(06030924)	386257.73	3756380.71	133.95656m	(06030924)
386292.51	3756380.71	141.14453m	(06030924)	386327.29	3756380.71	155.24046c	(05122924)
386188.17	3756408.15	133.90238	(07121824)	386222.95	3756408.15	123.43609m	(06030924)
386257.73	3756408.15	141.54549m	(06030924)	386292.51	3756408.15	150.85970m	(06030924)
386327.29	3756408.15	163.17911c	(05122924)	386188.17	3756435.59	154.66556	(07121824)
386222.95	3756435.59	142.98795	(07121824)	386257.73	3756435.59	149.27569m	(06030924)
386292.51	3756435.59	160.66876m	(06030924)	386327.29	3756435.59	171.88408c	(05122924)
386188.17	3756463.03	176.21449	(07121824)	386222.95	3756463.03	168.04616	(07121824)
386257.73	3756463.03	157.11559m	(06030924)	386292.51	3756463.03	173.90312c	(06010824)
386327.29	3756463.03	181.74201m	(06030924)	386188.17	3756490.47	197.25906	(07121824)
386222.95	3756490.47	194.46094	(07121824)	386257.73	3756490.47	181.32378	(07121824)
386292.51	3756490.47	191.07681c	(06010824)	386327.29	3756490.47	197.01797m	(06030924)
386188.17	3756517.91	217.08870	(07121824)	386222.95	3756517.91	220.75023	(07121824)
386257.73	3756517.91	214.87901	(07121824)	386292.51	3756517.91	209.38232c	(06010824)
386327.29	3756517.91	217.99297	(06012524)	386188.17	3756545.35	236.08358	(07121824)
386222.95	3756545.35	246.61153	(07121824)	386257.73	3756545.35	250.15477	(07121824)
386292.51	3756545.35	228.65157c	(06010824)	386327.29	3756545.35	251.03636	(06012524)
386188.17	3756572.79	254.54928	(07121824)	386222.95	3756572.79	273.62481	(07121824)
386257.73	3756572.79	287.69948	(07121824)	386292.51	3756572.79	269.88092	(07121824)
386327.29	3756572.79	288.86041	(06012524)	386188.17	3756600.23	269.19637	(07121824)
386222.95	3756600.23	303.71902	(07121824)	386257.73	3756600.23	331.06752	(07121824)
386292.51	3756600.23	321.03476	(07121824)	386327.29	3756600.23	332.45429	(06012524)
386188.17	3756627.67	274.76306	(07121824)	386222.95	3756627.67	339.12162	(07121824)
386257.73	3756627.67	384.71222	(07121824)	386292.51	3756627.67	387.47006	(07121824)
386327.29	3756627.67	386.04042	(06012524)	386188.17	3756655.11	268.57641	(07121824)
386222.95	3756655.11	389.29666	(07121824)	386257.73	3756655.11	462.44805	(07121824)
386292.51	3756655.11	482.27305	(07121824)	386327.29	3756655.11	470.48771	(07121824)
386188.17	3756682.55	323.49145c	(05020624)	386188.17	3756709.99	394.51907c	(05020624)
386188.17	3756737.43	352.08260c	(05020624)	386188.17	3756764.87	246.17276c	(05020624)
386188.17	3756792.31	175.71935c	(05122624)	386188.17	3756819.75	208.25532b	(05041824)
386222.95	3756819.75	308.83425b	(05041824)	386257.73	3756819.75	315.16456b	(05041824)
386292.51	3756819.75	331.33784b	(05041824)	386327.29	3756819.75	461.94658c	(05020624)
386188.17	3756847.19	224.88291b	(05041824)	386222.95	3756847.19	253.82442b	(05041824)
386257.73	3756847.19	259.80738b	(05041824)	386292.51	3756847.19	279.44386b	(05041824)
386327.29	3756847.19	426.04397b	(05041824)	386188.17	3756874.63	217.21286b	(05041824)
386222.95	3756874.63	224.81607b	(05041824)	386257.73	3756874.63	232.21175b	(05041824)
386292.51	3756874.63	278.98834b	(05041824)	386327.29	3756874.63	467.14693b	(05041824)

\*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM10 Concentrations - Mitigated On-site \*\*\*  
 \*\*\* 07/15/10  
 12:44:53  
 PAGE 8

\*\*\* MODELPTS: RegDEFAULT CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA1 , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF PM.10		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

# Localized PM10 Analysis – On-Site Mitigated

```

X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
-----
386188.17    3756902.07    202.01091b (05041824)    386222.95    3756902.07    205.95048b (05041824)
386257.73    3756902.07    225.21692b (05041824)    386292.51    3756902.07    300.73840b (05041824)
386327.29    3756902.07    501.33084b (05041824)
*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized PM10 Concentrations - Mitigated On-site    ***    07/15/10
***                                     ***                                     ***    12:44:53
***                                     ***                                     ***    PAGE    9

```

```

**MODELOPTs:  RegDEFAULT CONC
                                     ELEV
                                     NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

```

```

** CONC OF PM.10      IN MICROGRAMS/M**3      **
                                     DATE
GROUP ID      AVERAGE CONC      (YYMMDDHH)      RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)      OF TYPE      NETWORK
-----
ALL      HIGH 1ST HIGH VALUE IS      501.33084b ON 05041824: AT ( 386327.29, 3756902.07, 0.00, 0.00, 0.00) DC

```

```

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***    *** Jordaon Downs Localized PM10 Concentrations - Mitigated On-site    ***    07/15/10
***                                     ***                                     ***    12:44:53
***                                     ***                                     ***    PAGE   10
**MODELOPTs:  RegDEFAULT CONC
                                     ELEV
                                     NODRYDPLT NOWETDPLT

```

```

*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of      0 Fatal Error Message(s)
A Total of      0 Warning Message(s)
A Total of     3086 Informational Message(s)

A Total of     26280 Hours Were Processed
A Total of      2622 Calm Hours Identified
A Total of      464 Missing Hours Identified ( 1.77 Percent)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*



# Localized PM2.5 Analysis – On-Site Unmitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: c:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Unmitigated\PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM2.5 Concentrations -Unmitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.245E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 9.793E-06 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
DISCCART 386257.73 3756490.47 0.00 0.00
DISCCART 386292.51 3756490.47 0.00 0.00
DISCCART 386327.29 3756490.47 0.00 0.00
DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
```

# Localized PM2.5 Analysis – On-Site Unmitigated

```

DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
DISCCART 386188.17 3756792.31 0.00 0.00
DISCCART 386188.17 3756819.75 0.00 0.00
DISCCART 386222.95 3756819.75 0.00 0.00
DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site ***      07/15/10
***                               ***                               ***                               ***                               ***      12:52:08
***                               ***                               ***                               ***                               ***      PAGE 1

**MODELOPTs:  RegDEFAULT CONC                      ELEV
                                                       NODRYDPLT NOWETDPLT

***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for      2 Source(s),
for Total of      1 Urban Area(s):
Urban Population =      9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates      1 Short Term Average(s) of:  24-HR

**This Run Includes:      2 Source(s);      1 Source Group(s); and      85 Receptor(s)

**The Model Assumes A Pollutant Type of:  PM2.5

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                           m for Missing Hours
                                                           b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =      10.00 ; Decay Coef. =      0.000      ; Rot. Angle =      0.0
Emission Units = GRAMS/SEC                                ; Emission Rate Unit Factor =      0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

```

# Localized PM2.5 Analysis – On-Site Unmitigated

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:52:08  
 PAGE 2

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREAL	0	0.22450E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.97930E-05	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:52:08  
 PAGE 3

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREAL , PAREA2 ,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:52:08  
 PAGE 4

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      12:52:08  
 PAGE 5

\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
 (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
 (METERS/SEC)

	1.54, 3.09, 5.14, 8.23, 10.80,	
*** AERMOD - VERSION 09292 ***	*** Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site	***      07/15/10
***	***	***      12:52:08
**MODELOPTs: RegDEFAULT CONC	ELEV	PAGE 6
	NODRYDPLT NOWETDPLT	

# Localized PM2.5 Analysis – On-Site Unmitigated

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

```

Surface file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC      Met Version:  06341
Profile file:  L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0                                Upper air station no.: 3190
Name: UNKNOWN                                       Name: UNKNOWN
Year: 2005                                         Year: 2005
    
```

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZLCNV	ZLMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
05	01	01	1	01	-0.3	0.021	-9.000	-9.000	-999.	7.	2.8	0.51	1.00	1.00	0.30	337.	9.1	281.4	5.5			
05	01	01	1	02	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	317.	9.1	281.4	5.5			
05	01	01	1	03	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	338.	9.1	280.9	5.5			
05	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	280.4	5.5			
05	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	279.9	5.5			
05	01	01	1	06	-0.3	0.020	-9.000	-9.000	-999.	6.	2.2	0.51	1.00	1.00	0.28	313.	9.1	279.9	5.5			
05	01	01	1	07	-0.3	0.020	-9.000	-9.000	-999.	6.	2.3	0.51	1.00	1.00	0.28	328.	9.1	279.2	5.5			
05	01	01	1	08	21.4	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	0.54	0.00	0.	9.1	279.9	5.5			
05	01	01	1	09	43.1	0.107	0.924	0.005	661.	80.	-2.5	0.51	1.00	0.32	0.40	9.	9.1	282.5	5.5			
05	01	01	1	10	110.9	0.238	1.400	0.006	895.	266.	-10.9	0.51	1.00	0.24	1.20	58.	9.1	285.4	5.5			
05	01	01	1	11	135.8	0.203	1.658	0.010	1214.	211.	-5.6	0.51	1.00	0.21	0.90	45.	9.1	287.5	5.5			
05	01	01	1	12	14.0	0.119	0.779	0.010	1217.	96.	-10.8	0.51	1.00	0.20	0.60	204.	9.1	285.9	5.5			
05	01	01	1	13	27.0	0.205	0.970	0.009	1223.	213.	-28.8	0.51	1.00	0.20	1.20	154.	9.1	286.4	5.5			
05	01	01	1	14	17.0	0.160	0.833	0.009	1227.	147.	-21.7	0.51	1.00	0.21	0.90	203.	9.1	286.4	5.5			
05	01	01	1	15	3.8	0.063	0.504	0.009	1227.	41.	-6.0	0.51	1.00	0.24	0.28	231.	9.1	286.4	5.5			
05	01	01	1	16	0.1	0.085	0.151	0.009	1227.	57.	-549.9	0.51	1.00	0.33	0.60	222.	9.1	285.9	5.5			
05	01	01	1	17	-0.3	0.021	-9.000	-9.000	-999.	10.	2.5	0.51	1.00	0.60	0.30	197.	9.1	285.9	5.5			
05	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	285.4	5.5			
05	01	01	1	19	-0.2	0.020	-9.000	-9.000	-999.	6.	3.1	0.51	1.00	1.00	0.28	264.	9.1	284.9	5.5			
05	01	01	1	20	-0.3	0.021	-9.000	-9.000	-999.	7.	2.3	0.51	1.00	1.00	0.30	256.	9.1	284.2	5.5			
05	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.8	5.5			
05	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5			
05	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	283.1	5.5			
05	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.51	1.00	1.00	0.00	0.	9.1	282.0	5.5			

```

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
05 01 01 01 5.5 0 -999. -99.00 281.5 99.0 -99.00 -99.00
05 01 01 01 9.1 1 337. 0.30 -999.0 99.0 -99.00 -99.00
    
```

F indicates top of profile (-1) or below (-0)  
 \*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site \*\*\* 07/15/10  
 \*\*\* 12:52:08  
 PAGE 7

\*\*\* MODELOPTs: RegDFault CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREAL , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF PM2.5		IN MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
386188.17	3756353.27	24.63484c (051231824)	386222.95	3756353.27	28.22987m (06030924)
386257.73	3756353.27	30.53439m (06030924)	386292.51	3756353.27	31.71054m (06030924)
386327.29	3756353.27	36.47901c (07031224)	386188.17	3756380.71	28.13587 (07121824)
386222.95	3756380.71	29.07239m (06030924)	386257.73	3756380.71	32.33447m (06030924)
386292.51	3756380.71	34.07569m (06030924)	386327.29	3756380.71	37.24520c (05122924)
386188.17	3756408.15	32.56866 (07121824)	386222.95	3756408.15	29.70391m (06030924)
386257.73	3756408.15	34.15429m (06030924)	386292.51	3756408.15	36.44954m (06030924)
386327.29	3756408.15	39.19684c (05122924)	386188.17	3756435.59	37.49065 (07121824)
386222.95	3756435.59	34.76853 (07121824)	386257.73	3756435.59	36.00120m (06030924)
386292.51	3756435.59	38.85541m (06030924)	386327.29	3756435.59	41.33784c (05122924)
386188.17	3756463.03	42.60724 (07121824)	386222.95	3756463.03	40.70913 (07121824)
386257.73	3756463.03	37.86923m (06030924)	386292.51	3756463.03	42.00904c (06010824)
386327.29	3756463.03	43.86086m (06030924)	386188.17	3756490.47	47.62839 (07121824)
386222.95	3756490.47	46.99607 (07121824)	386257.73	3756490.47	43.94596 (07121824)
386292.51	3756490.47	46.10177c (06010824)	386327.29	3756490.47	47.57785m (06030924)
386188.17	3756517.91	52.38511 (07121824)	386222.95	3756517.91	53.30568 (07121824)
386257.73	3756517.91	51.92146 (07121824)	386292.51	3756517.91	50.48893c (06010824)
386327.29	3756517.91	52.78265 (06012524)	386188.17	3756545.35	56.93941 (07121824)
386222.95	3756545.35	59.56643 (07121824)	386257.73	3756545.35	60.36773 (07121824)
386292.51	3756545.35	55.14270c (06010824)	386327.29	3756545.35	60.69971 (06012524)
386188.17	3756572.79	61.33457 (07121824)	386222.95	3756572.79	66.11651 (07121824)
386257.73	3756572.79	69.41536 (07121824)	386292.51	3756572.79	65.38285 (07121824)
386327.29	3756572.79	69.78649 (06012524)	386188.17	3756600.23	64.84543 (07121824)
386222.95	3756600.23	73.38847 (07121824)	386257.73	3756600.23	79.85968 (07121824)
386292.51	3756600.23	77.69017 (07121824)	386327.29	3756600.23	80.28071 (06012524)
386188.17	3756627.67	66.30116 (07121824)	386222.95	3756627.67	81.91329 (07121824)
386257.73	3756627.67	92.75173 (07121824)	386292.51	3756627.67	93.58468 (07121824)
386327.29	3756627.67	93.13268 (06012524)	386188.17	3756655.11	65.01877 (07121824)
386222.95	3756655.11	93.81664 (07121824)	386257.73	3756655.11	111.26731 (07121824)
386292.51	3756655.11	116.10234 (07121824)	386327.29	3756655.11	113.56704 (07121824)
386188.17	3756682.55	76.74560c (05020624)	386188.17	3756709.99	93.12064c (05020624)
386188.17	3756737.43	83.74524c (05020624)	386188.17	3756764.87	59.45255c (05020624)
386188.17	3756792.31	42.14714c (05122624)	386188.17	3756819.75	50.09573b (05041824)
386222.95	3756819.75	74.04960b (05041824)	386257.73	3756819.75	75.88627b (05041824)
386292.51	3756819.75	79.99787b (05041824)	386327.29	3756819.75	108.78481c (05020624)
386188.17	3756847.19	53.94415b (05041824)	386222.95	3756847.19	61.32376b (05041824)
386257.73	3756847.19	62.93439b (05041824)	386292.51	3756847.19	68.01608b (05041824)
386327.29	3756847.19	102.65873b (05041824)	386188.17	3756874.63	52.24537b (05041824)
386222.95	3756874.63	54.52653b (05041824)	386257.73	3756874.63	56.58454b (05041824)
386292.51	3756874.63	68.00386b (05041824)	386327.29	3756874.63	112.23395b (05041824)

\*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site \*\*\* 07/15/10  
 \*\*\* 12:52:08  
 PAGE 8

\*\*\* MODELOPTs: RegDFault CONC

ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREAL , PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM2.5 IN MICROGRAMS/M\*\*3 \*\*

## Localized PM2.5 Analysis – On-Site Unmitigated

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
386188.17	3756902.07	48.79450b	(05041824)	386222.95	3756902.07	50.11752b	(05041824)
386257.73	3756902.07	54.94433b	(05041824)	386292.51	3756902.07	72.91903b	(05041824)
386327.29	3756902.07	119.86647b	(05041824)				

\*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site \*\*\*  
 \*\*\*  
 \*\*

\*\*MODELOPTs: RegDEFAULT CONC  
 ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM2.5 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE	(YYMMDDHH)	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	119.86647b	ON 05041824:	AT (	386327.29, 3756902.07, 0.00, 0.00, 0.00)	DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\*  
 \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Unmitigated On-site \*\*\*  
 \*\*\*  
 \*\*

\*\*MODELOPTs: RegDEFAULT CONC  
 ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 0 Warning Message(s)  
 A Total of 3086 Informational Message(s)  
 A Total of 26280 Hours Were Processed  
 A Total of 2622 Calm Hours Identified  
 A Total of 464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

# Localized PM2.5 Analysis – On-Site Mitigated

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.5.0
** Lakes Environmental Software Inc.
** Date: 7/15/2010
** File: C:\Documents and Settings\ssilverman\Desktop\Jordans Localized\On-Site\Mitigated\PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaan Downs Localized PM2.5 Concentrations -Mitigated On-site
MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION PAREAL AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Exhaust
LOCATION PAREA2 AREAPOLY 386351.234 3756898.553 0.000
** DESCRSRC Dust
** Source Parameters **
SRCPARAM PAREAL 2.135E-06 5.000 6
AREAVERT PAREAL 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREAL 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREAL 386533.807 3756706.995 386504.442 3756899.103
SRCPARAM PAREA2 9.793E-06 0.000 6 0.000
AREAVERT PAREA2 386351.234 3756898.553 386354.051 3756778.922
AREAVERT PAREA2 386234.457 3756779.472 386237.005 3756703.909
AREAVERT PAREA2 386533.807 3756706.995 386504.442 3756899.103
URBANSRC PAREAL
URBANSRC PAREA2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
DISCCART 386188.17 3756353.27 0.00 0.00
DISCCART 386222.95 3756353.27 0.00 0.00
DISCCART 386257.73 3756353.27 0.00 0.00
DISCCART 386292.51 3756353.27 0.00 0.00
DISCCART 386327.29 3756353.27 0.00 0.00
DISCCART 386188.17 3756380.71 0.00 0.00
DISCCART 386222.95 3756380.71 0.00 0.00
DISCCART 386257.73 3756380.71 0.00 0.00
DISCCART 386292.51 3756380.71 0.00 0.00
DISCCART 386327.29 3756380.71 0.00 0.00
DISCCART 386188.17 3756408.15 0.00 0.00
DISCCART 386222.95 3756408.15 0.00 0.00
DISCCART 386257.73 3756408.15 0.00 0.00
DISCCART 386292.51 3756408.15 0.00 0.00
DISCCART 386327.29 3756408.15 0.00 0.00
DISCCART 386188.17 3756435.59 0.00 0.00
DISCCART 386222.95 3756435.59 0.00 0.00
DISCCART 386257.73 3756435.59 0.00 0.00
DISCCART 386292.51 3756435.59 0.00 0.00
DISCCART 386327.29 3756435.59 0.00 0.00
DISCCART 386188.17 3756463.03 0.00 0.00
DISCCART 386222.95 3756463.03 0.00 0.00
DISCCART 386257.73 3756463.03 0.00 0.00
DISCCART 386292.51 3756463.03 0.00 0.00
DISCCART 386327.29 3756463.03 0.00 0.00
DISCCART 386188.17 3756490.47 0.00 0.00
DISCCART 386222.95 3756490.47 0.00 0.00
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DISCCART 386188.17 3756517.91 0.00 0.00
DISCCART 386222.95 3756517.91 0.00 0.00
DISCCART 386257.73 3756517.91 0.00 0.00
DISCCART 386292.51 3756517.91 0.00 0.00
DISCCART 386327.29 3756517.91 0.00 0.00
DISCCART 386188.17 3756545.35 0.00 0.00
DISCCART 386222.95 3756545.35 0.00 0.00
DISCCART 386257.73 3756545.35 0.00 0.00
DISCCART 386292.51 3756545.35 0.00 0.00
DISCCART 386327.29 3756545.35 0.00 0.00
DISCCART 386188.17 3756572.79 0.00 0.00
DISCCART 386222.95 3756572.79 0.00 0.00
DISCCART 386257.73 3756572.79 0.00 0.00
DISCCART 386292.51 3756572.79 0.00 0.00
DISCCART 386327.29 3756572.79 0.00 0.00
DISCCART 386188.17 3756600.23 0.00 0.00
DISCCART 386222.95 3756600.23 0.00 0.00
DISCCART 386257.73 3756600.23 0.00 0.00
DISCCART 386292.51 3756600.23 0.00 0.00
DISCCART 386327.29 3756600.23 0.00 0.00
DISCCART 386188.17 3756627.67 0.00 0.00
DISCCART 386222.95 3756627.67 0.00 0.00
DISCCART 386257.73 3756627.67 0.00 0.00
DISCCART 386292.51 3756627.67 0.00 0.00
DISCCART 386327.29 3756627.67 0.00 0.00
```

# Localized PM2.5 Analysis – On-Site Mitigated

```
DISCCART 386188.17 3756655.11 0.00 0.00
DISCCART 386222.95 3756655.11 0.00 0.00
DISCCART 386257.73 3756655.11 0.00 0.00
DISCCART 386292.51 3756655.11 0.00 0.00
DISCCART 386327.29 3756655.11 0.00 0.00
DISCCART 386188.17 3756682.55 0.00 0.00
DISCCART 386188.17 3756709.99 0.00 0.00
DISCCART 386188.17 3756737.43 0.00 0.00
DISCCART 386188.17 3756764.87 0.00 0.00
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DISCCART 386257.73 3756819.75 0.00 0.00
DISCCART 386292.51 3756819.75 0.00 0.00
DISCCART 386327.29 3756819.75 0.00 0.00
DISCCART 386188.17 3756847.19 0.00 0.00
DISCCART 386222.95 3756847.19 0.00 0.00
DISCCART 386257.73 3756847.19 0.00 0.00
DISCCART 386292.51 3756847.19 0.00 0.00
DISCCART 386327.29 3756847.19 0.00 0.00
DISCCART 386188.17 3756874.63 0.00 0.00
DISCCART 386222.95 3756874.63 0.00 0.00
DISCCART 386257.73 3756874.63 0.00 0.00
DISCCART 386292.51 3756874.63 0.00 0.00
DISCCART 386327.29 3756874.63 0.00 0.00
DISCCART 386188.17 3756902.07 0.00 0.00
DISCCART 386222.95 3756902.07 0.00 0.00
DISCCART 386257.73 3756902.07 0.00 0.00
DISCCART 386292.51 3756902.07 0.00 0.00
DISCCART 386327.29 3756902.07 0.00 0.00
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
** ME STARTING
SURFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
SURFDATA 0 2005
UAIRDATA 3190 2005
PROFBASE 10 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
** OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** Auto-Generated Plotfiles
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT
OU FINISHED

*****
*** SETUP Finishes Successfully ***
*****

*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      ***      07/15/10
***                               ***                               ***                               ***                               ***      13:00:02
***                               ***                               ***                               ***                               ***      PAGE 1

**MODELOPTS: RegDEFAULT CONC          ELEV
                                         NODRYDPLT NOWETDPLT

*** MODEL SETUP OPTIONS SUMMARY ***
-----

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 85 Receptor(s)

**The Model Assumes A Pollutant Type of: PM2.5

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.
```

# Localized PM2.5 Analysis – On-Site Mitigated

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      13:00:02  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.21350E-05	386351.2	3756898.6	0.0	5.00	6	0.00	YES	
PAREA2	0	0.97930E-05	386351.2	3756898.6	0.0	0.00	6	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      13:00:02  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      PAREA1 , PAREA2 ,  
 \*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      13:00:02  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 386188.2, 3756353.3, 0.0, 0.0, 0.0);	( 386223.0, 3756353.3, 0.0, 0.0, 0.0);
( 386257.7, 3756353.3, 0.0, 0.0, 0.0);	( 386292.5, 3756353.3, 0.0, 0.0, 0.0);
( 386327.3, 3756353.3, 0.0, 0.0, 0.0);	( 386188.2, 3756380.7, 0.0, 0.0, 0.0);
( 386223.0, 3756380.7, 0.0, 0.0, 0.0);	( 386257.7, 3756380.7, 0.0, 0.0, 0.0);
( 386292.5, 3756380.7, 0.0, 0.0, 0.0);	( 386327.3, 3756380.7, 0.0, 0.0, 0.0);
( 386188.2, 3756408.1, 0.0, 0.0, 0.0);	( 386223.0, 3756408.1, 0.0, 0.0, 0.0);
( 386257.7, 3756408.1, 0.0, 0.0, 0.0);	( 386292.5, 3756408.1, 0.0, 0.0, 0.0);
( 386327.3, 3756408.1, 0.0, 0.0, 0.0);	( 386188.2, 3756435.6, 0.0, 0.0, 0.0);
( 386223.0, 3756435.6, 0.0, 0.0, 0.0);	( 386257.7, 3756435.6, 0.0, 0.0, 0.0);
( 386292.5, 3756435.6, 0.0, 0.0, 0.0);	( 386327.3, 3756435.6, 0.0, 0.0, 0.0);
( 386188.2, 3756463.0, 0.0, 0.0, 0.0);	( 386223.0, 3756463.0, 0.0, 0.0, 0.0);
( 386257.7, 3756463.0, 0.0, 0.0, 0.0);	( 386292.5, 3756463.0, 0.0, 0.0, 0.0);
( 386327.3, 3756463.0, 0.0, 0.0, 0.0);	( 386188.2, 3756490.5, 0.0, 0.0, 0.0);
( 386223.0, 3756490.5, 0.0, 0.0, 0.0);	( 386257.7, 3756490.5, 0.0, 0.0, 0.0);
( 386292.5, 3756490.5, 0.0, 0.0, 0.0);	( 386327.3, 3756490.5, 0.0, 0.0, 0.0);
( 386188.2, 3756517.9, 0.0, 0.0, 0.0);	( 386223.0, 3756517.9, 0.0, 0.0, 0.0);
( 386257.7, 3756517.9, 0.0, 0.0, 0.0);	( 386292.5, 3756517.9, 0.0, 0.0, 0.0);
( 386327.3, 3756517.9, 0.0, 0.0, 0.0);	( 386188.2, 3756545.3, 0.0, 0.0, 0.0);
( 386223.0, 3756545.3, 0.0, 0.0, 0.0);	( 386257.7, 3756545.3, 0.0, 0.0, 0.0);
( 386292.5, 3756545.3, 0.0, 0.0, 0.0);	( 386327.3, 3756545.3, 0.0, 0.0, 0.0);
( 386188.2, 3756572.8, 0.0, 0.0, 0.0);	( 386223.0, 3756572.8, 0.0, 0.0, 0.0);
( 386257.7, 3756572.8, 0.0, 0.0, 0.0);	( 386292.5, 3756572.8, 0.0, 0.0, 0.0);
( 386327.3, 3756572.8, 0.0, 0.0, 0.0);	( 386188.2, 3756600.2, 0.0, 0.0, 0.0);
( 386223.0, 3756600.2, 0.0, 0.0, 0.0);	( 386257.7, 3756600.2, 0.0, 0.0, 0.0);
( 386292.5, 3756600.2, 0.0, 0.0, 0.0);	( 386327.3, 3756600.2, 0.0, 0.0, 0.0);
( 386188.2, 3756627.7, 0.0, 0.0, 0.0);	( 386223.0, 3756627.7, 0.0, 0.0, 0.0);
( 386257.7, 3756627.7, 0.0, 0.0, 0.0);	( 386292.5, 3756627.7, 0.0, 0.0, 0.0);
( 386327.3, 3756627.7, 0.0, 0.0, 0.0);	( 386188.2, 3756655.1, 0.0, 0.0, 0.0);
( 386223.0, 3756655.1, 0.0, 0.0, 0.0);	( 386257.7, 3756655.1, 0.0, 0.0, 0.0);
( 386292.5, 3756655.1, 0.0, 0.0, 0.0);	( 386327.3, 3756655.1, 0.0, 0.0, 0.0);
( 386188.2, 3756682.5, 0.0, 0.0, 0.0);	( 386188.2, 3756710.0, 0.0, 0.0, 0.0);
( 386188.2, 3756737.4, 0.0, 0.0, 0.0);	( 386188.2, 3756764.9, 0.0, 0.0, 0.0);
( 386188.2, 3756792.3, 0.0, 0.0, 0.0);	( 386188.2, 3756819.8, 0.0, 0.0, 0.0);
( 386223.0, 3756819.8, 0.0, 0.0, 0.0);	( 386257.7, 3756819.8, 0.0, 0.0, 0.0);
( 386292.5, 3756819.8, 0.0, 0.0, 0.0);	( 386327.3, 3756819.8, 0.0, 0.0, 0.0);
( 386188.2, 3756847.2, 0.0, 0.0, 0.0);	( 386223.0, 3756847.2, 0.0, 0.0, 0.0);
( 386257.7, 3756847.2, 0.0, 0.0, 0.0);	( 386292.5, 3756847.2, 0.0, 0.0, 0.0);
( 386327.3, 3756847.2, 0.0, 0.0, 0.0);	( 386188.2, 3756874.6, 0.0, 0.0, 0.0);
( 386223.0, 3756874.6, 0.0, 0.0, 0.0);	( 386257.7, 3756874.6, 0.0, 0.0, 0.0);
( 386292.5, 3756874.6, 0.0, 0.0, 0.0);	( 386327.3, 3756874.6, 0.0, 0.0, 0.0);
( 386188.2, 3756902.1, 0.0, 0.0, 0.0);	( 386223.0, 3756902.1, 0.0, 0.0, 0.0);
( 386257.7, 3756902.1, 0.0, 0.0, 0.0);	( 386292.5, 3756902.1, 0.0, 0.0, 0.0);
( 386327.3, 3756902.1, 0.0, 0.0, 0.0);	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      13:00:02  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
 (1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      \*\*\*      07/15/10  
 \*\*\*      \*\*\*      \*\*\*      \*\*\*      13:00:02  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
 NODRYDPLT NOWETDPLT



Localized PM2.5 Analysis – On-Site Mitigated

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC Met Version: 06341
Profile file: L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Year: 2005 Name: UNKNOWN Year: 2005

Table with 15 columns: YR MO DY JDY HR HO U\* W\* DT/DZ ZLCNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS WD HT REF TA HT. Contains 24 rows of meteorological data.

Table with 7 columns: YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV. Contains 3 rows of profile data.

F indicates top of profile (-1) or below (-0)
\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site \*\*\* 07/15/10
\*\*\* 13:00:02
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Table with 6 columns: X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMDDHH). Contains a list of discrete Cartesian receptor points with coordinates and concentrations.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site \*\*\* 07/15/10
\*\*\* 13:00:02
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Table with 6 columns: X-COORD (M) Y-COORD (M) CONC (YYMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMDDHH). Contains a second list of discrete Cartesian receptor points.

# Localized PM2.5 Analysis – On-Site Mitigated

```

X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)
-----
386188.17    3756902.07    48.37545b (05041824)    386222.95    3756902.07    49.66711b (05041824)
386257.73    3756902.07    54.44314b (05041824)    386292.51    3756902.07    72.27786b (05041824)
386327.29    3756902.07    118.90311b (05041824)
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      ***      07/15/10
***                                     ***                                     ***                                     ***      13:00:02
***                                     ***                                     ***                                     ***      PAGE      9

```

```

**MODELOPTs:  RegDEFAULT CONC
                                     ELEV
                                     NODRYDPLT NOWETDPLT
*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

```

\*\* CONC OF PM2.5 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	118.90311b ON 05041824: AT (	386327.29, 3756902.07,	0.00, 0.00, 0.00)	DC

```

*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Localized PM2.5 Concentrations -Mitigated On-site      ***      07/15/10
***                                     ***                                     ***                                     ***      13:00:02
***                                     ***                                     ***                                     ***      PAGE     10
**MODELOPTs:  RegDEFAULT CONC
                                     ELEV
                                     NODRYDPLT NOWETDPLT

```

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

```

A Total of      0 Fatal Error Message(s)
A Total of      0 Warning Message(s)
A Total of    3086 Informational Message(s)

A Total of    26280 Hours Were Processed
A Total of     2622 Calm Hours Identified
A Total of      464 Missing Hours Identified ( 1.77 Percent)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

## Appendix E

# Regional Operational Emissions

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future No Project Operations\JD Vehicles Existing.urb924

Project Name: Jordan Downs Future No Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	36.75	7.71	6.69	0.00	0.02	0.02	9,733.18

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	26.00	28.26	281.43	0.58	93.70	18.22	56,510.06

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	62.75	35.97	288.12	0.58	93.72	18.24	66,243.24

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.59	7.67	3.60	0.00	0.01	0.01	9,727.56
Hearth							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	35.91						
Architectural Coatings							
TOTALS (lbs/day, unmitigated)	36.75	7.71	6.69	0.00	0.02	0.02	9,733.18

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	18.29	19.64	196.15	0.40	64.98	12.64	39,221.68
General light industry	7.71	8.62	85.28	0.18	28.72	5.58	17,288.38
TOTALS (lbs/day, unmitigated)	26.00	28.26	281.43	0.58	93.70	18.22	56,510.06

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 80 Season: Summer

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	18.42	5.32	dwelling units	700.00	3,724.00	37,622.83
General light industry		5.92	1000 sq ft	262.00	1,551.04	16,634.90
					5,275.04	54,257.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future No Project Operations\JD Vehicles Existing.urb924

Project Name: Jordan Downs Future No Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	36.50	7.67	3.60	0.00	0.01	0.01	9,727.56

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	26.47	33.98	263.72	0.48	93.70	18.22	51,127.98

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	62.97	41.65	267.32	0.48	93.71	18.23	60,855.54



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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.59	7.67	3.60	0.00	0.01	0.01	9,727.56
Hearth							
Landscaping - No Winter Emissions							
Consumer Products	35.91						
Architectural Coatings							
<b>TOTALS (lbs/day, unmitigated)</b>	<b>36.50</b>	<b>7.67</b>	<b>3.60</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>9,727.56</b>

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	18.53	23.61	184.11	0.33	64.98	12.64	35,489.69
General light industry	7.94	10.37	79.61	0.15	28.72	5.58	15,638.29
<b>TOTALS (lbs/day, unmitigated)</b>	<b>26.47</b>	<b>33.98</b>	<b>263.72</b>	<b>0.48</b>	<b>93.70</b>	<b>18.22</b>	<b>51,127.98</b>

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 60 Season: Winter

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	18.42	5.32	dwelling units	700.00	3,724.00	37,622.83
General light industry		5.92	1000 sq ft	262.00	1,551.04	16,634.90
					5,275.04	54,257.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future No Project Operations\JD Vehicles Existing.urb924

Project Name: Jordan Downs Future No Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	6.70	1.41	1.22	0.00	0.00	0.00	1,776.31

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	4.77	5.51	50.28	0.10	17.10	3.33	9,985.68

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	11.47	6.92	51.50	0.10	17.10	3.33	11,761.99

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.11	1.40	0.66	0.00	0.00	0.00	1,775.28
Hearth							
Landscape	0.04	0.01	0.56	0.00	0.00	0.00	1.03
Consumer Products	6.55						
Architectural Coatings							
TOTALS (tons/year, unmitigated)	6.70	1.41	1.22	0.00	0.00	0.00	1,776.31

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	3.35	3.83	35.06	0.07	11.86	2.31	6,930.93
General light industry	1.42	1.68	15.22	0.03	5.24	1.02	3,054.75
TOTALS (tons/year, unmitigated)	4.77	5.51	50.28	0.10	17.10	3.33	9,985.68

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Season: Annual

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	18.42	5.32	dwelling units	700.00	3,724.00	37,622.83
General light industry		5.92	1000 sq ft	262.00	1,551.04	16,634.90
					5,275.04	54,257.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future Operations\JD Vehicles Future.urb924

Project Name: Jordan Downs Future Plus Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	95.19	21.42	25.95	0.00	0.10	0.10	26,828.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	96.18	103.37	1,022.88	2.10	342.75	66.61	206,463.73

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	191.37	124.79	1,048.83	2.10	342.85	66.71	233,291.79



Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.62	21.21	10.50	0.00	0.04	0.04	26,799.97
Hearth							
Landscape	1.23	0.21	15.45	0.00	0.06	0.06	28.09
Consumer Products	92.34						
Architectural Coatings							
TOTALS (lbs/day, unmitigated)	95.19	21.42	25.95	0.00	0.10	0.10	26,828.06

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments mid rise	36.64	39.36	393.04	0.80	130.20	25.32	78,590.81
Condo/townhouse general	9.39	9.81	97.97	0.20	32.45	6.31	19,589.78
Elementary school	5.89	3.59	34.74	0.07	11.89	2.31	7,132.05
High school	7.62	5.27	50.53	0.11	17.39	3.38	10,423.06
Library	1.65	1.90	18.11	0.04	6.26	1.21	3,746.28
City park	0.11	0.07	0.69	0.00	0.24	0.05	143.43
Racquetball/health	0.56	0.65	6.17	0.01	2.13	0.41	1,275.33
General office building	6.05	7.19	70.32	0.15	23.86	4.63	14,339.19
Government (civic center)	0.10	0.12	1.11	0.00	0.38	0.07	228.01
General light industry	28.17	35.41	350.20	0.72	117.95	22.92	70,995.79
<b>TOTALS (lbs/day, unmitigated)</b>	<b>96.18</b>	<b>103.37</b>	<b>1,022.88</b>	<b>2.10</b>	<b>342.75</b>	<b>66.61</b>	<b>206,463.73</b>

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	36.84	5.33	dwelling units	1,400.00	7,462.00	75,387.09

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	25.00	4.65	dwelling units	400.00	1,860.00	18,791.21
Elementary school		1.10	students	650.00	715.00	6,885.45
High school		1.45	students	750.00	1,087.50	10,075.69
Library		7.98	1000 sq ft	50.00	399.00	3,623.92
City park		1.34	acres	11.40	15.28	138.74
Racquetball/health		7.99	1000 sq ft	17.00	135.83	1,233.68
General office building		9.30	1000 sq ft	146.00	1,357.80	13,819.01
Government (civic center)		7.93	1000 sq ft	3.00	23.79	220.41
General light industry		16.94	1000 sq ft	376.00	6,369.44	68,312.25
					19,425.64	198,487.45

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Elementary school	20.0	10.0	70.0
High school	10.0	5.0	85.0
Library	5.0	2.5	92.5
City park	5.0	2.5	92.5
Racquetball/health	5.0	2.5	92.5
General office building	35.0	17.5	47.5
Government (civic center)	10.0	5.0	85.0
General light industry	50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future Operations\JD Vehicles Future.urb924

Project Name: Jordan Downs Future Plus Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	93.96	21.21	10.50	0.00	0.04	0.04	26,799.97

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	97.16	124.26	958.57	1.75	342.75	66.61	186,774.82

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	191.12	145.47	969.07	1.75	342.79	66.65	213,574.79

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.62	21.21	10.50	0.00	0.04	0.04	26,799.97
Hearth							
Landscaping - No Winter Emissions							
Consumer Products	92.34						
Architectural Coatings							
TOTALS (lbs/day, unmitigated)	93.96	21.21	10.50	0.00	0.04	0.04	26,799.97

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments mid rise	37.12	47.31	368.90	0.67	130.20	25.32	71,112.80
Condo/townhouse general	9.38	11.79	91.95	0.17	32.45	6.31	17,725.79
Elementary school	4.60	4.32	32.67	0.06	11.89	2.31	6,449.05
High school	6.25	6.33	47.64	0.09	17.39	3.38	9,423.60
Library	1.71	2.28	17.10	0.03	6.26	1.21	3,386.81
City park	0.09	0.09	0.65	0.00	0.24	0.05	129.67
Racquetball/health	0.58	0.78	5.82	0.01	2.13	0.41	1,152.96
General office building	6.42	8.64	65.86	0.12	23.86	4.63	12,968.42
Government (civic center)	0.10	0.14	1.04	0.00	0.38	0.07	206.15
General light industry	30.91	42.58	326.94	0.60	117.95	22.92	64,219.57
<b>TOTALS (lbs/day, unmitigated)</b>	<b>97.16</b>	<b>124.26</b>	<b>958.57</b>	<b>1.75</b>	<b>342.75</b>	<b>66.61</b>	<b>186,774.82</b>

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	36.84	5.33	dwelling units	1,400.00	7,462.00	75,387.09

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	25.00	4.65	dwelling units	400.00	1,860.00	18,791.21
Elementary school		1.10	students	650.00	715.00	6,885.45
High school		1.45	students	750.00	1,087.50	10,075.69
Library		7.98	1000 sq ft	50.00	399.00	3,623.92
City park		1.34	acres	11.40	15.28	138.74
Racquetball/health		7.99	1000 sq ft	17.00	135.83	1,233.68
General office building		9.30	1000 sq ft	146.00	1,357.80	13,819.01
Government (civic center)		7.93	1000 sq ft	3.00	23.79	220.41
General light industry		16.94	1000 sq ft	376.00	6,369.44	68,312.25
					19,425.64	198,487.45

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0



Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Elementary school	20.0	10.0	70.0
High school	10.0	5.0	85.0
Library	5.0	2.5	92.5
City park	5.0	2.5	92.5
Racquetball/health	5.0	2.5	92.5
General office building	35.0	17.5	47.5
Government (civic center)	10.0	5.0	85.0
General light industry	50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: J:\Projects\Jordan Downs Redevelopment Project 2008-079\Air Quality\Operations\Future Operations\JD Vehicles Future.urb924

Project Name: Jordan Downs Future Plus Project

Project Location: South Coast AQMD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	17.37	3.91	4.74	0.00	0.02	0.02	4,896.12

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	17.62	20.14	182.75	0.36	62.54	12.16	36,481.88

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	34.99	24.05	187.49	0.36	62.56	12.18	41,378.00

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.30	3.87	1.92	0.00	0.01	0.01	4,890.99
Hearth							
Landscape	0.22	0.04	2.82	0.00	0.01	0.01	5.13
Consumer Products	16.85						
Architectural Coatings							
TOTALS (tons/year, unmitigated)	17.37	3.91	4.74	0.00	0.02	0.02	4,896.12

Area Source Changes to Defaults

7/15/2010 5:18:59 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments mid rise	6.72	7.67	70.26	0.14	23.76	4.62	13,887.91
Condo/townhouse general	1.71	1.91	17.51	0.03	5.92	1.15	3,461.74
Elementary school	1.00	0.70	6.21	0.01	2.17	0.42	1,260.05
High school	1.31	1.03	9.05	0.02	3.17	0.62	1,841.41
Library	0.30	0.37	3.24	0.01	1.14	0.22	661.83
City park	0.02	0.01	0.12	0.00	0.04	0.01	25.34
Racquetball/health	0.10	0.13	1.10	0.00	0.39	0.08	225.30
General office building	1.13	1.40	12.56	0.03	4.35	0.85	2,533.51
Government (civic center)	0.02	0.02	0.20	0.00	0.07	0.01	40.28
General light industry	5.31	6.90	62.50	0.12	21.53	4.18	12,544.51
<b>TOTALS (tons/year, unmitigated)</b>	<b>17.62</b>	<b>20.14</b>	<b>182.75</b>	<b>0.36</b>	<b>62.54</b>	<b>12.16</b>	<b>36,481.88</b>

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	36.84	5.33	dwelling units	1,400.00	7,462.00	75,387.09

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	25.00	4.65	dwelling units	400.00	1,860.00	18,791.21
Elementary school		1.10	students	650.00	715.00	6,885.45
High school		1.45	students	750.00	1,087.50	10,075.69
Library		7.98	1000 sq ft	50.00	399.00	3,623.92
City park		1.34	acres	11.40	15.28	138.74
Racquetball/health		7.99	1000 sq ft	17.00	135.83	1,233.68
General office building		9.30	1000 sq ft	146.00	1,357.80	13,819.01
Government (civic center)		7.93	1000 sq ft	3.00	23.79	220.41
General light industry		16.94	1000 sq ft	376.00	6,369.44	68,312.25
					19,425.64	198,487.45

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Elementary school	20.0	10.0	70.0
High school	10.0	5.0	85.0
Library	5.0	2.5	92.5
City park	5.0	2.5	92.5
Racquetball/health	5.0	2.5	92.5
General office building	35.0	17.5	47.5
Government (civic center)	10.0	5.0	85.0
General light industry	50.0	25.0	25.0

## GHG Emissions Summary

Project		Metric Tons/Year		
Source	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	
Mobile <sup>a</sup>	23,451	--	--	
Natural Gas	4,451	3.4	13.7	
General Electricity	6,991	1.2	10.0	
Water Cycle Electricity	1,707	0.3	2.4	
Solid Waste Decomposition	19,678	--	--	
Construction	3,454	--	--	
<b>TOTAL</b>			<b>59,764</b>	

Existing		Metric Tons/Year		
Source	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	
Mobile <sup>a</sup>	60	--	--	
Natural Gas	1,615	1.5	5.8	
General Electricity	2,813	0.5	4.0	
Water Cycle Electricity	1,642	0.3	2.3	
Solid Waste Decomposition	6,511	--	--	
<b>TOTAL</b>			<b>12,655</b>	

<b>Total CO<sub>2</sub>e Emissions</b>	<b>47,109</b>
--	---------------

a) Obtained from Jordan Downs Specific Plan Mobile Source Greenhouse Gas Emissions Analysis (TAHA, June 28, 2010).

## Water Cycle Electrical GHG Emissions

### INPUTS

<b>Scenario</b>	<b>Potable Water (GPD)<sup>a</sup></b>	<b>Waste Water (GPD)<sup>a</sup></b>	<b>Water Use (MG/yr)</b>	<b>Kwh/Yr<sup>b</sup></b>
Proposed Project	522,419	482,919	366.95	4,660,244.2990
Existing	527,377	439,464	352.90	4,481,791.4555

### Water Cycle Usage Factor

<b>Unit</b>	<b>Usage Factor<sup>b</sup></b>
Kilowatt-Hour/Million Gallons/Year	12,700

### Emission Factor (pounds/Kwh)<sup>c</sup>

	<b>N<sub>2</sub>O</b>	<b>CH<sub>4</sub></b>	<b>CO<sub>2</sub></b>
	0.0000037	0.0000067	0.8050000

### Estimated Greenhouse Gas Emissions

<b>Land Use</b>	<b>N<sub>2</sub>O</b> tons	<b>CH<sub>4</sub></b> tons	<b>CO<sub>2</sub></b> tons
Project	0.0086	0.0156	1876
Existing	0.0083	0.0150	1804

### OUTPUTS

#### Estimated Carbon Equivalent (Electricity)

<b>Land Use</b>	<b>N<sub>2</sub>O</b>	<b>CH<sub>4</sub></b>	<b>CO<sub>2</sub></b>
<b>Carbon Equivalent</b>	<b>310</b>	<b>21</b>	<b>1</b>
	tons	tons	tons
Project	2.4321	0.2983	1706.9310
Existing	2.3390	0.2869	1641.5682

a) Water use obtained from Section IV.Q (Utilities and Service Systems) of the DEIR.

b) Water cycle electricity rate obtained from California Energy Commission 2005 *Integrated Energy Policy Report*, November 2005.

c) California Climate Action Registry, *General Reporting Protocol*, March 2007.



## Electricity GHG Emissions

<b>INPUTS</b>	
<b>Scenario</b>	<b>Electricity Usage (Kwh/Yr)<sup>a</sup></b>
Project	19,088,000
Existing	7,679,450

<b>Emission Factor (pounds/Kwh)<sup>b</sup></b>	<b>N<sub>2</sub>O</b>	<b>CH<sub>4</sub></b>	<b>CO<sub>2</sub></b>
	0.0000037	0.0000067	0.8050000

<b>Estimated Greenhouse Gas Emissions (Electricity)</b>			
	<b>N<sub>2</sub>O</b>	<b>CH<sub>4</sub></b>	<b>CO<sub>2</sub></b>
	tons	tons	tons
Project	0.035313	0.063945	7682.9200
Existing	0.014207	0.025726	3090.9786

<b>OUTPUTS</b>			
<b>Estimated Carbon Equivalent (Electricity)</b>			
<b>Carbon Equivalent</b>	<b>N<sub>2</sub>O</b>	<b>CH<sub>4</sub></b>	<b>CO<sub>2</sub></b>
	310	21	1
	tonnes	tonnes	tonnes
Project	10	1.2	6,991
Existing	4	0.5	2,813

a) General electricity usage rates obtained from Section IV.Q (Utilities and Service Systems) of the DEIR.

b) California Climate Action Registry, *General Reporting Protocol*, March 2007.

## Natural Gas GHG Emissions

### INPUTS

Scenario	Natural Gas Use (cubic ft./month) <sup>a</sup>	Natural Gas Use (mmBTU/year)
Proposed Project	10,099,820	121,198
Existing	4,286,470	51,438

Emission Factor (kg/mmBTU) <sup>b</sup>		
	N <sub>2</sub> O	CH <sub>4</sub>
	0.0001	0.01

Estimated Greenhouse Gas Emissions (Natural Gas)		
Land Use	N <sub>2</sub> O tons	CH <sub>4</sub> tons
Project	0.012119784	7.15E-01
Existing	0.0051438	0.303482

### OUTPUTS

Estimated Carbon Equivalent (Natural Gas)			
Land Use	CO <sub>2</sub> <sup>c</sup>	N <sub>2</sub> O	CH <sub>4</sub>
Carbon Equivalent	1	310	21
	tonnes	tonnes	tonnes
Project	4,451	3.4	14
Existing	1,615	1.5	6

a) Natural gas use obtained from Section IV.Q (Utilities and Service Systems) of the DEIR.

b) California Climate Action Registry, *General Reporting Protocol*, March, 2007.

c) CO<sub>2</sub> emissions from URBEMIS2007 and converted to metric tons.

**Solid Waste GHG Emissions**

**INPUTS**

<b>Scenario</b>	<b>Waste (pounds/day)<sup>a</sup></b>	<b>Waste (tons/yr)</b>
Proposed Project	34,783	6,348
Existing	11,508	2,100

	<b>Rate<sup>a</sup>(Metric Tons Per Short Ton CO<sub>2</sub>e )</b>	<b>Project Emissions</b>	<b>Existing Emissions</b>
Emissions	3.1	19,678	6,511

a) Waste obtained from Section IV.Q (Utilities and Service Systems) of the DEIR.

b) U.S. Environmental Protection Agency. 2009. Waste Reduction Model (WARM), (Step 5: View Emission/Energy Factors).

## Construction Emissions

Scenario	Maximum Daily Emissions (Tons) <sup>a</sup>	Construction Period (Years) <sup>b</sup>	Correction Factor <sup>c</sup>	Emissions
Soil Remediation	40,624.89	0.5	0.7	14,219
Phase 1	25,517.11	2.5	0.5	31,896
Phase 2	25,543.94	1.5	0.5	19,158
Phase 3	25,563.54	1.5	0.5	19,173
Phase 4	25,576.95	1.5	0.5	19,183
			<b>Total</b>	<b>103,628</b>

a) Construction emissions obtained from the air quality construction spreadsheet.

b) Construction period estimated based on a 7-year construction schedule.

c) Correction factor is a reasonable assumption accounting for an average day of construction intensity.

# Appendix F

## SCAQMD Rule 403

(Adopted May 7, 1976) (Amended November 6, 1992)  
(Amended July 9, 1993) (Amended February 14, 1997)  
(Amended December 11, 1998)(Amended April 2, 2004)  
(Amended June 3, 2005)

**RULE 403. FUGITIVE DUST**

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.
- (10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.
- (11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

- (14) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (15) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (16) **EARTH-MOVING ACTIVITIES** means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (17) **DUST CONTROL SUPERVISOR** means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (18) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (19) **HIGH WIND CONDITIONS** means that instantaneous wind speeds exceed 25 miles per hour.
- (20) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (21) **LARGE OPERATIONS** means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic



meters (5,000 cubic yards) or more three times during the most recent 365-day period.

- (22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (25) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (29) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

- (31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
  - (32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
  - (34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
  - (35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
  - (37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

- (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
  - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
- (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
- (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:
- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

- (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
  - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).
- (6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.
- (e) Additional Requirements for Large Operations
- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
    - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
    - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
    - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

- (D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
  - (E) identify a dust control supervisor that:
    - (i) is employed by or contracted with the property owner or developer;
    - (ii) is on the site or available on-site within 30 minutes during working hours;
    - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
    - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
  - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).
- (2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).
- (f) **Compliance Schedule**  
The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

- (A) Dairy farms.
- (B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.
- (C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.
- (D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.

- (F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
  - (G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
  - (H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
  - (I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
  - (J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:
    - (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
    - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
  - (K) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:

- (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
    - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
  - (B) To unpaved roads, provided such roads:
    - (i) are used solely for the maintenance of wind-generating equipment; or
    - (ii) are unpaved public alleys as defined in Rule 1186; or
    - (iii) are service roads that meet all of the following criteria:
      - (a) are less than 50 feet in width at all points along the road;
      - (b) are within 25 feet of the property line; and
      - (c) have a traffic volume less than 20 vehicle-trips per day.
  - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.
- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
  - (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
    - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
    - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
  - (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for



each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM<sub>10</sub> pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	<ul style="list-style-type: none"> <li>✓ Mix backfill soil with water prior to moving</li> <li>✓ Dedicate water truck or high capacity hose to backfilling equipment</li> <li>✓ Empty loader bucket slowly so that no dust plumes are generated</li> <li>✓ Minimize drop height from loader bucket</li> </ul>
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	<ul style="list-style-type: none"> <li>✓ Maintain live perennial vegetation where possible</li> <li>✓ Apply water in sufficient quantity to prevent generation of dust plumes</li> </ul>
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	<ul style="list-style-type: none"> <li>✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements</li> </ul>
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	<ul style="list-style-type: none"> <li>✓ Follow permit conditions for crushing equipment</li> <li>✓ Pre-water material prior to loading into crusher</li> <li>✓ Monitor crusher emissions opacity</li> <li>✓ Apply water to crushed material to prevent dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Cut and fill	<p>05-1 Pre-water soils prior to cut and fill activities; and</p> <p>05-2 Stabilize soil during and after cut and fill activities.</p>	<ul style="list-style-type: none"> <li>✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration</li> <li>✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts</li> </ul>
Demolition – mechanical/manual	<p>06-1 Stabilize wind erodible surfaces to reduce dust; and</p> <p>06-2 Stabilize surface soil where support equipment and vehicles will operate; and</p> <p>06-3 Stabilize loose soil and demolition debris; and</p> <p>06-4 Comply with AQMD Rule 1403.</p>	<ul style="list-style-type: none"> <li>✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Disturbed soil	<p>07-1 Stabilize disturbed soil throughout the construction site; and</p> <p>07-2 Stabilize disturbed soil between structures</p>	<ul style="list-style-type: none"> <li>✓ Limit vehicular traffic and disturbances on soils where possible</li> <li>✓ If interior block walls are planned, install as early as possible</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Earth-moving activities	<p>08-1 Pre-apply water to depth of proposed cuts; and</p> <p>08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and</p> <p>08-3 Stabilize soils once earth-moving activities are complete.</p>	<ul style="list-style-type: none"> <li>✓ Grade each project phase separately, timed to coincide with construction phase</li> <li>✓ Upwind fencing can prevent material movement on site</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

<b>Source Category</b>	<b>Control Measure</b>	<b>Guidance</b>
Importing/exporting of bulk materials	<p>09-1 Stabilize material while loading to reduce fugitive dust emissions; and</p> <p>09-2 Maintain at least six inches of freeboard on haul vehicles; and</p> <p>09-3 Stabilize material while transporting to reduce fugitive dust emissions; and</p> <p>09-4 Stabilize material while unloading to reduce fugitive dust emissions; and</p> <p>09-5 Comply with Vehicle Code Section 23114.</p>	<ul style="list-style-type: none"> <li>✓ Use tarps or other suitable enclosures on haul trucks</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>✓ Comply with track-out prevention/mitigation requirements</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1 Stabilize soils, materials, slopes	<ul style="list-style-type: none"> <li>✓ Apply water to materials to stabilize</li> <li>✓ Maintain materials in a crusted condition</li> <li>✓ Maintain effective cover over materials</li> <li>✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>✓ Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	<p>11-1 Apply water to unpaved shoulders prior to clearing; and</p> <p>11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.</p>	<ul style="list-style-type: none"> <li>✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	<ul style="list-style-type: none"> <li>✓ Dedicate water truck or high capacity hose to screening operation</li> <li>✓ Drop material through the screen slowly and minimize drop height</li> <li>✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	<ul style="list-style-type: none"> <li>✓ Limit size of staging area</li> <li>✓ Limit vehicle speeds to 15 miles per hour</li> <li>✓ Limit number and size of staging area entrances/exists</li> </ul>
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul style="list-style-type: none"> <li>✓ Add or remove material from the downwind portion of the storage pile</li> <li>✓ Maintain storage piles to avoid steep sides or faces</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	<ul style="list-style-type: none"> <li>✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes</li> </ul>
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	<ul style="list-style-type: none"> <li>✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching</li> <li>✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment</li> </ul>
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	<ul style="list-style-type: none"> <li>✓ Empty loader bucket such that no visible dust plumes are created</li> <li>✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	<ul style="list-style-type: none"> <li>✓ Haul waste material immediately off-site</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	<p>19-1 Stabilize soils to meet the applicable performance standards; and</p> <p>19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.</p>	<p>✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements</p>
Vacant land	<p>20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.</p>	

**Table 2**  
**DUST CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving (except construction cutting and filling areas, and mining operations)</b>	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
<b>Earth-moving: Construction fill areas:</b>	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>



Table 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving: Construction cut areas and mining operations:</b>	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
<b>Disturbed surface areas (except completed grading areas)</b>	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
<b>Disturbed surface areas: Completed grading areas</b>	(2c) Apply chemical stabilizers within five working days of grading completion; OR  (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
<b>Inactive disturbed surface areas</b>	(3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR  (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR  (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR  (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Unpaved Roads</b>	<p>(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR</p> <p>(4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR</p> <p>(4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.</p>
<b>Open storage piles</b>	<p>(5a) Apply chemical stabilizers; OR</p> <p>(5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR</p> <p>(5c) Install temporary coverings; OR</p> <p>(5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.</p>
<b>All Categories</b>	<p>(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.</p>

**TABLE 3**  
**CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL MEASURES</b>
<b>Earth-moving</b>	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
<b>Disturbed surface areas</b>	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
<b>Unpaved roads</b>	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
<b>Open storage piles</b>	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
<b>Paved road track-out</b>	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
<b>All Categories</b>	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

**Table 4**  
**(Conservation Management Practices for Confined Animal Facilities)**

<b>SOURCE CATEGORY</b>	<b>CONSERVATION MANAGEMENT PRACTICES</b>
<b>Manure Handling</b>  (Only applicable to Commercial Poultry Ranches)	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
<b>Feedstock Handling</b>	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
<b>Disturbed Surfaces</b>	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
<b>Unpaved Roads</b>	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
<b>Equipment Parking Areas</b>	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

## Appendix G

### Localized PM2.5 Train Emissions

### Train Particulate Emissions

Railroad Emissions - Entire Corridor				EMISSIONS (pounds/day)						
Vehicle Type	Round Trip (miles)	Trip Duration (hours)	Daily Trips (trips)	ROG	NOX	CO	SOX	PM10	PM2.5	CO2
Railcars	25.0	0.8	66	-	-	-	-	28.22	25.96	-

Railroad Emissions - Entire Corridor				EMISSIONS (grams/day)						
Vehicle Type	Round Trip (miles)	Trip Duration (hours)	Daily Trips (trips)	ROG	NOX	CO	SOX	PM10	PM2.5	CO2
Railcars	25.0	0.75	66	-	-	-	-	12,800.21	11,776.19	-

Railroad Emissions - Stretch Near Project				EMISSIONS (grams/day)						
Vehicle Type	Round Trip (miles)	Trip Duration (hours)	Daily Trips (trips)	ROG	NOX	CO	SOX	PM10	PM2.5	CO2
Railcars	1.3	0.04	66	-	-	-	-	670.73	617.07	-

Grams Per Hour  
1.081741058

Grams Per Second  
0.0003

#### Emissions Factors

bhp*	ROG	NOX	CO	SOX	PM	PM2.5	CO2
Switch locomotive 5444	0.00	0.00	0.00	0.00	0.05	0.04	0.00

#### Pounds

ROG	NOX	CO	SOX	PM10	PM2.5	CO2
0.00	0.00	0.00	0.00	0.57	0.52	0.00

#### Pounds

ROG	NOX	CO	SOX	PM10	PM2.5	CO2
0.00	0.00	0.00	0.00	258.59	237.90	0.00

\*Assumes 4 trains per day, with 1361 bhp per train, as indicated in *Alameda Corridor Air Quality Benefits Report* by Weston Solutions, Inc., 2005.

\*\*Emission rates obtained from USEPA's *Emission Factors for Locomotives*. Study assumes a mix of Tier 3 and 4 locomotives, as indicated in the Weston Solutions study, 2005.

# Train PM2.5 Emissions

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 6.7.1
** Lakes Environmental Software Inc.
** Date: 11/3/2010
** File: C:\Documents and Settings\jbailey\Desktop\Jordans Localized\Train PM\Train.ADI
**
*****
**
**
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Jordaoa Downa Train PM2.5 Concentrations
MODELOPT DPAULT CONC NODRYDPLT NOWETDPLT
AVERTIME 24
URBANOPT 9862049
POLLUTID PM2.5
RUNORNOT RUN
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** Line Source represented by Separated Volume Sources
** -----
** LINE Source ID = SLINE1
** DESCRSRC
** Length of Side = 10.00
** Emission Rate = 0.0003
** Vertical Dimension = 0.00
** SZINIT = 0.00
** Nodes = 12
** 386400.62, 3757717.75, 30.00, 0.00, 0.0
** 386734.02, 3755633.98, 30.00, 0.00, 9.22
** -----
LOCATION L0000001 VOLUME 386401.479 3757712.822 30.00
LOCATION L0000002 VOLUME 386404.876 3757693.291 30.00
LOCATION L0000003 VOLUME 386408.273 3757673.760 30.00
LOCATION L0000004 VOLUME 386411.669 3757654.230 30.00
LOCATION L0000005 VOLUME 386415.066 3757634.699 30.00
LOCATION L0000006 VOLUME 386418.462 3757615.168 30.00
LOCATION L0000007 VOLUME 386421.859 3757595.637 30.00
LOCATION L0000008 VOLUME 386425.256 3757576.107 30.00
LOCATION L0000009 VOLUME 386428.652 3757556.576 30.00
LOCATION L0000010 VOLUME 386432.049 3757537.045 30.00
LOCATION L0000011 VOLUME 386435.446 3757517.514 30.00
LOCATION L0000012 VOLUME 386438.842 3757497.983 30.00
LOCATION L0000013 VOLUME 386442.239 3757478.453 30.00
LOCATION L0000014 VOLUME 386445.636 3757458.922 30.00
LOCATION L0000015 VOLUME 386449.032 3757439.391 30.00
LOCATION L0000016 VOLUME 386452.429 3757419.860 30.00
LOCATION L0000017 VOLUME 386455.826 3757400.330 30.00
LOCATION L0000018 VOLUME 386459.222 3757380.799 30.00
LOCATION L0000019 VOLUME 386462.619 3757361.268 30.00
LOCATION L0000020 VOLUME 386466.016 3757341.737 30.00
LOCATION L0000021 VOLUME 386469.413 3757322.206 30.00
LOCATION L0000022 VOLUME 386473.204 3757302.746 30.00
LOCATION L0000023 VOLUME 386476.782 3757283.248 30.00
LOCATION L0000024 VOLUME 386480.361 3757263.750 30.00
LOCATION L0000025 VOLUME 386483.940 3757244.252 30.00
LOCATION L0000026 VOLUME 386487.519 3757224.753 30.00
LOCATION L0000027 VOLUME 386491.097 3757205.255 30.00
LOCATION L0000028 VOLUME 386494.676 3757185.757 30.00
LOCATION L0000029 VOLUME 386498.255 3757166.259 30.00
LOCATION L0000030 VOLUME 386501.834 3757146.761 30.00
LOCATION L0000031 VOLUME 386505.413 3757127.262 30.00
LOCATION L0000032 VOLUME 386508.991 3757107.764 30.00
LOCATION L0000033 VOLUME 386512.570 3757088.266 30.00
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LOCATION L0000035 VOLUME 386519.728 3757049.269 30.00
LOCATION L0000036 VOLUME 386523.307 3757029.771 30.00
LOCATION L0000037 VOLUME 386526.885 3757010.273 30.00
LOCATION L0000038 VOLUME 386530.464 3756990.775 30.00
LOCATION L0000039 VOLUME 386533.897 3756971.251 30.00
LOCATION L0000040 VOLUME 386537.116 3756951.690 30.00
LOCATION L0000041 VOLUME 386540.335 3756932.130 30.00
LOCATION L0000042 VOLUME 386543.554 3756912.569 30.00
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LOCATION L0000045 VOLUME 386553.210 3756853.886 30.00
LOCATION L0000046 VOLUME 386556.429 3756834.325 30.00
LOCATION L0000047 VOLUME 386559.648 3756814.764 30.00
LOCATION L0000048 VOLUME 386562.693 3756795.189 30.00
LOCATION L0000049 VOLUME 386562.693 3756775.365 30.00
LOCATION L0000050 VOLUME 386563.414 3756755.613 30.00
LOCATION L0000051 VOLUME 386567.302 3756736.174 30.00
LOCATION L0000052 VOLUME 386570.797 3756716.667 30.00
LOCATION L0000053 VOLUME 386573.703 3756697.057 30.00
LOCATION L0000054 VOLUME 386576.608 3756677.447 30.00
LOCATION L0000055 VOLUME 386579.513 3756657.837 30.00
LOCATION L0000056 VOLUME 386582.418 3756638.227 30.00
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LOCATION L0000058 VOLUME 386588.228 3756599.007 30.00
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LOCATION L0000063 VOLUME 386604.214 3756501.205 30.00
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LOCATION L0000064 VOLUME 386607.914 3756481.729 30.00  
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LOCATION L0000078 VOLUME 386658.057 3756208.785 30.00  
LOCATION L0000079 VOLUME 386660.969 3756189.176 30.00  
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LOCATION L0000081 VOLUME 386666.794 3756149.959 30.00  
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LOCATION L0000084 VOLUME 386675.530 3756091.132 30.00  
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LOCATION L0000107 VOLUME 386733.355 3755638.939 30.00

\*\* End of Line Source

\*\* Source Parameters \*\*

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** AERMOD Meteorology Pathway
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ME STARTING
  SURFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.SFC"
  PROFFILE "L:\Library & Reference\Wind Data\South Coast Air Basin\AERMOD Met Data\lynn.PFL"
  SURFDATA 0 2005
  UAIRDATA 3190 2005
  PROFBASE 10 METERS
ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST TRAIN.AD\24H1GALL.PLT
OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----
A Total of      0 Fatal Error Message(s)
A Total of    107 Warning Message(s)
A Total of      0 Informational Message(s)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
SO W320 156 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT
SO W320 157 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT
SO W320 158 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT
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SO W320 185 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT

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SO W320 186 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT
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*****
*** SETUP Finishes Successfully ***
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*** AERMOD - VERSION 09292 ***      *** Jordaon Downs Train PM2.5 Concentrations      ***      11/03/10
***                               ***                               ***                               ***      13:52:16
***                               ***                               ***                               ***                               ***      PAGE   1

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**MODELOPTs: RegDEFAULT CONC                      ELEV
                                                    NODRYDPLT NOWETDPLT

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***      MODEL SETUP OPTIONS SUMMARY      ***

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-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 107 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

```

\*\*This Run Includes: 107 Source(s); 1 Source Group(s); and 39 Receptor(s)

\*\*The Model Assumes A Pollutant Type of: PM2.5

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*Output Options Selected:  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.6 MB of RAM.

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Train PM2.5 Concentrations \*\*\* 11/03/10  
\*\*\* \*\* \*\* 13:52:16  
PAGE 2

\*\*MODELOPTs: RegDFAULT CONC ELEV  
NODRYDPLT NOWETDPLT

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.28037E-05	386401.5	3757712.8	30.0	0.00	9.22	0.00	YES	
L0000002	0	0.28037E-05	386404.9	3757693.3	30.0	0.00	9.22	0.00	YES	
L0000003	0	0.28037E-05	386408.3	3757673.8	30.0	0.00	9.22	0.00	YES	
L0000004	0	0.28037E-05	386411.7	3757654.2	30.0	0.00	9.22	0.00	YES	
L0000005	0	0.28037E-05	386415.1	3757634.7	30.0	0.00	9.22	0.00	YES	
L0000006	0	0.28037E-05	386418.5	3757615.2	30.0	0.00	9.22	0.00	YES	
L0000007	0	0.28037E-05	386421.9	3757595.6	30.0	0.00	9.22	0.00	YES	
L0000008	0	0.28037E-05	386425.3	3757576.1	30.0	0.00	9.22	0.00	YES	
L0000009	0	0.28037E-05	386428.7	3757556.6	30.0	0.00	9.22	0.00	YES	
L0000010	0	0.28037E-05	386432.0	3757537.0	30.0	0.00	9.22	0.00	YES	
L0000011	0	0.28037E-05	386435.4	3757517.5	30.0	0.00	9.22	0.00	YES	
L0000012	0	0.28037E-05	386438.8	3757498.0	30.0	0.00	9.22	0.00	YES	
L0000013	0	0.28037E-05	386442.2	3757478.5	30.0	0.00	9.22	0.00	YES	
L0000014	0	0.28037E-05	386445.6	3757458.9	30.0	0.00	9.22	0.00	YES	
L0000015	0	0.28037E-05	386449.0	3757439.4	30.0	0.00	9.22	0.00	YES	
L0000016	0	0.28037E-05	386452.4	3757419.9	30.0	0.00	9.22	0.00	YES	
L0000017	0	0.28037E-05	386455.8	3757400.3	30.0	0.00	9.22	0.00	YES	
L0000018	0	0.28037E-05	386459.2	3757380.8	30.0	0.00	9.22	0.00	YES	
L0000019	0	0.28037E-05	386462.6	3757361.3	30.0	0.00	9.22	0.00	YES	
L0000020	0	0.28037E-05	386466.0	3757341.7	30.0	0.00	9.22	0.00	YES	
L0000021	0	0.28037E-05	386469.4	3757322.2	30.0	0.00	9.22	0.00	YES	
L0000022	0	0.28037E-05	386473.2	3757302.7	30.0	0.00	9.22	0.00	YES	
L0000023	0	0.28037E-05	386476.8	3757283.2	30.0	0.00	9.22	0.00	YES	
L0000024	0	0.28037E-05	386480.4	3757263.8	30.0	0.00	9.22	0.00	YES	
L0000025	0	0.28037E-05	386483.9	3757244.3	30.0	0.00	9.22	0.00	YES	
L0000026	0	0.28037E-05	386487.5	3757224.8	30.0	0.00	9.22	0.00	YES	
L0000027	0	0.28037E-05	386491.1	3757205.3	30.0	0.00	9.22	0.00	YES	
L0000028	0	0.28037E-05	386494.7	3757185.8	30.0	0.00	9.22	0.00	YES	
L0000029	0	0.28037E-05	386498.3	3757166.3	30.0	0.00	9.22	0.00	YES	
L0000030	0	0.28037E-05	386501.8	3757146.8	30.0	0.00	9.22	0.00	YES	
L0000031	0	0.28037E-05	386505.4	3757127.3	30.0	0.00	9.22	0.00	YES	
L0000032	0	0.28037E-05	386509.0	3757107.8	30.0	0.00	9.22	0.00	YES	
L0000033	0	0.28037E-05	386512.6	3757088.3	30.0	0.00	9.22	0.00	YES	
L0000034	0	0.28037E-05	386516.1	3757068.8	30.0	0.00	9.22	0.00	YES	
L0000035	0	0.28037E-05	386519.7	3757049.3	30.0	0.00	9.22	0.00	YES	
L0000036	0	0.28037E-05	386523.3	3757029.8	30.0	0.00	9.22	0.00	YES	
L0000037	0	0.28037E-05	386526.9	3757010.3	30.0	0.00	9.22	0.00	YES	
L0000038	0	0.28037E-05	386530.5	3756990.8	30.0	0.00	9.22	0.00	YES	
L0000039	0	0.28037E-05	386533.9	3756971.3	30.0	0.00	9.22	0.00	YES	
L0000040	0	0.28037E-05	386537.1	3756951.7	30.0	0.00	9.22	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\* Jordaon Downs Train PM2.5 Concentrations \*\*\* 11/03/10  
\*\*\* \*\* \*\* 13:52:16  
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\*\*MODELOPTs: RegDFAULT CONC ELEV  
NODRYDPLT NOWETDPLT

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000041	0	0.28037E-05	386540.3	3756932.1	30.0	0.00	9.22	0.00	YES	
L0000042	0	0.28037E-05	386543.6	3756912.6	30.0	0.00	9.22	0.00	YES	
L0000043	0	0.28037E-05	386546.8	3756893.0	30.0	0.00	9.22	0.00	YES	
L0000044	0	0.28037E-05	386550.0	3756873.4	30.0	0.00	9.22	0.00	YES	
L0000045	0	0.28037E-05	386553.2	3756853.9	30.0	0.00	9.22	0.00	YES	
L0000046	0	0.28037E-05	386556.4	3756834.3	30.0	0.00	9.22	0.00	YES	
L0000047	0	0.28037E-05	386559.6	3756814.8	30.0	0.00	9.22	0.00	YES	
L0000048	0	0.28037E-05	386562.7	3756795.2	30.0	0.00	9.22	0.00	YES	
L0000049	0	0.28037E-05	386565.9	3756775.6	30.0	0.00	9.22	0.00	YES	
L0000050	0	0.28037E-05	386569.1	3756756.0	30.0	0.00	9.22	0.00	YES	
L0000051	0	0.28037E-05	386572.3	3756736.4	30.0	0.00	9.22	0.00	YES	
L0000052	0	0.28037E-05	386575.5	3756716.8	30.0	0.00	9.22	0.00	YES	
L0000053	0	0.28037E-05	386578.7	3756697.2	30.0	0.00	9.22	0.00	YES	
L0000054	0	0.28037E-05	386581.9	3756677.6	30.0	0.00	9.22	0.00	YES	
L0000055	0	0.28037E-05	386585.1	3756658.0	30.0	0.00	9.22	0.00	YES	
L0000056	0	0.28037E-05	386588.3	3756638.4	30.0	0.00	9.22	0.00	YES	
L0000057	0	0.28037E-05	386591.5	3756618.8	30.0	0.00	9.22	0.00	YES	
L0000058	0	0.28037E-05	386594.7	3756599.2	30.0	0.00	9.22	0.00	YES	
L0000059	0	0.28037E-05	386597.9	3756579.6	30.0	0.00	9.22	0.00	YES	
L0000060	0	0.28037E-05	386601.1	3756560.0	30.0	0.00	9.22	0.00	YES	
L0000061	0	0.28037E-05	386604.3	3756540.4	30.0	0.00	9.22	0.00	YES	
L0000062	0	0.28037E-05	386607.5	3756520.8	30.0	0.00	9.22	0.00	YES	
L0000063	0	0.28037E-05	386610.7	3756501.2	30.0	0.00	9.22	0.00	YES	
L0000064	0	0.28037E-05	386613.9	3756481.6	30.0	0.00	9.22	0.00	YES	
L0000065	0	0.28037E-05	386617.1	3756462.0	30.0	0.00	9.22	0.00	YES	

L0000066	0	0.28037E-05	386615.3	3756442.8	30.0	0.00	9.22	0.00	YES
L0000067	0	0.28037E-05	386619.0	3756423.3	30.0	0.00	9.22	0.00	YES
L0000068	0	0.28037E-05	386622.7	3756403.8	30.0	0.00	9.22	0.00	YES
L0000069	0	0.28037E-05	386626.4	3756384.4	30.0	0.00	9.22	0.00	YES
L0000070	0	0.28037E-05	386630.1	3756364.9	30.0	0.00	9.22	0.00	YES
L0000071	0	0.28037E-05	386633.8	3756345.4	30.0	0.00	9.22	0.00	YES
L0000072	0	0.28037E-05	386637.5	3756325.9	30.0	0.00	9.22	0.00	YES
L0000073	0	0.28037E-05	386641.2	3756306.4	30.0	0.00	9.22	0.00	YES
L0000074	0	0.28037E-05	386644.8	3756287.0	30.0	0.00	9.22	0.00	YES
L0000075	0	0.28037E-05	386648.4	3756267.5	30.0	0.00	9.22	0.00	YES
L0000076	0	0.28037E-05	386652.1	3756248.0	30.0	0.00	9.22	0.00	YES
L0000077	0	0.28037E-05	386655.1	3756228.4	30.0	0.00	9.22	0.00	YES
L0000078	0	0.28037E-05	386658.1	3756208.8	30.0	0.00	9.22	0.00	YES
L0000079	0	0.28037E-05	386661.0	3756189.2	30.0	0.00	9.22	0.00	YES
L0000080	0	0.28037E-05	386663.9	3756169.6	30.0	0.00	9.22	0.00	YES

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Train PM2.5 Concentrations      \*\*\*      11/03/10  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
NODRYDPLT NOWETDPLT

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.28037E-05	386666.8	3756150.0	30.0	0.00	9.22	0.00	YES	
L0000082	0	0.28037E-05	386669.7	3756130.3	30.0	0.00	9.22	0.00	YES	
L0000083	0	0.28037E-05	386672.6	3756110.7	30.0	0.00	9.22	0.00	YES	
L0000084	0	0.28037E-05	386675.5	3756091.1	30.0	0.00	9.22	0.00	YES	
L0000085	0	0.28037E-05	386678.4	3756071.5	30.0	0.00	9.22	0.00	YES	
L0000086	0	0.28037E-05	386681.4	3756051.9	30.0	0.00	9.22	0.00	YES	
L0000087	0	0.28037E-05	386684.3	3756032.3	30.0	0.00	9.22	0.00	YES	
L0000088	0	0.28037E-05	386687.2	3756012.7	30.0	0.00	9.22	0.00	YES	
L0000089	0	0.28037E-05	386689.3	3755993.0	30.0	0.00	9.22	0.00	YES	
L0000090	0	0.28037E-05	386691.2	3755973.3	30.0	0.00	9.22	0.00	YES	
L0000091	0	0.28037E-05	386693.2	3755953.5	30.0	0.00	9.22	0.00	YES	
L0000092	0	0.28037E-05	386695.1	3755933.8	30.0	0.00	9.22	0.00	YES	
L0000093	0	0.28037E-05	386697.0	3755914.1	30.0	0.00	9.22	0.00	YES	
L0000094	0	0.28037E-05	386699.0	3755894.3	30.0	0.00	9.22	0.00	YES	
L0000095	0	0.28037E-05	386701.5	3755874.7	30.0	0.00	9.22	0.00	YES	
L0000096	0	0.28037E-05	386704.2	3755855.0	30.0	0.00	9.22	0.00	YES	
L0000097	0	0.28037E-05	386706.8	3755835.4	30.0	0.00	9.22	0.00	YES	
L0000098	0	0.28037E-05	386709.5	3755815.7	30.0	0.00	9.22	0.00	YES	
L0000099	0	0.28037E-05	386712.1	3755796.1	30.0	0.00	9.22	0.00	YES	
L0000100	0	0.28037E-05	386714.8	3755776.5	30.0	0.00	9.22	0.00	YES	
L0000101	0	0.28037E-05	386717.4	3755756.8	30.0	0.00	9.22	0.00	YES	
L0000102	0	0.28037E-05	386720.1	3755737.2	30.0	0.00	9.22	0.00	YES	
L0000103	0	0.28037E-05	386722.7	3755717.5	30.0	0.00	9.22	0.00	YES	
L0000104	0	0.28037E-05	386725.4	3755697.9	30.0	0.00	9.22	0.00	YES	
L0000105	0	0.28037E-05	386728.0	3755678.2	30.0	0.00	9.22	0.00	YES	
L0000106	0	0.28037E-05	386730.7	3755658.6	30.0	0.00	9.22	0.00	YES	
L0000107	0	0.28037E-05	386733.4	3755638.9	30.0	0.00	9.22	0.00	YES	

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Train PM2.5 Concentrations      \*\*\*      11/03/10  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
NODRYDPLT NOWETDPLT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID      SOURCE IDs

ALL      L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036, L0000037, L0000038, L0000039, L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046, L0000047, L0000048, L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055, L0000056, L0000057, L0000058, L0000059, L0000060, L0000061, L0000062, L0000063, L0000064, L0000065, L0000066, L0000067, L0000068, L0000069, L0000070, L0000071, L0000072, L0000073, L0000074, L0000075, L0000076, L0000077, L0000078, L0000079, L0000080, L0000081, L0000082, L0000083, L0000084, L0000085, L0000086, L0000087, L0000088, L0000089, L0000090, L0000091, L0000092, L0000093, L0000094, L0000095, L0000096, L0000097, L0000098, L0000099, L0000100, L0000101, L0000102, L0000103, L0000104, L0000105, L0000106, L0000107.

\*\*\* AERMOD - VERSION 09292 \*\*\*      \*\*\* Jordaon Downs Train PM2.5 Concentrations      \*\*\*      11/03/10  
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\*\*MODELOPTs: RegDEFAULT CONC      ELEV  
NODRYDPLT NOWETDPLT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 386330.5, 3756800.3, 30.0, 30.0, 0.0);	( 386332.7, 3756900.1, 30.0, 30.0, 0.0);
( 386330.5, 3756849.1, 30.0, 30.0, 0.0);	( 386181.9, 3756900.1, 30.0, 30.0, 0.0);
( 386179.6, 3756851.3, 30.0, 30.0, 0.0);	( 386177.4, 3756798.1, 30.0, 30.0, 0.0);
( 386020.0, 3756902.3, 30.0, 30.0, 0.0);	( 386017.7, 3756853.5, 30.0, 30.0, 0.0);
( 386013.3, 3756795.8, 30.0, 30.0, 0.0);	( 385847.0, 3756904.5, 30.0, 30.0, 0.0);
( 385849.2, 3756849.1, 30.0, 30.0, 0.0);	( 385847.0, 3756793.6, 30.0, 30.0, 0.0);
( 385915.7, 3756751.5, 30.0, 30.0, 0.0);	( 385906.8, 3756660.6, 30.0, 30.0, 0.0);
( 385902.4, 3756591.8, 30.0, 30.0, 0.0);	( 385895.8, 3756523.0, 30.0, 30.0, 0.0);
( 386366.0, 3756893.4, 30.0, 30.0, 0.0);	( 386368.2, 3756820.2, 30.0, 30.0, 0.0);
( 386408.1, 3756900.1, 30.0, 30.0, 0.0);	( 386405.9, 3756809.2, 30.0, 30.0, 0.0);
( 386361.5, 3756760.4, 30.0, 30.0, 0.0);	( 386405.9, 3756753.7, 30.0, 30.0, 0.0);
( 386405.9, 3756620.6, 30.0, 30.0, 0.0);	( 386410.3, 3756700.5, 30.0, 30.0, 0.0);
( 386326.0, 3756704.9, 30.0, 30.0, 0.0);	( 386319.4, 3756620.6, 30.0, 30.0, 0.0);
( 386184.1, 3756724.9, 30.0, 30.0, 0.0);	( 386193.0, 3756633.9, 30.0, 30.0, 0.0);
( 385900.2, 3756458.7, 30.0, 30.0, 0.0);	( 385904.6, 3756387.8, 30.0, 30.0, 0.0);
( 385960.1, 3756396.6, 30.0, 30.0, 0.0);	( 386024.4, 3756396.6, 30.0, 30.0, 0.0);
( 386097.6, 3756394.4, 30.0, 30.0, 0.0);	( 386161.9, 3756398.8, 30.0, 30.0, 0.0);
( 386270.6, 3756392.2, 30.0, 30.0, 0.0);	( 386272.8, 3756345.6, 30.0, 30.0, 0.0);



386268.36 3756447.64 0.00413c (07031224) 386268.36 3756509.74 0.00410c (07031224)  
386266.14 3756576.28 0.00401c (07031224)  
\*\*\* AERMOD - VERSION 09292 \*\*\* \*\*\* Jordaon Downs Train PM2.5 Concentrations \*\*\* 11/03/10  
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\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM2.5 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.00752c ON 07031224: AT (	386408.09, 3756900.09, 30.00, 30.00, 0.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 09292 \*\*\* \*\*\* Jordaon Downs Train PM2.5 Concentrations \*\*\* 11/03/10  
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\*\*MODELOPTs: RegDEFAULT CONC ELEV  
NODRYDPLT NOWETDPLT

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 107 Warning Message(s)  
A Total of 3086 Informational Message(s)  
A Total of 26280 Hours Were Processed  
A Total of 2622 Calm Hours Identified  
A Total of 464 Missing Hours Identified ( 1.77 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320 156 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 157 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 158 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 159 VPARAM :Input Parameter May Be Out-of-Range for Parameter SZINIT  
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