

## **APPENDIX C**

### **AIR QUALITY DATA**



Urbemis 2007 Version 9.2.4

Summary Report for Summer Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (lbs/day unmitigated)	58.85	192.13	1,581.27	1.79	267.37	10.01	277.38	56.45	9.01	65.46	177,667.02
2009 TOTALS (lbs/day mitigated)	58.85	192.13	1,581.27	1.79	63.39	10.01	73.40	13.85	9.01	22.86	177,667.02
2010 TOTALS (lbs/day unmitigated)	106.16	306.28	2,891.58	3.59	16.09	17.60	33.69	5.80	15.36	21.16	353,134.14
2010 TOTALS (lbs/day mitigated)	106.16	306.28	2,891.58	3.59	16.09	17.60	33.69	5.80	15.36	21.16	353,134.14
2011 TOTALS (lbs/day unmitigated)	209.14	157.86	1,351.77	1.80	8.09	10.57	18.66	2.91	9.29	12.21	177,991.18
2011 TOTALS (lbs/day mitigated)	209.14	157.86	1,351.77	1.80	8.09	10.57	18.66	2.91	9.29	12.21	177,991.18

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)	5.41	5.80	9.46	0.00	0.03	0.03	6,894.87

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)	13.63	23.29	177.17	0.19	30.36	6.08	18,544.21

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)	19.04	29.09	186.63	0.19	30.39	6.11	25,439.08

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Urbemis 2007 Version 9.2.4

## Detail Report for Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10 Total</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5 Total</u>	<u>CO2</u>
Time Slice 6/1/2009-6/12/2009 Active Days: 10	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Time Slice 6/15/2009-6/15/2009 Active Days: 1	15.36	123.11	68.44	0.02	267.14	6.90	274.04	55.79	6.35	62.14	11,267.44
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 6/16/2009-7/3/2009 Active Days: 14	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 7/6/2009-7/15/2009 Active Days: 8	41.43	<u>192.13</u>	844.70	0.91	<u>267.37</u>	<u>10.01</u>	<u>277.38</u>	<u>56.45</u>	<u>9.01</u>	<u>65.46</u>	98,587.32
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21

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Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 7/16/2009-9/30/2009 Active Days: 55	30.14	100.98	795.09	0.90	4.03	5.04	9.08	1.45	4.44	5.89	90,286.57
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 10/1/2009-12/31/2009 Active Days: 66	<u>58.85</u>	177.22	<u>1,581.27</u>	<u>1.79</u>	8.05	9.36	17.41	2.90	8.21	11.11	<u>177,667.02</u>
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Building 10/01/2009-05/31/2011	28.71	76.24	786.19	0.90	4.02	4.32	8.34	1.45	3.77	5.22	87,380.45
Building Off Road Diesel	3.87	17.35	11.50	0.00	0.00	1.28	1.28	0.00	1.17	1.17	1,621.20
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 1/1/2010-1/29/2010 Active Days: 21	53.50	161.65	1,449.19	1.79	8.05	9.04	17.09	2.90	7.90	10.80	177,654.10
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 2/1/2010-3/31/2010 Active Days: 43	79.58	231.11	2,169.52	2.69	12.07	13.22	25.30	4.35	11.54	15.89	265,028.10
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00

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Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 4/1/2010-11/30/2010 Active Days: 174	<u>106.16</u>	<u>306.28</u>	<u>2,891.58</u>	<u>3.59</u>	<u>16.09</u>	<u>17.60</u>	<u>33.69</u>	<u>5.80</u>	<u>15.36</u>	<u>21.16</u>	<u>353,134.14</u>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 12/1/2010-12/31/2010 Active Days: 23	<u>103.28</u>	<u>282.26</u>	<u>2,878.60</u>	<u>3.58</u>	<u>16.08</u>	<u>16.43</u>	<u>32.51</u>	<u>5.80</u>	<u>14.28</u>	<u>20.08</u>	<u>350,449.80</u>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Time Slice 1/3/2011-3/31/2011 Active Days: 64	<u>204.05</u>	<u>127.49</u>	<u>1,335.25</u>	<u>1.79</u>	<u>8.05</u>	<u>8.17</u>	<u>16.22</u>	<u>2.90</u>	<u>7.09</u>	<u>9.99</u>	<u>174,951.86</u>
Building 02/01/2010-03/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20

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Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 4/1/2011-4/29/2011 Active Days: 21	187.38	100.97	691.02	0.91	4.07	7.16	11.23	1.47	6.37	7.84	91,139.26
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 5/2/2011-5/31/2011 Active Days: 22	<b>209.14</b>	<b>157.86</b>	<b>1,351.77</b>	<b>1.80</b>	<b>8.09</b>	<b>10.57</b>	<b>18.66</b>	<b>2.91</b>	<b>9.29</b>	<b>12.21</b>	<b>177,991.18</b>
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 05/01/2011-05/31/2011	21.76	56.89	660.74	0.90	4.02	3.41	7.43	1.45	2.92	4.37	86,851.92
Building Off Road Diesel	1.50	8.86	4.84	0.00	0.00	0.46	0.46	0.00	0.43	0.43	1,110.91
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Building Demolition during Renovation

Building Volume Total (cubic feet): 90000

Building Volume Daily (cubic feet): 9000

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On Road Truck Travel (VMT): 125

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

Total Acres Disturbed: 105.31

Maximum Daily Acreage Disturbed: 26.33

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 130.43

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/4/2009 - 11/30/2010 - Utilities

Off-Road Equipment:

- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 4/1/2011 - 5/31/2011 - Paving

Acres to be Paved: 19.61

Off-Road Equipment:

- 2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 4 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 7/4/2009 - 12/31/2010 - Foundations

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 10/1/2009 - 5/31/2011 - Building Group 1

Off-Road Equipment:

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- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/1/2010 - 3/31/2011 - Building Group 2

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 4/1/2010 - 12/31/2010 - Building Group 3

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 5/1/2011 - 5/31/2011 - Ancillary construction, fencing, and finish

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/1/2011 - 5/31/2011 - Painting

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9.2.4

## Detail Report for Summer Construction Mitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Mitigated)

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10 Total</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5 Total</u>	<u>CO2</u>
Time Slice 6/1/2009-6/12/2009 Active Days: 10	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Time Slice 6/15/2009-6/15/2009 Active Days: 1	15.36	123.11	68.44	0.02	63.16	6.90	70.06	13.19	6.35	19.54	11,267.44
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 6/16/2009-7/3/2009 Active Days: 14	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 7/6/2009-7/15/2009 Active Days: 8	41.43	<u>192.13</u>	844.70	0.91	<u>63.39</u>	<u>10.01</u>	<u>73.40</u>	<u>13.85</u>	<u>9.01</u>	<u>22.86</u>	98,587.32
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21

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Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 7/16/2009-9/30/2009 Active Days: 55	30.14	100.98	795.09	0.90	4.03	5.04	9.08	1.45	4.44	5.89	90,286.57
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 10/1/2009-12/31/2009 Active Days: 66	<u>58.85</u>	177.22	<u>1,581.27</u>	<u>1.79</u>	8.05	9.36	17.41	2.90	8.21	11.11	<u>177,667.02</u>
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Building 10/01/2009-05/31/2011	28.71	76.24	786.19	0.90	4.02	4.32	8.34	1.45	3.77	5.22	87,380.45
Building Off Road Diesel	3.87	17.35	11.50	0.00	0.00	1.28	1.28	0.00	1.17	1.17	1,621.20
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 1/1/2010-1/29/2010 Active Days: 21	53.50	161.65	1,449.19	1.79	8.05	9.04	17.09	2.90	7.90	10.80	177,654.10
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 2/1/2010-3/31/2010 Active Days: 43	79.58	231.11	2,169.52	2.69	12.07	13.22	25.30	4.35	11.54	15.89	265,028.10
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00

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Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 4/1/2010-11/30/2010 Active Days: 174	<u>106.16</u>	<u>306.28</u>	<u>2,891.58</u>	<u>3.59</u>	<u>16.09</u>	<u>17.60</u>	<u>33.69</u>	<u>5.80</u>	<u>15.36</u>	<u>21.16</u>	<u>353,134.14</u>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 12/1/2010-12/31/2010 Active Days: 23	103.28	282.26	2,878.60	3.58	16.08	16.43	32.51	5.80	14.28	20.08	350,449.80
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Time Slice 1/3/2011-3/31/2011 Active Days: 64	204.05	127.49	1,335.25	1.79	8.05	8.17	16.22	2.90	7.09	9.99	174,951.86
Building 02/01/2010-03/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20

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Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 4/1/2011-4/29/2011 Active Days: 21	187.38	100.97	691.02	0.91	4.07	7.16	11.23	1.47	6.37	7.84	91,139.26
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 5/2/2011-5/31/2011 Active Days: 22	<b>209.14</b>	<b>157.86</b>	<b>1,351.77</b>	<b>1.80</b>	<b>8.09</b>	<b>10.57</b>	<b>18.66</b>	<b>2.91</b>	<b>9.29</b>	<b>12.21</b>	<b>177,991.18</b>
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 05/01/2011-05/31/2011	21.76	56.89	660.74	0.90	4.02	3.41	7.43	1.45	2.92	4.37	86,851.92
Building Off Road Diesel	1.50	8.86	4.84	0.00	0.00	0.46	0.46	0.00	0.43	0.43	1,110.91
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

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PM10: 61% PM25: 61%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Building Demolition during Renovation

Building Volume Total (cubic feet): 90000

Building Volume Daily (cubic feet): 9000

On Road Truck Travel (VMT): 125

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

Total Acres Disturbed: 105.31

Maximum Daily Acreage Disturbed: 26.33

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 130.43

Off-Road Equipment:

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/4/2009 - 11/30/2010 - Utilities

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 4/1/2011 - 5/31/2011 - Paving

Acres to be Paved: 19.61

Off-Road Equipment:

2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

4 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

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Phase: Building Construction 7/4/2009 - 12/31/2010 - Foundations

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 10/1/2009 - 5/31/2011 - Building Group 1

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/1/2010 - 3/31/2011 - Building Group 2

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 4/1/2010 - 12/31/2010 - Building Group 3

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 5/1/2011 - 5/31/2011 - Ancillary construction, fencing, and finish

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/1/2011 - 5/31/2011 - Painting

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

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Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

## Detail Report for Summer Area Source Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## 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	0.42	5.74	4.82	0.00	0.01	0.01	6,886.44
Hearth							
Landscape	0.37	0.06	4.64	0.00	0.02	0.02	8.43
Consumer Products	0.00						
Architectural Coatings	4.62						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>5.41</b>	<b>5.80</b>	<b>9.46</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>6,894.87</b>

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.4

## Detail Report for Summer Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan Operations.urb924

Project Name: RJ Donovan Operations

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## OPERATIONAL EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hospital	13.63	23.29	177.17	0.19	30.36	6.08	18,544.21
<b>TOTALS (lbs/day, unmitigated)</b>	<b>13.63</b>	<b>23.29</b>	<b>177.17</b>	<b>0.19</b>	<b>30.36</b>	<b>6.08</b>	<b>18,544.21</b>

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 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
Hospital		1,776.00	1000 sq ft	1.00	1,776.00	17,427.00
					1,776.00	17,427.00

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	45.5	0.9	98.9	0.2
Light Truck < 3750 lbs	9.6	2.1	92.7	5.2
Light Truck 3751-5750 lbs	21.8	0.5	99.5	0.0

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Med Truck 5751-8500 lbs	12.1	0.8	98.4	0.8
Lite-Heavy Truck 8501-10,000 lbs	1.9	0.0	78.9	21.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.8	0.0	12.5	87.5
Heavy-Heavy Truck 33,001-60,000 lbs	1.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	4.5	62.2	37.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.5	0.0	86.7	13.3

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		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)				25.0	12.5	62.5

Operational Changes to Defaults

Urbemis 2007 Version 9.2.4

Summary Report for Winter Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (lbs/day unmitigated)	58.85	192.13	1,581.27	1.79	267.37	10.01	277.38	56.45	9.01	65.46	177,667.02
2009 TOTALS (lbs/day mitigated)	58.85	192.13	1,581.27	1.79	63.39	10.01	73.40	13.85	9.01	22.86	177,667.02
2010 TOTALS (lbs/day unmitigated)	106.16	306.28	2,891.58	3.59	16.09	17.60	33.69	5.80	15.36	21.16	353,134.14
2010 TOTALS (lbs/day mitigated)	106.16	306.28	2,891.58	3.59	16.09	17.60	33.69	5.80	15.36	21.16	353,134.14
2011 TOTALS (lbs/day unmitigated)	209.14	157.86	1,351.77	1.80	8.09	10.57	18.66	2.91	9.29	12.21	177,991.18
2011 TOTALS (lbs/day mitigated)	209.14	157.86	1,351.77	1.80	8.09	10.57	18.66	2.91	9.29	12.21	177,991.18

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)	5.04	5.74	4.82	0.00	0.01	0.01	6,886.44

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)	15.57	27.65	171.84	0.16	30.36	6.08	16,883.94

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)	20.61	33.39	176.66	0.16	30.37	6.09	23,770.38

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Urbemis 2007 Version 9.2.4

## Detail Report for Winter Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10 Total</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5 Total</u>	<u>CO2</u>
Time Slice 6/1/2009-6/12/2009 Active Days: 10	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Time Slice 6/15/2009-6/15/2009 Active Days: 1	15.36	123.11	68.44	0.02	267.14	6.90	274.04	55.79	6.35	62.14	11,267.44
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 6/16/2009-7/3/2009 Active Days: 14	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 7/6/2009-7/15/2009 Active Days: 8	41.43	<u>192.13</u>	844.70	0.91	<u>267.37</u>	<u>10.01</u>	<u>277.38</u>	<u>56.45</u>	<u>9.01</u>	<u>65.46</u>	98,587.32
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	263.34	4.97	268.31	55.00	4.57	59.57	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	263.30	0.00	263.30	54.99	0.00	54.99	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21

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Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 7/16/2009-9/30/2009 Active Days: 55	30.14	100.98	795.09	0.90	4.03	5.04	9.08	1.45	4.44	5.89	90,286.57
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 10/1/2009-12/31/2009 Active Days: 66	<u>58.85</u>	177.22	<u>1,581.27</u>	<u>1.79</u>	8.05	9.36	17.41	2.90	8.21	11.11	<u>177,667.02</u>
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Building 10/01/2009-05/31/2011	28.71	76.24	786.19	0.90	4.02	4.32	8.34	1.45	3.77	5.22	87,380.45
Building Off Road Diesel	3.87	17.35	11.50	0.00	0.00	1.28	1.28	0.00	1.17	1.17	1,621.20
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 1/1/2010-1/29/2010 Active Days: 21	53.50	161.65	1,449.19	1.79	8.05	9.04	17.09	2.90	7.90	10.80	177,654.10
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 2/1/2010-3/31/2010 Active Days: 43	79.58	231.11	2,169.52	2.69	12.07	13.22	25.30	4.35	11.54	15.89	265,028.10
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00

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Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 4/1/2010-11/30/2010 Active Days: 174	<b>106.16</b>	<b>306.28</b>	<b>2,891.58</b>	<b>3.59</b>	<b>16.09</b>	<b>17.60</b>	<b>33.69</b>	<b>5.80</b>	<b>15.36</b>	<b>21.16</b>	<b>353,134.14</b>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 12/1/2010-12/31/2010 Active Days: 23	<b>103.28</b>	<b>282.26</b>	<b>2,878.60</b>	<b>3.58</b>	<b>16.08</b>	<b>16.43</b>	<b>32.51</b>	<b>5.80</b>	<b>14.28</b>	<b>20.08</b>	<b>350,449.80</b>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Time Slice 1/3/2011-3/31/2011 Active Days: 64	<b>204.05</b>	<b>127.49</b>	<b>1,335.25</b>	<b>1.79</b>	<b>8.05</b>	<b>8.17</b>	<b>16.22</b>	<b>2.90</b>	<b>7.09</b>	<b>9.99</b>	<b>174,951.86</b>
Building 02/01/2010-03/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20

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Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 4/1/2011-4/29/2011 Active Days: 21	187.38	100.97	691.02	0.91	4.07	7.16	11.23	1.47	6.37	7.84	91,139.26
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 5/2/2011-5/31/2011 Active Days: 22	<b>209.14</b>	<b>157.86</b>	<b>1,351.77</b>	<b>1.80</b>	<b>8.09</b>	<b>10.57</b>	<b>18.66</b>	<b>2.91</b>	<b>9.29</b>	<b>12.21</b>	<b>177,991.18</b>
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 05/01/2011-05/31/2011	21.76	56.89	660.74	0.90	4.02	3.41	7.43	1.45	2.92	4.37	86,851.92
Building Off Road Diesel	1.50	8.86	4.84	0.00	0.00	0.46	0.46	0.00	0.43	0.43	1,110.91
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Building Demolition during Renovation

Building Volume Total (cubic feet): 90000

Building Volume Daily (cubic feet): 9000

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On Road Truck Travel (VMT): 125

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

Total Acres Disturbed: 105.31

Maximum Daily Acreage Disturbed: 26.33

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 130.43

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/4/2009 - 11/30/2010 - Utilities

Off-Road Equipment:

- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 4/1/2011 - 5/31/2011 - Paving

Acres to be Paved: 19.61

Off-Road Equipment:

- 2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 4 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 7/4/2009 - 12/31/2010 - Foundations

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 10/1/2009 - 5/31/2011 - Building Group 1

Off-Road Equipment:

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- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/1/2010 - 3/31/2011 - Building Group 2

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 4/1/2010 - 12/31/2010 - Building Group 3

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 5/1/2011 - 5/31/2011 - Ancillary construction, fencing, and finish

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/1/2011 - 5/31/2011 - Painting

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9.2.4

## Detail Report for Winter Construction Mitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Mitigated)

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10 Total</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5 Total</u>	<u>CO2</u>
Time Slice 6/1/2009-6/12/2009 Active Days: 10	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Time Slice 6/15/2009-6/15/2009 Active Days: 1	15.36	123.11	68.44	0.02	63.16	6.90	70.06	13.19	6.35	19.54	11,267.44
Demolition 06/01/2009-06/15/2009	4.07	31.96	18.83	0.01	3.80	1.93	5.73	0.79	1.77	2.57	2,966.69
Fugitive Dust	0.00	0.00	0.00	0.00	3.78	0.00	3.78	0.79	0.00	0.79	0.00
Demo Off Road Diesel	3.73	27.72	15.92	0.00	0.00	1.76	1.76	0.00	1.62	1.62	2,281.38
Demo On Road Diesel	0.29	4.16	1.48	0.00	0.02	0.16	0.18	0.01	0.15	0.16	529.80
Demo Worker Trips	0.04	0.08	1.43	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.50
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 6/16/2009-7/3/2009 Active Days: 14	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21
Time Slice 7/6/2009-7/15/2009 Active Days: 8	41.43	<u>192.13</u>	844.70	0.91	<u>63.39</u>	<u>10.01</u>	<u>73.40</u>	<u>13.85</u>	<u>9.01</u>	<u>22.86</u>	98,587.32
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Fine Grading 06/15/2009-07/15/2009	11.29	91.15	49.61	0.01	59.35	4.97	64.32	12.40	4.57	16.97	8,300.76
Fine Grading Dust	0.00	0.00	0.00	0.00	59.32	0.00	59.32	12.39	0.00	12.39	0.00
Fine Grading Off Road Diesel	10.88	86.60	44.65	0.00	0.00	4.79	4.79	0.00	4.40	4.40	7,374.72
Fine Grading On Road Diesel	0.30	4.34	1.55	0.01	0.02	0.17	0.19	0.01	0.16	0.16	552.83
Fine Grading Worker Trips	0.11	0.20	3.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	373.21

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Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 7/16/2009-9/30/2009 Active Days: 55	30.14	100.98	795.09	0.90	4.03	5.04	9.08	1.45	4.44	5.89	90,286.57
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 10/1/2009-12/31/2009 Active Days: 66	<u>58.85</u>	177.22	<u>1,581.27</u>	<u>1.79</u>	8.05	9.36	17.41	2.90	8.21	11.11	<u>177,667.02</u>
Building 07/04/2009-12/31/2010	27.05	75.13	781.78	0.90	4.02	3.79	7.81	1.45	3.29	4.74	87,602.20
Building Off Road Diesel	2.21	16.23	7.09	0.00	0.00	0.75	0.75	0.00	0.69	0.69	1,842.95
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Building 10/01/2009-05/31/2011	28.71	76.24	786.19	0.90	4.02	4.32	8.34	1.45	3.77	5.22	87,380.45
Building Off Road Diesel	3.87	17.35	11.50	0.00	0.00	1.28	1.28	0.00	1.17	1.17	1,621.20
Building Vendor Trips	1.10	13.79	10.42	0.02	0.08	0.56	0.64	0.03	0.51	0.54	2,384.61
Building Worker Trips	23.73	45.10	764.26	0.87	3.94	2.49	6.42	1.42	2.09	3.51	83,374.64
Trenching 07/04/2009-11/30/2010	3.09	25.86	13.31	0.00	0.01	1.25	1.26	0.00	1.15	1.15	2,684.36
Trenching Off Road Diesel	3.02	25.72	11.03	0.00	0.00	1.24	1.24	0.00	1.14	1.14	2,435.56
Trenching Worker Trips	0.07	0.13	2.28	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.81
Time Slice 1/1/2010-1/29/2010 Active Days: 21	53.50	161.65	1,449.19	1.79	8.05	9.04	17.09	2.90	7.90	10.80	177,654.10
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 2/1/2010-3/31/2010 Active Days: 43	79.58	231.11	2,169.52	2.69	12.07	13.22	25.30	4.35	11.54	15.89	265,028.10
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00

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Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 4/1/2010-11/30/2010 Active Days: 174	<u>106.16</u>	<u>306.28</u>	<u>2,891.58</u>	<u>3.59</u>	<u>16.09</u>	<u>17.60</u>	<u>33.69</u>	<u>5.80</u>	<u>15.36</u>	<u>21.16</u>	<u>353,134.14</u>
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Trenching 07/04/2009-11/30/2010	2.88	24.02	12.98	0.00	0.01	1.17	1.18	0.00	1.07	1.08	2,684.34
Trenching Off Road Diesel	2.82	23.90	10.89	0.00	0.00	1.16	1.16	0.00	1.07	1.07	2,435.56
Trenching Worker Trips	0.06	0.12	2.09	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.79
Time Slice 12/1/2010-12/31/2010 Active Days: 23	103.28	282.26	2,878.60	3.58	16.08	16.43	32.51	5.80	14.28	20.08	350,449.80
Building 02/01/2010-03/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 04/01/2010-12/31/2010	26.58	75.17	722.07	0.90	4.02	4.37	8.39	1.45	3.82	5.26	88,106.04
Building Off Road Diesel	4.15	22.25	12.94	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,353.24
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 07/04/2009-12/31/2010	24.54	68.17	715.89	0.90	4.02	3.68	7.70	1.45	3.18	4.63	87,595.75
Building Off Road Diesel	2.11	15.26	6.76	0.00	0.00	0.69	0.69	0.00	0.63	0.63	1,842.95
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Building 10/01/2009-05/31/2011	26.08	69.46	720.32	0.90	4.02	4.19	8.21	1.45	3.64	5.09	87,374.00
Building Off Road Diesel	3.65	16.55	11.20	0.00	0.00	1.19	1.19	0.00	1.10	1.10	1,621.20
Building Vendor Trips	1.02	12.51	9.67	0.02	0.08	0.50	0.58	0.03	0.46	0.49	2,384.70
Building Worker Trips	21.41	40.40	699.45	0.87	3.94	2.49	6.43	1.42	2.09	3.51	83,368.11
Time Slice 1/3/2011-3/31/2011 Active Days: 64	204.05	127.49	1,335.25	1.79	8.05	8.17	16.22	2.90	7.09	9.99	174,951.86
Building 02/01/2010-03/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20

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Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 4/1/2011-4/29/2011 Active Days: 21	187.38	100.97	691.02	0.91	4.07	7.16	11.23	1.47	6.37	7.84	91,139.26
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Time Slice 5/2/2011-5/31/2011 Active Days: 22	<b>209.14</b>	<b>157.86</b>	<b>1,351.77</b>	<b>1.80</b>	<b>8.09</b>	<b>10.57</b>	<b>18.66</b>	<b>2.91</b>	<b>9.29</b>	<b>12.21</b>	<b>177,991.18</b>
Asphalt 04/01/2011-05/31/2011	6.99	37.17	22.52	0.01	0.04	3.07	3.11	0.01	2.83	2.84	3,549.60
Paving Off-Gas	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	5.39	32.61	18.52	0.00	0.00	2.89	2.89	0.00	2.66	2.66	2,544.82
Paving On Road Diesel	0.32	4.42	1.59	0.01	0.02	0.17	0.19	0.01	0.15	0.16	693.85
Paving Worker Trips	0.07	0.14	2.41	0.00	0.01	0.01	0.02	0.01	0.01	0.01	310.94
Building 05/01/2011-05/31/2011	21.76	56.89	660.74	0.90	4.02	3.41	7.43	1.45	2.92	4.37	86,851.92
Building Off Road Diesel	1.50	8.86	4.84	0.00	0.00	0.46	0.46	0.00	0.43	0.43	1,110.91
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Building 10/01/2009-05/31/2011	23.65	63.70	666.74	0.90	4.02	4.08	8.10	1.45	3.54	4.99	87,362.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.94	11.22	8.94	0.02	0.08	0.45	0.53	0.03	0.41	0.44	2,384.81
Building Worker Trips	19.32	36.81	646.96	0.87	3.94	2.50	6.44	1.42	2.09	3.51	83,356.20
Coating 01/01/2011-05/31/2011	156.75	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45
Architectural Coating	156.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01	227.45

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

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PM10: 61% PM25: 61%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Building Demolition during Renovation

Building Volume Total (cubic feet): 90000

Building Volume Daily (cubic feet): 9000

On Road Truck Travel (VMT): 125

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 6/15/2009 - 7/15/2009 - Grub, clear, and grade

Total Acres Disturbed: 105.31

Maximum Daily Acreage Disturbed: 26.33

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 130.43

Off-Road Equipment:

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/4/2009 - 11/30/2010 - Utilities

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 4/1/2011 - 5/31/2011 - Paving

Acres to be Paved: 19.61

Off-Road Equipment:

2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

4 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

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Phase: Building Construction 7/4/2009 - 12/31/2010 - Foundations

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 10/1/2009 - 5/31/2011 - Building Group 1

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/1/2010 - 3/31/2011 - Building Group 2

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 4/1/2010 - 12/31/2010 - Building Group 3

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 5/1/2011 - 5/31/2011 - Ancillary construction, fencing, and finish

Off-Road Equipment:

- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/1/2011 - 5/31/2011 - Painting

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

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Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Urbemis 2007 Version 9.2.4

## Detail Report for Winter Area Source Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## 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	0.42	5.74	4.82	0.00	0.01	0.01	6,886.44
Hearth							
Landscaping - No Winter							
Consumer Products	0.00						
Architectural Coatings	4.62						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>5.04</b>	<b>5.74</b>	<b>4.82</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>6,886.44</b>

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.4

## Detail Report for Winter Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan Operations.urb924

Project Name: RJ Donovan Operations

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## OPERATIONAL EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hospital	15.57	27.65	171.84	0.16	30.36	6.08	16,883.94
<b>TOTALS (lbs/day, unmitigated)</b>	<b>15.57</b>	<b>27.65</b>	<b>171.84</b>	<b>0.16</b>	<b>30.36</b>	<b>6.08</b>	<b>16,883.94</b>

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 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
Hospital		1,776.00	1000 sq ft	1.00	1,776.00	17,427.00
					1,776.00	17,427.00

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	45.5	0.9	98.9	0.2
Light Truck < 3750 lbs	9.6	2.1	92.7	5.2
Light Truck 3751-5750 lbs	21.8	0.5	99.5	0.0

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Med Truck 5751-8500 lbs	12.1	0.8	98.4	0.8
Lite-Heavy Truck 8501-10,000 lbs	1.9	0.0	78.9	21.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.8	0.0	12.5	87.5
Heavy-Heavy Truck 33,001-60,000 lbs	1.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	4.5	62.2	37.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.5	0.0	86.7	13.3

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		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)				25.0	12.5	62.5

Operational Changes to Defaults

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Projects\Donovan Prison\RJ Donovan.urb924

Project Name: RJ Donovan Correctional Facility

Project Location: Riverside County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	3.04	10.25	77.90	0.09	3.44	0.54	3.98	0.78	0.47	1.25	8,818.81
2009 TOTALS (tons/year mitigated)	3.04	10.25	77.90	0.09	1.10	0.54	1.63	0.29	0.47	0.76	8,818.81
Percent Reduction	0.00	0.00	0.00	0.00	68.15	0.00	58.98	62.94	0.00	39.15	0.00
2010 TOTALS (tons/year unmitigated)	12.70	36.56	346.53	0.43	1.93	2.10	4.03	0.70	1.83	2.53	42,316.32
2010 TOTALS (tons/year mitigated)	12.70	36.56	346.53	0.43	1.93	2.10	4.03	0.70	1.83	2.53	42,316.32
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011 TOTALS (tons/year unmitigated)	10.80	6.88	64.85	0.09	0.39	0.45	0.84	0.14	0.40	0.54	8,513.32
2011 TOTALS (tons/year mitigated)	10.80	6.88	64.85	0.09	0.39	0.45	0.84	0.14	0.40	0.54	8,513.32
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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)	0.99	1.06	1.73	0.00	0.00	0.00	1,258.32

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)	2.61	4.51	32.01	0.03	5.54	1.11	3,283.32

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)	3.60	5.57	3.60	0.03	5.54	1.11	4,541.64

