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Urbemis 2007 Version 9.2.4

Summary Report for Summer Emissions (Pounds/Day)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2012 TOTALS (lbs/day unmitigated)	10.01	84.06	44.53	0.00	1,042.41	3.94	1,046.36	217.70	3.63	221.33	9,168.77
2012 TOTALS (lbs/day mitigated)	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
2013 TOTALS (lbs/day unmitigated)	9.60	78.73	42.34	0.00	1,042.41	3.64	1,046.06	217.70	3.35	221.05	9,168.78
2013 TOTALS (lbs/day mitigated)	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
2014 TOTALS (lbs/day unmitigated)	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
2014 TOTALS (lbs/day mitigated)	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
2015 TOTALS (lbs/day unmitigated)	8.51	67.05	38.90	0.00	1,042.41	3.03	1,045.45	217.70	2.79	220.49	9,168.79
2015 TOTALS (lbs/day mitigated)	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
2016 TOTALS (lbs/day unmitigated)	8.01	61.58	37.52	0.01	1,042.41	2.75	1,045.16	217.70	2.53	220.23	9,168.77

2016 TOTALS (lbs/day mitigated)	8.01	61.58	37.52	0.01	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
2017 TOTALS (lbs/day unmitigated)	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
2017 TOTALS (lbs/day mitigated)	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
2018 TOTALS (lbs/day unmitigated)	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
2018 TOTALS (lbs/day mitigated)	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
2019 TOTALS (lbs/day unmitigated)	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
2019 TOTALS (lbs/day mitigated)	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
2020 TOTALS (lbs/day unmitigated)	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
2020 TOTALS (lbs/day mitigated)	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
2021 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2021 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2022 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2022 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2023 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2023 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2024 TOTALS (lbs/day unmitigated)	74.30	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68

2024 TOTALS (lbs/day mitigated)	74.30	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2025 TOTALS (lbs/day unmitigated)	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
2025 TOTALS (lbs/day mitigated)	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	53.99	16.27	30.33	0.00	0.09	0.09	20,128.31

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	37.36	32.86	386.23	0.95	151.46	29.42	95,701.32

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	91.35	49.13	416.56	0.95	151.55	29.51	115,829.63

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

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 1/3/2012-1/13/2012 Active Days: 9	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Demolition 01/03/2012-01/13/2012	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	4.99	41.17	24.10	0.00	0.00	1.92	1.92	0.00	1.77	1.77	4,132.45
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.04	0.06	1.22	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	10.01	84.06	44.53	0.00	**1,042.41**	3.94	1,046.36	**217.70**	3.63	221.33	9,168.77
Mass Grading 01/16/2012-12/12/2014	10.01	84.06	44.53	0.00	1,042.41	3.94	1,046.36	217.70	3.63	221.33	9,168.77
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.94	83.94	42.08	0.00	0.00	3.94	3.94	0.00	3.62	3.62	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.07	0.12	2.44	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.90

Time Slice 1/1/2013-12/31/2013 Active Days: 261	9.60	78.73	42.34	0.00	**1,042.41**	3.64	1,046.06	**217.70**	3.35	221.05	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.60	78.73	42.34	0.00	1,042.41	3.64	1,046.06	217.70	3.35	221.05	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.53	78.62	40.07	0.00	0.00	3.63	3.63	0.00	3.34	3.34	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.11	2.27	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	9.06	73.00	40.61	0.00	**1,042.41**	3.30	1,045.72	**217.70**	3.04	220.74	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	9.06	73.00	40.61	0.00	**1,042.41**	3.30	1,045.72	**217.70**	3.04	220.74	9,168.78
Fine Grading 12/15/2014-03/18/2016	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	8.51	67.05	38.90	0.00	**1,042.41**	3.03	1,045.45	**217.70**	2.79	220.49	9,168.79
Fine Grading 12/15/2014-03/18/2016	8.51	67.05	38.90	0.00	1,042.41	3.03	1,045.45	217.70	2.79	220.49	9,168.79
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	8.46	66.95	36.93	0.00	0.00	3.02	3.02	0.00	2.78	2.78	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.10	1.97	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	8.01	61.58	37.52	0.00	**1,042.41**	2.75	1,045.16	**217.70**	2.53	220.23	9,168.77
Fine Grading 12/15/2014-03/18/2016	8.01	61.58	37.52	0.00	1,042.41	2.75	1,045.16	217.70	2.53	220.23	9,168.77
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	7.96	61.49	35.68	0.00	0.00	2.74	2.74	0.00	2.52	2.52	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.09	1.84	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching 03/21/2016-08/19/2016	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching Off Road Diesel	1.39	10.35	7.83	0.00	0.00	0.47	0.47	0.00	0.43	0.43	1,714.64
Trenching Worker Trips	0.02	0.04	0.74	0.00	0.01	0.00	0.01	0.00	0.00	0.01	130.36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Asphalt 08/22/2016-01/20/2017	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.72	9.91	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,418.81
Paving On Road Diesel	0.23	2.42	1.00	0.01	0.02	0.09	0.12	0.01	0.08	0.09	720.89
Paving Worker Trips	0.02	0.04	0.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Asphalt 08/22/2016-01/20/2017	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.09	12.86	9.83	0.00	0.00	1.05	1.05	0.00	0.97	0.97	1,418.81
Paving On Road Diesel	0.21	2.15	0.89	0.01	0.02	0.08	0.10	0.01	0.07	0.08	720.89
Paving Worker Trips	0.02	0.04	0.86	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95

Time Slice 1/23/2017-12/29/2017 Active Days: 245	6.03	29.73	122.40	**0.23**	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building 01/23/2017-05/17/2024	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building Off Road Diesel	2.25	13.62	12.45	0.00	0.00	0.77	0.77	0.00	0.71	0.71	2,259.28
Building Vendor Trips	1.27	11.49	13.13	0.05	0.18	0.48	0.66	0.06	0.44	0.50	5,244.55
Building Worker Trips	2.51	4.62	96.82	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.67
Time Slice 1/1/2018-12/31/2018 Active Days: 261	5.51	27.02	114.81	**0.23**	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building 01/23/2017-05/17/2024	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building Off Road Diesel	2.03	12.45	12.26	0.00	0.00	0.67	0.67	0.00	0.62	0.62	2,259.28
Building Vendor Trips	1.17	10.30	12.28	0.05	0.18	0.43	0.62	0.06	0.40	0.46	5,244.88
Building Worker Trips	2.31	4.26	90.27	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	5.09	24.62	107.85	**0.23**	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building 01/23/2017-05/17/2024	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building Off Road Diesel	1.88	11.39	12.14	0.00	0.00	0.57	0.57	0.00	0.52	0.52	2,259.28
Building Vendor Trips	1.08	9.30	11.51	0.05	0.18	0.39	0.57	0.06	0.36	0.42	5,245.21
Building Worker Trips	2.13	3.93	84.20	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	4.66	22.58	101.26	**0.23**	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building 01/23/2017-05/17/2024	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	1.01	8.46	10.82	0.05	0.18	0.36	0.54	0.06	0.33	0.39	5,245.55
Building Worker Trips	1.94	3.62	78.40	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.53
Time Slice 1/1/2021-12/31/2021 Active Days: 261	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38

Time Slice 1/3/2022-12/30/2022 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0
On Road Truck Travel (VMT): 0
Off-Road Equipment:
3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description
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: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Mitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 1/3/2012-1/13/2012 Active Days: 9	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Demolition 01/03/2012-01/13/2012	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	4.99	41.17	24.10	0.00	0.00	1.92	1.92	0.00	1.77	1.77	4,132.45
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.04	0.06	1.22	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
Mass Grading 01/16/2012-12/12/2014	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.94	83.94	42.08	0.00	0.00	3.94	3.94	0.00	3.62	3.62	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.07	0.12	2.44	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.90

Time Slice 1/1/2013-12/31/2013 Active Days: 261	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.53	78.62	40.07	0.00	0.00	3.63	3.63	0.00	3.34	3.34	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.11	2.27	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Fine Grading 12/15/2014-03/18/2016	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
Fine Grading 12/15/2014-03/18/2016	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	8.46	66.95	36.93	0.00	0.00	3.02	3.02	0.00	2.78	2.78	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.10	1.97	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	8.01	61.58	37.52	0.00	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
Fine Grading 12/15/2014-03/18/2016	8.01	61.58	37.52	0.00	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	7.96	61.49	35.68	0.00	0.00	2.74	2.74	0.00	2.52	2.52	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.09	1.84	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching 03/21/2016-08/19/2016	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching Off Road Diesel	1.39	10.35	7.83	0.00	0.00	0.47	0.47	0.00	0.43	0.43	1,714.64
Trenching Worker Trips	0.02	0.04	0.74	0.00	0.01	0.00	0.01	0.00	0.00	0.01	130.36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Asphalt 08/22/2016-01/20/2017	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.72	9.91	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,418.81
Paving On Road Diesel	0.23	2.42	1.00	0.01	0.02	0.09	0.12	0.01	0.08	0.09	720.89
Paving Worker Trips	0.02	0.04	0.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Asphalt 08/22/2016-01/20/2017	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.09	12.86	9.83	0.00	0.00	1.05	1.05	0.00	0.97	0.97	1,418.81
Paving On Road Diesel	0.21	2.15	0.89	0.01	0.02	0.08	0.10	0.01	0.07	0.08	720.89
Paving Worker Trips	0.02	0.04	0.86	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95

Time Slice 1/23/2017-12/29/2017 Active Days: 245	6.03	29.73	122.40	**0.23**	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building 01/23/2017-05/17/2024	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building Off Road Diesel	2.25	13.62	12.45	0.00	0.00	0.77	0.77	0.00	0.71	0.71	2,259.28
Building Vendor Trips	1.27	11.49	13.13	0.05	0.18	0.48	0.66	0.06	0.44	0.50	5,244.55
Building Worker Trips	2.51	4.62	96.82	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.67
Time Slice 1/1/2018-12/31/2018 Active Days: 261	5.51	27.02	114.81	**0.23**	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building 01/23/2017-05/17/2024	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building Off Road Diesel	2.03	12.45	12.26	0.00	0.00	0.67	0.67	0.00	0.62	0.62	2,259.28
Building Vendor Trips	1.17	10.30	12.28	0.05	0.18	0.43	0.62	0.06	0.40	0.46	5,244.88
Building Worker Trips	2.31	4.26	90.27	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	5.09	24.62	107.85	**0.23**	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building 01/23/2017-05/17/2024	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building Off Road Diesel	1.88	11.39	12.14	0.00	0.00	0.57	0.57	0.00	0.52	0.52	2,259.28
Building Vendor Trips	1.08	9.30	11.51	0.05	0.18	0.39	0.57	0.06	0.36	0.42	5,245.21
Building Worker Trips	2.13	3.93	84.20	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	4.66	22.58	101.26	**0.23**	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building 01/23/2017-05/17/2024	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	1.01	8.46	10.82	0.05	0.18	0.36	0.54	0.06	0.33	0.39	5,245.55
Building Worker Trips	1.94	3.62	78.40	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.53
Time Slice 1/1/2021-12/31/2021 Active Days: 261	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38

Time Slice 1/3/2022-12/30/2022 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 208.5

Maximum Daily Acreage Disturbed: 52.12

Fugitive Dust Level of Detail: Default

20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description
Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

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

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

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 Area Source Unmitigated Emissions (Pounds/Day)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.22	16.06	9.05	0.00	0.03	0.03	20,094.76
Hearth - No Summer Emissions							
Landscape	3.37	0.21	21.28	0.00	0.06	0.06	33.55
Consumer Products	44.02						
Architectural Coatings	5.38						
TOTALS (lbs/day, unmitigated)	53.99	16.27	30.33	0.00	0.09	0.09	20,128.31

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

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Urbemis 2007 Version 9.2.4

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

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	14.09	13.43	158.50	0.39	61.92	12.03	39,153.02
Apartments low rise	16.51	15.23	179.66	0.44	70.19	13.64	44,380.78
Elementary school	6.55	4.03	46.14	0.12	18.57	3.60	11,675.73
City park	0.21	0.17	1.93	0.00	0.78	0.15	491.79
TOTALS (lbs/day, unmitigated)	37.36	32.86	386.23	0.95	151.46	29.42	95,701.32

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 85 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
Single family housing	135.20	10.00	dwelling units	355.00	3,550.00	35,864.94
Apartments low rise	50.60	8.00	dwelling units	503.00	4,024.00	40,653.67

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Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Elementary school		2.02	1000 sq ft	553.20	1,117.46	10,761.18
City park		5.00	acres	10.00	50.00	454.12
					8,741.46	87,733.91

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.6	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.8	35.7	64.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Elementary school				20.0	10.0	70.0
City park				5.0	2.5	92.5

Operational Changes to Defaults

Ambient summer temperature changed from 80 degrees F to 85 degrees F

Ambient winter temperature changed from 60 degrees F to 40 degrees F

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Urbemis 2007 Version 9.2.4

Summary Report for Winter Emissions (Pounds/Day)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2012 TOTALS (lbs/day unmitigated)	10.01	84.06	44.53	0.00	1,042.41	3.94	1,046.36	217.70	3.63	221.33	9,168.77
2012 TOTALS (lbs/day mitigated)	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
2013 TOTALS (lbs/day unmitigated)	9.60	78.73	42.34	0.00	1,042.41	3.64	1,046.06	217.70	3.35	221.05	9,168.78
2013 TOTALS (lbs/day mitigated)	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
2014 TOTALS (lbs/day unmitigated)	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
2014 TOTALS (lbs/day mitigated)	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
2015 TOTALS (lbs/day unmitigated)	8.51	67.05	38.90	0.00	1,042.41	3.03	1,045.45	217.70	2.79	220.49	9,168.79
2015 TOTALS (lbs/day mitigated)	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
2016 TOTALS (lbs/day unmitigated)	8.01	61.58	37.52	0.01	1,042.41	2.75	1,045.16	217.70	2.53	220.23	9,168.77

2016 TOTALS (lbs/day mitigated)	8.01	61.58	37.52	0.01	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
2017 TOTALS (lbs/day unmitigated)	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
2017 TOTALS (lbs/day mitigated)	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
2018 TOTALS (lbs/day unmitigated)	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
2018 TOTALS (lbs/day mitigated)	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
2019 TOTALS (lbs/day unmitigated)	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
2019 TOTALS (lbs/day mitigated)	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
2020 TOTALS (lbs/day unmitigated)	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
2020 TOTALS (lbs/day mitigated)	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
2021 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2021 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2022 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2022 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2023 TOTALS (lbs/day unmitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2023 TOTALS (lbs/day mitigated)	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2024 TOTALS (lbs/day unmitigated)	74.30	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68

2024 TOTALS (lbs/day mitigated)	74.30	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
2025 TOTALS (lbs/day unmitigated)	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
2025 TOTALS (lbs/day mitigated)	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	50.96	21.79	11.49	0.04	0.49	0.49	27,404.17

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	34.85	48.71	382.33	0.77	151.46	29.42	82,903.30

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	85.81	70.50	393.82	0.81	151.95	29.91	110,307.47

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

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 1/3/2012-1/13/2012 Active Days: 9	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Demolition 01/03/2012-01/13/2012	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	4.99	41.17	24.10	0.00	0.00	1.92	1.92	0.00	1.77	1.77	4,132.45
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.04	0.06	1.22	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	10.01	84.06	44.53	0.00	**1,042.41**	3.94	1,046.36	**217.70**	3.63	221.33	9,168.77
Mass Grading 01/16/2012-12/12/2014	10.01	84.06	44.53	0.00	1,042.41	3.94	1,046.36	217.70	3.63	221.33	9,168.77
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.94	83.94	42.08	0.00	0.00	3.94	3.94	0.00	3.62	3.62	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.07	0.12	2.44	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.90

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Time Slice 1/1/2013-12/31/2013 Active Days: 261	9.60	78.73	42.34	0.00	**1,042.41**	3.64	1,046.06	**217.70**	3.35	221.05	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.60	78.73	42.34	0.00	1,042.41	3.64	1,046.06	217.70	3.35	221.05	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.53	78.62	40.07	0.00	0.00	3.63	3.63	0.00	3.34	3.34	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.11	2.27	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	9.06	73.00	40.61	0.00	**1,042.41**	3.30	1,045.72	**217.70**	3.04	220.74	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Mass Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	9.06	73.00	40.61	0.00	**1,042.41**	3.30	1,045.72	**217.70**	3.04	220.74	9,168.78
Fine Grading 12/15/2014-03/18/2016	9.06	73.00	40.61	0.00	1,042.41	3.30	1,045.72	217.70	3.04	220.74	9,168.78
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	8.51	67.05	38.90	0.00	**1,042.41**	3.03	1,045.45	**217.70**	2.79	220.49	9,168.79
Fine Grading 12/15/2014-03/18/2016	8.51	67.05	38.90	0.00	1,042.41	3.03	1,045.45	217.70	2.79	220.49	9,168.79
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	8.46	66.95	36.93	0.00	0.00	3.02	3.02	0.00	2.78	2.78	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.10	1.97	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	8.01	61.58	37.52	0.00	**1,042.41**	2.75	1,045.16	**217.70**	2.53	220.23	9,168.77
Fine Grading 12/15/2014-03/18/2016	8.01	61.58	37.52	0.00	1,042.41	2.75	1,045.16	217.70	2.53	220.23	9,168.77
Fine Grading Dust	0.00	0.00	0.00	0.00	1,042.40	0.00	1,042.40	217.69	0.00	217.69	0.00
Fine Grading Off Road Diesel	7.96	61.49	35.68	0.00	0.00	2.74	2.74	0.00	2.52	2.52	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.09	1.84	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching 03/21/2016-08/19/2016	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching Off Road Diesel	1.39	10.35	7.83	0.00	0.00	0.47	0.47	0.00	0.43	0.43	1,714.64
Trenching Worker Trips	0.02	0.04	0.74	0.00	0.01	0.00	0.01	0.00	0.00	0.01	130.36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Asphalt 08/22/2016-01/20/2017	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.72	9.91	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,418.81
Paving On Road Diesel	0.23	2.42	1.00	0.01	0.02	0.09	0.12	0.01	0.08	0.09	720.89
Paving Worker Trips	0.02	0.04	0.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Asphalt 08/22/2016-01/20/2017	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.09	12.86	9.83	0.00	0.00	1.05	1.05	0.00	0.97	0.97	1,418.81
Paving On Road Diesel	0.21	2.15	0.89	0.01	0.02	0.08	0.10	0.01	0.07	0.08	720.89
Paving Worker Trips	0.02	0.04	0.86	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95

Time Slice 1/23/2017-12/29/2017 Active Days: 245	6.03	29.73	122.40	**0.23**	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building 01/23/2017-05/17/2024	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building Off Road Diesel	2.25	13.62	12.45	0.00	0.00	0.77	0.77	0.00	0.71	0.71	2,259.28
Building Vendor Trips	1.27	11.49	13.13	0.05	0.18	0.48	0.66	0.06	0.44	0.50	5,244.55
Building Worker Trips	2.51	4.62	96.82	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.67
Time Slice 1/1/2018-12/31/2018 Active Days: 261	5.51	27.02	114.81	**0.23**	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building 01/23/2017-05/17/2024	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building Off Road Diesel	2.03	12.45	12.26	0.00	0.00	0.67	0.67	0.00	0.62	0.62	2,259.28
Building Vendor Trips	1.17	10.30	12.28	0.05	0.18	0.43	0.62	0.06	0.40	0.46	5,244.88
Building Worker Trips	2.31	4.26	90.27	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	5.09	24.62	107.85	**0.23**	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building 01/23/2017-05/17/2024	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building Off Road Diesel	1.88	11.39	12.14	0.00	0.00	0.57	0.57	0.00	0.52	0.52	2,259.28
Building Vendor Trips	1.08	9.30	11.51	0.05	0.18	0.39	0.57	0.06	0.36	0.42	5,245.21
Building Worker Trips	2.13	3.93	84.20	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	4.66	22.58	101.26	**0.23**	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building 01/23/2017-05/17/2024	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	1.01	8.46	10.82	0.05	0.18	0.36	0.54	0.06	0.33	0.39	5,245.55
Building Worker Trips	1.94	3.62	78.40	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.53
Time Slice 1/1/2021-12/31/2021 Active Days: 261	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38

Time Slice 1/3/2022-12/30/2022 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0
On Road Truck Travel (VMT): 0
Off-Road Equipment:
3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description
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: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Mitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 1/3/2012-1/13/2012 Active Days: 9	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Demolition 01/03/2012-01/13/2012	5.03	41.23	25.32	0.00	0.01	1.93	1.94	0.00	1.77	1.78	4,295.41
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	4.99	41.17	24.10	0.00	0.00	1.92	1.92	0.00	1.77	1.77	4,132.45
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.04	0.06	1.22	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
Mass Grading 01/16/2012-12/12/2014	10.01	84.06	44.53	0.00	96.64	3.94	100.58	20.18	3.63	23.81	9,168.77
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.94	83.94	42.08	0.00	0.00	3.94	3.94	0.00	3.62	3.62	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.07	0.12	2.44	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.90

Time Slice 1/1/2013-12/31/2013 Active Days: 261	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.60	78.73	42.34	0.00	96.64	3.64	100.28	20.18	3.35	23.53	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.53	78.62	40.07	0.00	0.00	3.63	3.63	0.00	3.34	3.34	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.11	2.27	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Mass Grading 01/16/2012-12/12/2014	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Mass Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Mass Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Fine Grading 12/15/2014-03/18/2016	9.06	73.00	40.61	0.00	96.64	3.30	99.94	20.18	3.04	23.22	9,168.78
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	9.01	72.90	38.49	0.00	0.00	3.29	3.29	0.00	3.03	3.03	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.06	0.10	2.12	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
Fine Grading 12/15/2014-03/18/2016	8.51	67.05	38.90	0.00	96.64	3.03	99.67	20.18	2.79	22.97	9,168.79
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	8.46	66.95	36.93	0.00	0.00	3.02	3.02	0.00	2.78	2.78	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.10	1.97	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	8.01	61.58	37.52	0.00	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
Fine Grading 12/15/2014-03/18/2016	8.01	61.58	37.52	0.00	96.64	2.75	99.39	20.18	2.53	22.71	9,168.77
Fine Grading Dust	0.00	0.00	0.00	0.00	96.63	0.00	96.63	20.18	0.00	20.18	0.00
Fine Grading Off Road Diesel	7.96	61.49	35.68	0.00	0.00	2.74	2.74	0.00	2.52	2.52	8,842.87
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.09	1.84	0.00	0.01	0.01	0.02	0.01	0.01	0.01	325.91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching 03/21/2016-08/19/2016	1.41	10.38	8.56	0.00	0.01	0.47	0.48	0.00	0.43	0.43	1,845.00
Trenching Off Road Diesel	1.39	10.35	7.83	0.00	0.00	0.47	0.47	0.00	0.43	0.43	1,714.64
Trenching Worker Trips	0.02	0.04	0.74	0.00	0.01	0.00	0.01	0.00	0.00	0.01	130.36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Asphalt 08/22/2016-01/20/2017	3.71	16.19	11.82	0.01	0.03	1.24	1.27	0.01	1.14	1.15	2,302.66
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.72	9.91	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,418.81
Paving On Road Diesel	0.23	2.42	1.00	0.01	0.02	0.09	0.12	0.01	0.08	0.09	720.89
Paving Worker Trips	0.02	0.04	0.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Asphalt 08/22/2016-01/20/2017	3.56	15.05	11.58	0.01	0.03	1.14	1.17	0.01	1.05	1.06	2,302.65
Paving Off-Gas	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.09	12.86	9.83	0.00	0.00	1.05	1.05	0.00	0.97	0.97	1,418.81
Paving On Road Diesel	0.21	2.15	0.89	0.01	0.02	0.08	0.10	0.01	0.07	0.08	720.89
Paving Worker Trips	0.02	0.04	0.86	0.00	0.01	0.00	0.01	0.00	0.00	0.01	162.95

Time Slice 1/23/2017-12/29/2017 Active Days: 245	6.03	29.73	122.40	**0.23**	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building 01/23/2017-05/17/2024	6.03	29.73	122.40	0.23	1.01	1.78	2.79	0.36	1.59	1.95	25,889.50
Building Off Road Diesel	2.25	13.62	12.45	0.00	0.00	0.77	0.77	0.00	0.71	0.71	2,259.28
Building Vendor Trips	1.27	11.49	13.13	0.05	0.18	0.48	0.66	0.06	0.44	0.50	5,244.55
Building Worker Trips	2.51	4.62	96.82	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.67
Time Slice 1/1/2018-12/31/2018 Active Days: 261	5.51	27.02	114.81	**0.23**	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building 01/23/2017-05/17/2024	5.51	27.02	114.81	0.23	1.01	1.63	2.64	0.36	1.45	1.81	25,889.94
Building Off Road Diesel	2.03	12.45	12.26	0.00	0.00	0.67	0.67	0.00	0.62	0.62	2,259.28
Building Vendor Trips	1.17	10.30	12.28	0.05	0.18	0.43	0.62	0.06	0.40	0.46	5,244.88
Building Worker Trips	2.31	4.26	90.27	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,385.78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	5.09	24.62	107.85	**0.23**	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building 01/23/2017-05/17/2024	5.09	24.62	107.85	0.23	1.01	1.48	2.49	0.36	1.32	1.68	25,890.60
Building Off Road Diesel	1.88	11.39	12.14	0.00	0.00	0.57	0.57	0.00	0.52	0.52	2,259.28
Building Vendor Trips	1.08	9.30	11.51	0.05	0.18	0.39	0.57	0.06	0.36	0.42	5,245.21
Building Worker Trips	2.13	3.93	84.20	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	4.66	22.58	101.26	**0.23**	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building 01/23/2017-05/17/2024	4.66	22.58	101.26	0.23	1.01	1.38	2.39	0.36	1.22	1.58	25,891.36
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	1.01	8.46	10.82	0.05	0.18	0.36	0.54	0.06	0.33	0.39	5,245.55
Building Worker Trips	1.94	3.62	78.40	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,386.53
Time Slice 1/1/2021-12/31/2021 Active Days: 261	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38

Time Slice 1/3/2022-12/30/2022 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	**25,895.68**
Building 01/23/2017-05/17/2024	3.74	18.89	76.90	0.23	1.01	1.28	2.29	0.36	1.13	1.49	25,895.68
Building Off Road Diesel	1.71	10.50	12.03	0.00	0.00	0.50	0.50	0.00	0.46	0.46	2,259.28
Building Vendor Trips	0.76	5.89	8.39	0.05	0.18	0.26	0.44	0.06	0.24	0.30	5,247.02
Building Worker Trips	1.27	2.49	56.48	0.18	0.83	0.52	1.35	0.30	0.44	0.74	18,389.38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Coating 05/20/2024-05/23/2025	74.30	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16
Architectural Coating	74.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.75	0.00	0.01	0.01	0.02	0.00	0.01	0.01	245.16

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 208.5

Maximum Daily Acreage Disturbed: 52.12

Fugitive Dust Level of Detail: Default

20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description
Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

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

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

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 Area Source Unmitigated Emissions (Pounds/Day)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.22	16.06	9.05	0.00	0.03	0.03	20,094.76
Hearth	0.34	5.73	2.44	0.04	0.46	0.46	7,309.41
Landscaping - No Winter Emissions							
Consumer Products	44.02						
Architectural Coatings	5.38						
TOTALS (lbs/day, unmitigated)	50.96	21.79	11.49	0.04	0.49	0.49	27,404.17

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

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Urbemis 2007 Version 9.2.4

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

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	14.26	19.92	156.76	0.32	61.92	12.03	33,921.29
Apartments low rise	16.17	22.57	177.69	0.36	70.19	13.64	38,450.50
Elementary school	4.24	5.97	45.94	0.09	18.57	3.60	10,105.97
City park	0.18	0.25	1.94	0.00	0.78	0.15	425.54
TOTALS (lbs/day, unmitigated)	34.85	48.71	382.33	0.77	151.46	29.42	82,903.30

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 40 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
Single family housing	135.20	10.00	dwelling units	355.00	3,550.00	35,864.94
Apartments low rise	50.60	8.00	dwelling units	503.00	4,024.00	40,653.67

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Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Elementary school		2.02	1000 sq ft	553.20	1,117.46	10,761.18
City park		5.00	acres	10.00	50.00	454.12
					8,741.46	87,733.91

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.6	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.8	35.7	64.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Elementary school				20.0	10.0	70.0
City park				5.0	2.5	92.5

Operational Changes to Defaults

Ambient summer temperature changed from 80 degrees F to 85 degrees F

Ambient winter temperature changed from 60 degrees F to 40 degrees F

2/20/2009 10:46:47 AM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2012 TOTALS (tons/year unmitigated)	1.28	10.74	5.70	0.00	130.82	0.50	131.33	27.32	0.46	27.78	1,170.01
2012 TOTALS (tons/year mitigated)	1.28	10.74	5.70	0.00	12.13	0.50	12.63	2.53	0.46	3.00	1,170.01
Percent Reduction	0.00	0.00	0.00	0.00	90.73	0.00	90.38	90.73	0.00	89.22	0.00
2013 TOTALS (tons/year unmitigated)	1.25	10.27	5.53	0.00	136.04	0.48	136.51	28.41	0.44	28.85	1,196.53
2013 TOTALS (tons/year mitigated)	1.25	10.27	5.53	0.00	12.61	0.48	13.09	2.63	0.44	3.07	1,196.53
Percent Reduction	0.00	0.00	0.00	0.00	90.73	0.00	90.41	90.73	0.00	89.35	0.00
2014 TOTALS (tons/year unmitigated)	1.18	9.53	5.30	0.00	136.04	0.43	136.47	28.41	0.40	28.81	1,196.53
2014 TOTALS (tons/year mitigated)	1.18	9.53	5.30	0.00	12.61	0.43	13.04	2.63	0.40	3.03	1,196.53
Percent Reduction	0.00	0.00	0.00	0.00	90.73	0.00	90.44	90.73	0.00	89.48	0.00
2015 TOTALS (tons/year unmitigated)	1.11	8.75	5.08	0.00	136.04	0.40	136.43	28.41	0.36	28.77	1,196.53

2015 TOTALS (tons/year mitigated)	1.11	8.75	5.08	0.00	12.61	0.40	13.01	2.63	0.36	3.00	1,196.53
Percent Reduction	0.00	0.00	0.00	0.00	90.73	0.00	90.47	90.73	0.00	89.58	0.00
2016 TOTALS (tons/year unmitigated)	0.48	3.06	2.08	0.00	29.19	0.16	29.35	6.10	0.15	6.24	467.58
2016 TOTALS (tons/year mitigated)	0.48	3.06	2.08	0.00	2.71	0.16	2.87	0.57	0.15	0.71	467.58
Percent Reduction	0.00	0.00	0.00	0.00	90.72	0.00	90.22	90.72	0.00	88.56	0.00
2017 TOTALS (tons/year unmitigated)	0.77	3.76	15.08	0.03	0.12	0.23	0.35	0.04	0.20	0.25	3,188.73
2017 TOTALS (tons/year mitigated)	0.77	3.76	15.08	0.03	0.12	0.23	0.35	0.04	0.20	0.25	3,188.73
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018 TOTALS (tons/year unmitigated)	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
2018 TOTALS (tons/year mitigated)	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019 TOTALS (tons/year unmitigated)	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
2019 TOTALS (tons/year mitigated)	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020 TOTALS (tons/year unmitigated)	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
2020 TOTALS (tons/year mitigated)	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021 TOTALS (tons/year unmitigated)	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39

2021 TOTALS (tons/year mitigated)	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022 TOTALS (tons/year unmitigated)	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
2022 TOTALS (tons/year mitigated)	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023 TOTALS (tons/year unmitigated)	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
2023 TOTALS (tons/year mitigated)	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024 TOTALS (tons/year unmitigated)	6.21	0.95	3.91	0.01	0.05	0.06	0.12	0.02	0.06	0.08	1,314.64
2024 TOTALS (tons/year mitigated)	6.21	0.95	3.91	0.01	0.05	0.06	0.12	0.02	0.06	0.08	1,314.64
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025 TOTALS (tons/year unmitigated)	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
2025 TOTALS (tons/year mitigated)	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	9.84	2.97	5.53	0.00	0.02	0.02	3,677.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	6.67	6.97	70.25	0.17	27.64	5.38	16,686.94

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	16.51	9.94	75.78	0.17	27.66	5.40	20,364.00

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Urbemis 2007 Version 9.2.4

Detail Report for Annual Construction Unmitigated Emissions (Tons/Year)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
2012	1.28	10.74	5.70	0.00	130.82	0.50	131.33	27.32	0.46	27.78	1,170.01
Demolition 01/03/2012-01/13/2012	0.02	0.19	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	19.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	0.02	0.19	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	18.60
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
Mass Grading 01/16/2012-12/12/2014	1.26	10.55	5.59	0.00	130.82	0.49	131.32	27.32	0.46	27.78	1,150.68
Mass Grading Dust	0.00	0.00	0.00	0.00	130.82	0.00	130.82	27.32	0.00	27.32	0.00
Mass Grading Off Road Diesel	1.25	10.53	5.28	0.00	0.00	0.49	0.49	0.00	0.45	0.45	1,109.78
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.90
2013	1.25	10.27	5.53	0.00	136.04	0.48	136.51	28.41	0.44	28.85	1,196.53
Mass Grading 01/16/2012-12/12/2014	1.25	10.27	5.53	0.00	136.04	0.48	136.51	28.41	0.44	28.85	1,196.53
Mass Grading Dust	0.00	0.00	0.00	0.00	136.03	0.00	136.03	28.41	0.00	28.41	0.00
Mass Grading Off Road Diesel	1.24	10.26	5.23	0.00	0.00	0.47	0.47	0.00	0.44	0.44	1,153.99
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.53

2014	1.18	9.53	5.30	0.00	136.04	0.43	136.47	28.41	0.40	28.81	1,196.53
Mass Grading 01/16/2012-12/12/2014	1.12	9.05	5.04	0.00	129.26	0.41	129.67	26.99	0.38	27.37	1,136.93
Mass Grading Dust	0.00	0.00	0.00	0.00	129.26	0.00	129.26	26.99	0.00	26.99	0.00
Mass Grading Off Road Diesel	1.12	9.04	4.77	0.00	0.00	0.41	0.41	0.00	0.38	0.38	1,096.52
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Fine Grading 12/15/2014-03/18/2016	0.06	0.47	0.26	0.00	6.78	0.02	6.80	1.42	0.02	1.43	59.60
Fine Grading Dust	0.00	0.00	0.00	0.00	6.78	0.00	6.78	1.42	0.00	1.42	0.00
Fine Grading Off Road Diesel	0.06	0.47	0.25	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12
2015	1.11	8.75	5.08	0.00	136.04	0.40	136.43	28.41	0.36	28.77	1,196.53
Fine Grading 12/15/2014-03/18/2016	1.11	8.75	5.08	0.00	136.04	0.40	136.43	28.41	0.36	28.77	1,196.53
Fine Grading Dust	0.00	0.00	0.00	0.00	136.03	0.00	136.03	28.41	0.00	28.41	0.00
Fine Grading Off Road Diesel	1.10	8.74	4.82	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,153.99
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.01	0.01	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.53

2016	0.48	3.06	2.08	0.00	29.19	0.16	29.35	6.10	0.15	6.24	467.58
Fine Grading 12/15/2014-03/18/2016	0.22	1.72	1.05	0.00	29.19	0.08	29.26	6.10	0.07	6.17	256.73
Fine Grading Dust	0.00	0.00	0.00	0.00	29.19	0.00	29.19	6.10	0.00	6.10	0.00
Fine Grading Off Road Diesel	0.22	1.72	1.00	0.00	0.00	0.08	0.08	0.00	0.07	0.07	247.60
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.13
Trenching 03/21/2016-08/19/2016	0.08	0.57	0.47	0.00	0.00	0.03	0.03	0.00	0.02	0.02	101.48
Trenching Off Road Diesel	0.08	0.57	0.43	0.00	0.00	0.03	0.03	0.00	0.02	0.02	94.31
Trenching Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17
Asphalt 08/22/2016-01/20/2017	0.18	0.77	0.56	0.00	0.00	0.06	0.06	0.00	0.05	0.05	109.38
Paving Off-Gas	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.11	0.65	0.47	0.00	0.00	0.05	0.05	0.00	0.05	0.05	67.39
Paving On Road Diesel	0.01	0.12	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	34.24
Paving Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.74
2017	0.77	3.76	15.08	0.03	0.12	0.23	0.35	0.04	0.20	0.25	3,188.73
Asphalt 08/22/2016-01/20/2017	0.03	0.11	0.09	0.00	0.00	0.01	0.01	0.00	0.01	0.01	17.27
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.02	0.10	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	10.64
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.41
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22
Building 01/23/2017-05/17/2024	0.74	3.64	14.99	0.03	0.12	0.22	0.34	0.04	0.19	0.24	3,171.46
Building Off Road Diesel	0.28	1.67	1.52	0.00	0.00	0.09	0.09	0.00	0.09	0.09	276.76
Building Vendor Trips	0.16	1.41	1.61	0.01	0.02	0.06	0.08	0.01	0.05	0.06	642.46
Building Worker Trips	0.31	0.57	11.86	0.02	0.10	0.06	0.17	0.04	0.05	0.09	2,252.24

2018	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
Building 01/23/2017-05/17/2024	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
Building Off Road Diesel	0.27	1.63	1.60	0.00	0.00	0.09	0.09	0.00	0.08	0.08	294.84
Building Vendor Trips	0.15	1.34	1.60	0.01	0.02	0.06	0.08	0.01	0.05	0.06	684.46
Building Worker Trips	0.30	0.56	11.78	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.34
2019	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
Building 01/23/2017-05/17/2024	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
Building Off Road Diesel	0.25	1.49	1.58	0.00	0.00	0.07	0.07	0.00	0.07	0.07	294.84
Building Vendor Trips	0.14	1.21	1.50	0.01	0.02	0.05	0.07	0.01	0.05	0.05	684.50
Building Worker Trips	0.28	0.51	10.99	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.39
2020	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
Building 01/23/2017-05/17/2024	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
Building Off Road Diesel	0.22	1.38	1.58	0.00	0.00	0.07	0.07	0.00	0.06	0.06	295.97
Building Vendor Trips	0.13	1.11	1.42	0.01	0.02	0.05	0.07	0.01	0.04	0.05	687.17
Building Worker Trips	0.25	0.47	10.27	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,408.64
2021	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39
Building 01/23/2017-05/17/2024	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39
Building Off Road Diesel	0.22	1.37	1.57	0.00	0.00	0.06	0.06	0.00	0.06	0.06	294.84
Building Vendor Trips	0.10	0.77	1.10	0.01	0.02	0.03	0.06	0.01	0.03	0.04	684.74
Building Worker Trips	0.17	0.33	7.37	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.81
2022	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building 01/23/2017-05/17/2024	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building Off Road Diesel	0.22	1.36	1.56	0.00	0.00	0.06	0.06	0.00	0.06	0.06	293.71
Building Vendor Trips	0.10	0.77	1.09	0.01	0.02	0.03	0.06	0.01	0.03	0.04	682.11
Building Worker Trips	0.17	0.32	7.34	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,390.62

2023	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building 01/23/2017-05/17/2024	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building Off Road Diesel	0.22	1.36	1.56	0.00	0.00	0.06	0.06	0.00	0.06	0.06	293.71
Building Vendor Trips	0.10	0.77	1.09	0.01	0.02	0.03	0.06	0.01	0.03	0.04	682.11
Building Worker Trips	0.17	0.32	7.34	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,390.62
2024	6.21	0.95	3.91	0.01	0.05	0.06	0.12	0.02	0.06	0.08	1,314.64
Building 01/23/2017-05/17/2024	0.19	0.94	3.84	0.01	0.05	0.06	0.11	0.02	0.06	0.07	1,294.78
Building Off Road Diesel	0.09	0.52	0.60	0.00	0.00	0.02	0.02	0.00	0.02	0.02	112.96
Building Vendor Trips	0.04	0.29	0.42	0.00	0.01	0.01	0.02	0.00	0.01	0.01	262.35
Building Worker Trips	0.06	0.12	2.82	0.01	0.04	0.03	0.07	0.01	0.02	0.04	919.47
Coating 05/20/2024-05/23/2025	6.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.86
Architectural Coating	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.86
2025	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
Coating 05/20/2024-05/23/2025	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
Architectural Coating	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 208.5

Maximum Daily Acreage Disturbed: 52.12

Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description
Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

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

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description
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 Annual Construction Mitigated Emissions (Tons/Year)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Annual Tons Per Year, Mitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
2012	1.28	10.74	5.70	0.00	12.13	0.50	12.63	2.53	0.46	3.00	1,170.01
Demolition 01/03/2012-01/13/2012	0.02	0.19	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	19.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	0.02	0.19	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	18.60
Demo On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
Mass Grading 01/16/2012-12/12/2014	1.26	10.55	5.59	0.00	12.13	0.49	12.62	2.53	0.46	2.99	1,150.68
Mass Grading Dust	0.00	0.00	0.00	0.00	12.13	0.00	12.13	2.53	0.00	2.53	0.00
Mass Grading Off Road Diesel	1.25	10.53	5.28	0.00	0.00	0.49	0.49	0.00	0.45	0.45	1,109.78
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.90
2013	1.25	10.27	5.53	0.00	12.61	0.48	13.09	2.63	0.44	3.07	1,196.53
Mass Grading 01/16/2012-12/12/2014	1.25	10.27	5.53	0.00	12.61	0.48	13.09	2.63	0.44	3.07	1,196.53
Mass Grading Dust	0.00	0.00	0.00	0.00	12.61	0.00	12.61	2.63	0.00	2.63	0.00
Mass Grading Off Road Diesel	1.24	10.26	5.23	0.00	0.00	0.47	0.47	0.00	0.44	0.44	1,153.99
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.53

2014	1.18	9.53	5.30	0.00	12.61	0.43	13.04	2.63	0.40	3.03	1,196.53
Mass Grading 01/16/2012-12/12/2014	1.12	9.05	5.04	0.00	11.98	0.41	12.39	2.50	0.38	2.88	1,136.93
Mass Grading Dust	0.00	0.00	0.00	0.00	11.98	0.00	11.98	2.50	0.00	2.50	0.00
Mass Grading Off Road Diesel	1.12	9.04	4.77	0.00	0.00	0.41	0.41	0.00	0.38	0.38	1,096.52
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Fine Grading 12/15/2014-03/18/2016	0.06	0.47	0.26	0.00	0.63	0.02	0.65	0.13	0.02	0.15	59.60
Fine Grading Dust	0.00	0.00	0.00	0.00	0.63	0.00	0.63	0.13	0.00	0.13	0.00
Fine Grading Off Road Diesel	0.06	0.47	0.25	0.00	0.00	0.02	0.02	0.00	0.02	0.02	57.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12
2015	1.11	8.75	5.08	0.00	12.61	0.40	13.01	2.63	0.36	3.00	1,196.53
Fine Grading 12/15/2014-03/18/2016	1.11	8.75	5.08	0.00	12.61	0.40	13.01	2.63	0.36	3.00	1,196.53
Fine Grading Dust	0.00	0.00	0.00	0.00	12.61	0.00	12.61	2.63	0.00	2.63	0.00
Fine Grading Off Road Diesel	1.10	8.74	4.82	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,153.99
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.01	0.01	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.53

2016	0.48	3.06	2.08	0.00	2.71	0.16	2.87	0.57	0.15	0.71	467.58
Fine Grading 12/15/2014-03/18/2016	0.22	1.72	1.05	0.00	2.71	0.08	2.78	0.57	0.07	0.64	256.73
Fine Grading Dust	0.00	0.00	0.00	0.00	2.71	0.00	2.71	0.57	0.00	0.57	0.00
Fine Grading Off Road Diesel	0.22	1.72	1.00	0.00	0.00	0.08	0.08	0.00	0.07	0.07	247.60
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.13
Trenching 03/21/2016-08/19/2016	0.08	0.57	0.47	0.00	0.00	0.03	0.03	0.00	0.02	0.02	101.48
Trenching Off Road Diesel	0.08	0.57	0.43	0.00	0.00	0.03	0.03	0.00	0.02	0.02	94.31
Trenching Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17
Asphalt 08/22/2016-01/20/2017	0.18	0.77	0.56	0.00	0.00	0.06	0.06	0.00	0.05	0.05	109.38
Paving Off-Gas	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.11	0.65	0.47	0.00	0.00	0.05	0.05	0.00	0.05	0.05	67.39
Paving On Road Diesel	0.01	0.12	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	34.24
Paving Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.74
2017	0.77	3.76	15.08	0.03	0.12	0.23	0.35	0.04	0.20	0.25	3,188.73
Asphalt 08/22/2016-01/20/2017	0.03	0.11	0.09	0.00	0.00	0.01	0.01	0.00	0.01	0.01	17.27
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.02	0.10	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	10.64
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.41
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22
Building 01/23/2017-05/17/2024	0.74	3.64	14.99	0.03	0.12	0.22	0.34	0.04	0.19	0.24	3,171.46
Building Off Road Diesel	0.28	1.67	1.52	0.00	0.00	0.09	0.09	0.00	0.09	0.09	276.76
Building Vendor Trips	0.16	1.41	1.61	0.01	0.02	0.06	0.08	0.01	0.05	0.06	642.46
Building Worker Trips	0.31	0.57	11.86	0.02	0.10	0.06	0.17	0.04	0.05	0.09	2,252.24

2018	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
Building 01/23/2017-05/17/2024	0.72	3.53	14.98	0.03	0.13	0.21	0.34	0.05	0.19	0.24	3,378.64
Building Off Road Diesel	0.27	1.63	1.60	0.00	0.00	0.09	0.09	0.00	0.08	0.08	294.84
Building Vendor Trips	0.15	1.34	1.60	0.01	0.02	0.06	0.08	0.01	0.05	0.06	684.46
Building Worker Trips	0.30	0.56	11.78	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.34
2019	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
Building 01/23/2017-05/17/2024	0.66	3.21	14.07	0.03	0.13	0.19	0.33	0.05	0.17	0.22	3,378.72
Building Off Road Diesel	0.25	1.49	1.58	0.00	0.00	0.07	0.07	0.00	0.07	0.07	294.84
Building Vendor Trips	0.14	1.21	1.50	0.01	0.02	0.05	0.07	0.01	0.05	0.05	684.50
Building Worker Trips	0.28	0.51	10.99	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.39
2020	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
Building 01/23/2017-05/17/2024	0.61	2.96	13.26	0.03	0.13	0.18	0.31	0.05	0.16	0.21	3,391.77
Building Off Road Diesel	0.22	1.38	1.58	0.00	0.00	0.07	0.07	0.00	0.06	0.06	295.97
Building Vendor Trips	0.13	1.11	1.42	0.01	0.02	0.05	0.07	0.01	0.04	0.05	687.17
Building Worker Trips	0.25	0.47	10.27	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,408.64
2021	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39
Building 01/23/2017-05/17/2024	0.49	2.46	10.03	0.03	0.13	0.17	0.30	0.05	0.15	0.20	3,379.39
Building Off Road Diesel	0.22	1.37	1.57	0.00	0.00	0.06	0.06	0.00	0.06	0.06	294.84
Building Vendor Trips	0.10	0.77	1.10	0.01	0.02	0.03	0.06	0.01	0.03	0.04	684.74
Building Worker Trips	0.17	0.33	7.37	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,399.81
2022	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building 01/23/2017-05/17/2024	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building Off Road Diesel	0.22	1.36	1.56	0.00	0.00	0.06	0.06	0.00	0.06	0.06	293.71
Building Vendor Trips	0.10	0.77	1.09	0.01	0.02	0.03	0.06	0.01	0.03	0.04	682.11
Building Worker Trips	0.17	0.32	7.34	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,390.62

2023	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building 01/23/2017-05/17/2024	0.49	2.46	10.00	0.03	0.13	0.17	0.30	0.05	0.15	0.19	3,366.44
Building Off Road Diesel	0.22	1.36	1.56	0.00	0.00	0.06	0.06	0.00	0.06	0.06	293.71
Building Vendor Trips	0.10	0.77	1.09	0.01	0.02	0.03	0.06	0.01	0.03	0.04	682.11
Building Worker Trips	0.17	0.32	7.34	0.02	0.11	0.07	0.18	0.04	0.06	0.10	2,390.62
2024	6.21	0.95	3.91	0.01	0.05	0.06	0.12	0.02	0.06	0.08	1,314.64
Building 01/23/2017-05/17/2024	0.19	0.94	3.84	0.01	0.05	0.06	0.11	0.02	0.06	0.07	1,294.78
Building Off Road Diesel	0.09	0.52	0.60	0.00	0.00	0.02	0.02	0.00	0.02	0.02	112.96
Building Vendor Trips	0.04	0.29	0.42	0.00	0.01	0.01	0.02	0.00	0.01	0.01	262.35
Building Worker Trips	0.06	0.12	2.82	0.01	0.04	0.03	0.07	0.01	0.02	0.04	919.47
Coating 05/20/2024-05/23/2025	6.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.86
Architectural Coating	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.86
2025	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
Coating 05/20/2024-05/23/2025	3.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63
Architectural Coating	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 61% PM25: 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Phase Assumptions

Phase: Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 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

Phase: Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 208.5

Maximum Daily Acreage Disturbed: 52.12

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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

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

Phase: Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 208.5
Maximum Daily Acreage Disturbed: 52.12
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 0
Off-Road Equipment:
1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Graders (174 hp) operating at a 0.61 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 Scrapers (313 hp) operating at a 0.72 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
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description
Off-Road Equipment:
2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 8/22/2016 - 1/20/2017 - Default Paving Description
Acres to be Paved: 52.12
Off-Road Equipment:
1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description
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 Annual Area Source Unmitigated Emissions (Tons/Year)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.22	2.93	1.65	0.00	0.01	0.01	3,667.29
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.65
Landscape	0.61	0.04	3.88	0.00	0.01	0.01	6.12
Consumer Products	8.03						
Architectural Coatings	0.98						
TOTALS (tons/year, unmitigated)	9.84	2.97	5.53	0.00	0.02	0.02	3,677.06

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

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Urbemis 2007 Version 9.2.4

Detail Report for Annual Operational Unmitigated Emissions (Tons/Year)

File Name: L:\DRAFT\3706q\meadowood.urb924

Project Name: Meadowood

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	2.58	2.85	28.82	0.07	11.30	2.20	6,827.16
Apartments low rise	2.99	3.23	32.67	0.08	12.81	2.49	7,738.73
Elementary school	1.06	0.85	8.41	0.02	3.39	0.66	2,035.33
City park	0.04	0.04	0.35	0.00	0.14	0.03	85.72
TOTALS (tons/year, unmitigated)	6.67	6.97	70.25	0.17	27.64	5.38	16,686.94

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	135.20	10.00	dwelling units	355.00	3,550.00	35,864.94
Apartments low rise	50.60	8.00	dwelling units	503.00	4,024.00	40,653.67

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Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Elementary school		2.02	1000 sq ft	553.20	1,117.46	10,761.18
City park		5.00	acres	10.00	50.00	454.12
					8,741.46	87,733.91

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.6	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.8	35.7	64.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9

2/20/2009 10:47:31 AM

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Elementary school				20.0	10.0	70.0
City park				5.0	2.5	92.5

Operational Changes to Defaults

Ambient summer temperature changed from 80 degrees F to 85 degrees F

Ambient winter temperature changed from 60 degrees F to 40 degrees F

03/31/09

08:42:29

```
  ***  SCREEN3 MODEL RUN  ***
  *** VERSION DATED 96043 ***

 Meadowood

 SIMPLE TERRAIN INPUTS:
    SOURCE TYPE                =         AREA
    EMISSION RATE (G/(S-M**2))  =      .511129E-05
    SOURCE HEIGHT (M)          =       2.0000
    LENGTH OF LARGER SIDE (M)   =      10.0000
    LENGTH OF SMALLER SIDE (M)  =      10.0000
    RECEPTOR HEIGHT (M)        =       1.0000
    URBAN/RURAL OPTION         =        URBAN
 THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
 THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

    MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION


 BUOY. FLUX =     .000 M**4/S**3;  MOM. FLUX =     .000 M**4/S**2.

 *** FULL METEOROLOGY ***

 **********************************
 *** SCREEN AUTOMATED DISTANCES ***
 **********************************

 *** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

   DIST     CONC             U10M   USTK  MIX HT   PLUME  MAX DIR
    (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   (DEG)
-------  ----------  ----  -----  -----  ------  ------  -------
     1.   1.460        6     1.0    1.0 10000.0    2.00     45.
   100.   1.871        6     1.0    1.0 10000.0    2.00     45.
   200.   .5358        6     1.0    1.0 10000.0    2.00     12.
   300.   .2589        6     1.0    1.0 10000.0    2.00     24.
   400.   .1563        6     1.0    1.0 10000.0    2.00     13.
   500.   .1066        6     1.0    1.0 10000.0    2.00      1.
   600.   .7849E-01    6     1.0    1.0 10000.0    2.00      7.
   700.   .6088E-01    6     1.0    1.0 10000.0    2.00     17.
   800.   .4905E-01    6     1.0    1.0 10000.0    2.00     17.
   900.   .4066E-01    6     1.0    1.0 10000.0    2.00      7.
  1000.   .3447E-01    6     1.0    1.0 10000.0    2.00      7.

 MAXIMUM 1-HR CONCENTRATION AT OR BEYOND     1. M:
    15.   14.43        6     1.0    1.0 10000.0    2.00     45.

      ************************************
      *** SUMMARY OF SCREEN MODEL RESULTS ***
      ************************************

  CALCULATION        MAX CONC    DIST TO   TERRAIN
```

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
SIMPLE TERRAIN	14.43	15.	0.

****
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
****

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Meadowood - 395 at Pala Mesa
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 0. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= 6.3 PPM
SIGTH= 5. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	600	7	150	7	* AG	401	1.5	.0	28.0
B. Link B	*	150	7	0	7	* AG	401	1.5	.0	28.0
C. Link C	*	0	7	-150	7	* AG	399	1.1	.0	28.0
D. Link D	*	-150	7	-600	7	* AG	399	1.1	.0	28.0
E. Link E	*	7	-600	7	-150	* AG	860	1.8	.0	28.0
F. Link F	*	7	-150	7	0	* AG	860	1.8	.0	28.0
G. Link G	*	7	0	7	150	* AG	971	1.7	.0	28.0
H. Link H	*	7	150	7	600	* AG	971	1.7	.0	28.0
I. Link I	*	-600	-7	-150	-7	* AG	225	1.5	.0	28.0
J. Link J	*	-150	-7	0	-7	* AG	225	1.5	.0	28.0
K. Link K	*	0	-7	150	-7	* AG	475	1.1	.0	28.0
L. Link L	*	150	-7	600	-7	* AG	475	1.1	.0	28.0
M. Link M	*	-7	600	-7	150	* AG	479	1.5	.0	28.0
N. Link N	*	-7	150	-7	0	* AG	479	1.5	.0	28.0
O. Link O	*	-7	0	-7	-150	* AG	650	1.2	.0	28.0
P. Link P	*	-7	-150	-7	-600	* AG	650	1.2	.0	28.0
Q. Link Q	*	150	6	0	0	* AG	154	1.8	.0	28.0
R. Link R	*	-150	-6	0	0	* AG	33	1.8	.0	28.0
S. Link S	*	-6	150	0	0	* AG	189	1.8	.0	28.0
T. Link T	*	6	-150	0	0	* AG	154	1.8	.0	28.0

JOB: Meadowood - 395 at Pala Mesa
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	450	14	1.8
2. Recpt 2	150	14	1.8
3. Recpt 3	50	14	1.8
4. Recpt 4	-50	14	1.8
5. Recpt 5	-150	14	1.8
6. Recpt 6	-450	14	1.8
7. Recpt 7	450	-14	1.8
8. Recpt 8	150	-14	1.8
9. Recpt 9	50	-14	1.8
10. Recpt 10	-50	-14	1.8
11. Recpt 11	-150	-14	1.8
12. Recpt 12	-450	-14	1.8
13. Recpt 13	-14	450	1.8
14. Recpt 14	-14	150	1.8
15. Recpt 15	-14	50	1.8
16. Recpt 16	-14	-50	1.8
17. Recpt 17	-14	-150	1.8
18. Recpt 18	-14	-450	1.8
19. Recpt 19	14	50	1.8
20. Recpt 20	14	-50	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Meadowood - 395 at Pala Mesa
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	268.	6.5	.1	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	267.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	267.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	93.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	93.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	92.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	273.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	274.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	351.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	86.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	87.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	87.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	177.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	176.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	176.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	4.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	4.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	3.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	183.	6.7	.0	.0	.0	.0	.0	.1	.0	.0
20. Recpt 20	357.	6.7	.0	.0	.0	.0	.0	.0	.1	.0

JOB: Meadowood - 395 at Pala Mesa
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Meadowood - SR-76 at I-15 Northbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	6.3 PPM		
SIGTH=	5. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	600	7	150	7	* AG	1837	1.8	.0	28.0
B. Link B	*	150	7	0	7	* AG	1837	1.8	.0	28.0
C. Link C	*	0	7	-150	7	* AG	2200	1.8	.0	28.0
D. Link D	*	-150	7	-600	7	* AG	2200	1.8	.0	28.0
E. Link E	*	7	-600	7	-150	* AG	1107	1.8	.0	28.0
F. Link F	*	7	-150	7	0	* AG	1107	1.8	.0	28.0
G. Link G	*	7	0	7	150	* AG	1101	1.8	.0	28.0
H. Link H	*	7	150	7	600	* AG	1101	1.8	.0	28.0
I. Link I	*	-600	-7	-150	-7	* AG	840	1.8	.0	28.0
J. Link J	*	-150	-7	0	-7	* AG	840	1.8	.0	28.0
K. Link K	*	0	-7	150	-7	* AG	1946	1.8	.0	28.0
L. Link L	*	150	-7	600	-7	* AG	1946	1.8	.0	28.0
M. Link M	*	-7	600	-7	150	* AG	0	.0	.0	28.0
N. Link N	*	-7	150	-7	0	* AG	0	.0	.0	28.0
O. Link O	*	-7	0	-7	-150	* AG	0	.0	.0	28.0
P. Link P	*	-7	-150	-7	-600	* AG	0	.0	.0	28.0
Q. Link Q	*	150	6	0	0	* AG	0	1.8	.0	28.0
R. Link R	*	-150	-6	0	0	* AG	712	1.8	.0	28.0
S. Link S	*	-6	150	0	0	* AG	0	1.8	.0	28.0
T. Link T	*	6	-150	0	0	* AG	751	1.8	.0	28.0

JOB: Meadowood - SR-76 at I-15 Northbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	450	14	1.8
2. Recpt 2	150	14	1.8
3. Recpt 3	50	14	1.8
4. Recpt 4	-50	14	1.8
5. Recpt 5	-150	14	1.8
6. Recpt 6	-450	14	1.8
7. Recpt 7	450	-14	1.8
8. Recpt 8	150	-14	1.8
9. Recpt 9	50	-14	1.8
10. Recpt 10	-50	-14	1.8
11. Recpt 11	-150	-14	1.8
12. Recpt 12	-450	-14	1.8
13. Recpt 13	-14	450	1.8
14. Recpt 14	-14	150	1.8
15. Recpt 15	-14	50	1.8
16. Recpt 16	-14	-50	1.8
17. Recpt 17	-14	-150	1.8
18. Recpt 18	-14	-450	1.8
19. Recpt 19	14	50	1.8
20. Recpt 20	14	-50	1.8

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Meadowood - SR-76 at I-15 Northbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	267.	7.2	.5	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	267.	7.1	.0	.4	.1	.0	.0	.0	.0	.0
3. Recpt 3	267.	7.1	.0	.2	.2	.2	.0	.0	.0	.0
4. Recpt 4	94.	7.2	.1	.2	.2	.0	.0	.0	.0	.0
5. Recpt 5	93.	7.2	.0	.1	.4	.0	.0	.0	.0	.0
6. Recpt 6	92.	7.2	.0	.0	.0	.6	.0	.0	.0	.0
7. Recpt 7	273.	7.2	.1	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	274.	7.2	.0	.0	.1	.1	.0	.0	.0	.0
9. Recpt 9	274.	7.2	.0	.0	.1	.2	.0	.0	.0	.0
10. Recpt 10	86.	7.1	.2	.1	.0	.0	.0	.0	.0	.0
11. Recpt 11	87.	7.1	.1	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	87.	7.0	.0	.0	.0	.2	.0	.0	.0	.0
13. Recpt 13	176.	6.6	.0	.0	.0	.0	.0	.0	.0	.1
14. Recpt 14	175.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	174.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	80.	6.7	.1	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	6.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	4.	6.6	.0	.0	.0	.0	.1	.0	.0	.0
19. Recpt 19	182.	6.9	.0	.0	.0	.0	.1	.1	.1	.0
20. Recpt 20	358.	6.9	.0	.0	.0	.0	.0	.1	.1	.1

JOB: Meadowood - SR-76 at I-15 Northbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Recpt 1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.2	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
12. Recpt 12	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Meadowood - SR-76 at I-15 Southbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	6.3 PPM		
SIGTH=	5. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	600	7	150	7	* AG	1298	1.8	.0	28.0
B. Link B	*	150	7	0	7	* AG	1298	1.8	.0	28.0
C. Link C	*	0	7	-150	7	* AG	1841	1.8	.0	28.0
D. Link D	*	-150	7	-600	7	* AG	1841	1.8	.0	28.0
E. Link E	*	7	-600	7	-150	* AG	0	.0	.0	28.0
F. Link F	*	7	-150	7	0	* AG	0	.0	.0	28.0
G. Link G	*	7	0	7	150	* AG	0	.0	.0	28.0
H. Link H	*	7	150	7	600	* AG	0	.0	.0	28.0
I. Link I	*	-600	-7	-150	-7	* AG	1741	1.8	.0	28.0
J. Link J	*	-150	-7	0	-7	* AG	1741	1.8	.0	28.0
K. Link K	*	0	-7	150	-7	* AG	1605	1.7	.0	28.0
L. Link L	*	150	-7	600	-7	* AG	1605	1.7	.0	28.0
M. Link M	*	-7	600	-7	150	* AG	544	1.5	.0	28.0
N. Link N	*	-7	150	-7	0	* AG	544	1.5	.0	28.0
O. Link O	*	-7	0	-7	-150	* AG	1373	1.7	.0	28.0
P. Link P	*	-7	-150	-7	-600	* AG	1373	1.7	.0	28.0
Q. Link Q	*	150	6	0	0	* AG	884	1.8	.0	28.0
R. Link R	*	-150	-6	0	0	* AG	0	1.8	.0	28.0
S. Link S	*	-6	150	0	0	* AG	352	1.8	.0	28.0
T. Link T	*	6	-150	0	0	* AG	0	1.8	.0	28.0

JOB: Meadowood - SR-76 at I-15 Southbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	450	14	1.8
2. Recpt 2	150	14	1.8
3. Recpt 3	50	14	1.8
4. Recpt 4	-50	14	1.8
5. Recpt 5	-150	14	1.8
6. Recpt 6	-450	14	1.8
7. Recpt 7	450	-14	1.8
8. Recpt 8	150	-14	1.8
9. Recpt 9	50	-14	1.8
10. Recpt 10	-50	-14	1.8
11. Recpt 11	-150	-14	1.8
12. Recpt 12	-450	-14	1.8
13. Recpt 13	-14	450	1.8
14. Recpt 14	-14	150	1.8
15. Recpt 15	-14	50	1.8
16. Recpt 16	-14	-50	1.8
17. Recpt 17	-14	-150	1.8
18. Recpt 18	-14	-450	1.8
19. Recpt 19	14	50	1.8
20. Recpt 20	14	-50	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Meadowood - SR-76 at I-15 Southbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	267.	7.0	.3	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	267.	7.2	.0	.3	.1	.0	.0	.0	.0	.0
3. Recpt 3	266.	7.1	.0	.1	.2	.1	.0	.0	.0	.0
4. Recpt 4	94.	7.1	.0	.2	.2	.0	.0	.0	.0	.0
5. Recpt 5	93.	7.1	.0	.0	.4	.0	.0	.0	.0	.0
6. Recpt 6	93.	7.2	.0	.0	.0	.5	.0	.0	.0	.0
7. Recpt 7	273.	7.1	.1	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	274.	7.1	.0	.0	.1	.1	.0	.0	.0	.0
9. Recpt 9	274.	7.1	.0	.0	.1	.2	.0	.0	.0	.0
10. Recpt 10	86.	7.1	.1	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	86.	7.1	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	87.	7.1	.0	.0	.0	.1	.0	.0	.0	.0
13. Recpt 13	179.	6.6	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	179.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	178.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	2.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	2.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	1.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	186.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	280.	6.7	.0	.0	.0	.1	.0	.0	.0	.0

JOB: Meadowood - SR-76 at I-15 Southbound
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Recpt 1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
3. Recpt 3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
20. Recpt 20	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Meadowood - SR-76 at Pankey
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	6.3 PPM		
SIGTH=	5. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	600	7	150	7	* AG	1255	1.8	.0	28.0
B. Link B	*	150	7	0	7	* AG	1255	1.8	.0	28.0
C. Link C	*	0	7	-150	7	* AG	1685	1.8	.0	28.0
D. Link D	*	-150	7	-600	7	* AG	1685	1.8	.0	28.0
E. Link E	*	7	-600	7	-150	* AG	621	1.5	.0	28.0
F. Link F	*	7	-150	7	0	* AG	621	1.5	.0	28.0
G. Link G	*	7	0	7	150	* AG	618	1.1	.0	28.0
H. Link H	*	7	150	7	600	* AG	618	1.1	.0	28.0
I. Link I	*	-600	-7	-150	-7	* AG	1781	1.8	.0	28.0
J. Link J	*	-150	-7	0	-7	* AG	1781	1.8	.0	28.0
K. Link K	*	0	-7	150	-7	* AG	1792	1.8	.0	28.0
L. Link L	*	150	-7	600	-7	* AG	1792	1.8	.0	28.0
M. Link M	*	-7	600	-7	150	* AG	648	1.5	.0	28.0
N. Link N	*	-7	150	-7	0	* AG	648	1.5	.0	28.0
O. Link O	*	-7	0	-7	-150	* AG	987	1.7	.0	28.0
P. Link P	*	-7	-150	-7	-600	* AG	987	1.7	.0	28.0
Q. Link Q	*	150	6	0	0	* AG	209	1.8	.0	28.0
R. Link R	*	-150	-6	0	0	* AG	147	1.8	.0	28.0
S. Link S	*	-6	150	0	0	* AG	106	1.8	.0	28.0
T. Link T	*	6	-150	0	0	* AG	315	1.8	.0	28.0

JOB: Meadowood - SR-76 at Pankey
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	450	14	1.8
2. Recpt 2	150	14	1.8
3. Recpt 3	50	14	1.8
4. Recpt 4	-50	14	1.8
5. Recpt 5	-150	14	1.8
6. Recpt 6	-450	14	1.8
7. Recpt 7	450	-14	1.8
8. Recpt 8	150	-14	1.8
9. Recpt 9	50	-14	1.8
10. Recpt 10	-50	-14	1.8
11. Recpt 11	-150	-14	1.8
12. Recpt 12	-450	-14	1.8
13. Recpt 13	-14	450	1.8
14. Recpt 14	-14	150	1.8
15. Recpt 15	-14	50	1.8
16. Recpt 16	-14	-50	1.8
17. Recpt 17	-14	-150	1.8
18. Recpt 18	-14	-450	1.8
19. Recpt 19	14	50	1.8
20. Recpt 20	14	-50	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: Meadowood - SR-76 at Pankey
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	267.	7.0	.3	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	266.	7.1	.0	.2	.0	.0	.0	.0	.0	.0
3. Recpt 3	266.	7.1	.0	.1	.2	.1	.0	.0	.0	.0
4. Recpt 4	94.	7.1	.0	.1	.2	.0	.0	.0	.0	.0
5. Recpt 5	94.	7.1	.0	.0	.3	.0	.0	.0	.0	.0
6. Recpt 6	93.	7.1	.0	.0	.0	.4	.0	.0	.0	.0
7. Recpt 7	272.	7.1	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	273.	7.1	.0	.0	.0	.1	.0	.0	.0	.0
9. Recpt 9	274.	7.2	.0	.0	.0	.1	.0	.0	.0	.0
10. Recpt 10	87.	7.1	.1	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	87.	7.1	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	87.	7.1	.0	.0	.0	.1	.0	.0	.0	.0
13. Recpt 13	178.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	177.	6.7	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	177.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	3.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	3.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	2.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	184.	6.8	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	280.	6.7	.0	.0	.0	.1	.0	.0	.0	.0

JOB: Meadowood - SR-76 at Pankey
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Recpt 1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0