

# Alameda County

## PM2.5 Concentrations and Cancer Risks

### Generated from Surface Streets

#### How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

### PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.159	0.135	0.095	0.045	0.015	0.014	0.014
20,000	0.199	0.191	0.175	0.111	0.043	0.029	0.016
30,000	0.278	0.270	0.238	0.167	0.062	0.045	0.027
40,000	0.342	0.334	0.302	0.215	0.087	0.058	0.041
50,000	0.485	0.477	0.421	0.278	0.103	0.072	0.049
60,000	0.640	0.624	0.529	0.346	0.123	0.087	0.060
70,000	0.795	0.771	0.636	0.413	0.143	0.103	0.070
80,000	0.908	0.881	0.727	0.472	0.164	0.118	0.080
90,000	1.022	0.991	0.818	0.531	0.184	0.133	0.090
100,000	1.136	1.101	0.908	0.590	0.204	0.148	0.100

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.111	0.095	0.072	0.050	0.024	0.020	0.014
20,000	0.223	0.191	0.143	0.095	0.039	0.030	0.025
30,000	0.254	0.246	0.223	0.135	0.053	0.035	0.027
40,000	0.334	0.318	0.254	0.191	0.070	0.053	0.033
50,000	0.636	0.572	0.461	0.223	0.095	0.066	0.048
60,000	0.680	0.604	0.469	0.262	0.115	0.081	0.056
70,000	0.723	0.636	0.477	0.302	0.135	0.095	0.065
80,000	0.827	0.727	0.545	0.345	0.154	0.109	0.074
90,000	0.930	0.818	0.613	0.388	0.174	0.123	0.084
100,000	1.033	0.908	0.681	0.431	0.193	0.136	0.093

### LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	4.60	3.83	2.87	1.26	0.61	0.49	0.38
20,000	5.01	4.63	4.06	2.77	1.15	0.88	0.61
30,000	6.56	6.33	5.79	3.86	1.50	1.12	0.77
40,000	8.11	8.06	7.33	5.39	2.08	1.54	1.08
50,000	11.58	11.42	8.93	6.93	2.62	1.92	1.38
60,000	15.25	14.97	11.99	8.30	3.14	2.29	1.63
70,000	18.91	18.52	15.06	9.66	3.66	2.65	1.88
80,000	21.62	21.17	17.21	11.04	4.18	3.03	2.15
90,000	24.32	23.81	19.36	12.42	4.70	3.41	2.42
100,000	27.02	26.46	21.51	13.80	5.22	3.79	2.69

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.70	2.39	1.92	1.46	0.84	0.65	0.53
20,000	5.47	4.63	3.47	2.65	1.33	1.07	0.80
30,000	6.17	5.79	5.40	3.46	1.53	1.11	0.88
40,000	8.10	8.01	6.17	4.63	2.03	1.53	1.11
50,000	15.06	12.78	10.45	5.40	2.68	2.03	1.42
60,000	15.75	13.92	11.38	6.55	3.20	2.39	1.68
70,000	16.44	15.06	12.31	7.70	3.72	2.76	1.95
80,000	18.79	17.21	14.07	8.80	4.25	3.15	2.23
90,000	21.14	19.36	15.83	9.90	4.79	3.55	2.51
100,000	23.49	21.51	17.59	11.00	5.32	3.94	2.79

- Screening tables based on meteorological data collected from Pleasanton in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.03.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.

# Contra Costa County PM2.5 Concentrations and Cancer Risks Generated from Surface Streets

**How to use the screening tables:**

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

## PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000							
10,000	0.087	0.078	0.070	0.017	0.003	0.000	0.000
20,000	0.096	0.087	0.077	0.050	0.016	0.010	0.001
30,000	0.130	0.122	0.104	0.070	0.021	0.015	0.010
40,000	0.165	0.156	0.139	0.096	0.031	0.019	0.014
50,000	0.235	0.226	0.191	0.130	0.032	0.020	0.016
60,000	0.317	0.309	0.252	0.156	0.042	0.027	0.019
70,000	0.400	0.391	0.313	0.183	0.052	0.035	0.022
80,000	0.457	0.447	0.358	0.209	0.060	0.040	0.025
90,000	0.514	0.503	0.402	0.235	0.067	0.045	0.028
100,000	0.571	0.559	0.447	0.261	0.075	0.050	0.031

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000							
10,000	0.061	0.052	0.042	0.017	0.011	0.003	0.000
20,000	0.096	0.078	0.069	0.020	0.019	0.016	0.015
30,000	0.130	0.113	0.096	0.070	0.030	0.020	0.017
40,000	0.217	0.200	0.156	0.096	0.043	0.033	0.017
50,000	0.391	0.339	0.261	0.113	0.050	0.038	0.026
60,000	0.413	0.352	0.287	0.135	0.060	0.045	0.033
70,000	0.435	0.365	0.313	0.156	0.071	0.052	0.040
80,000	0.497	0.417	0.358	0.179	0.081	0.060	0.046
90,000	0.559	0.469	0.402	0.201	0.092	0.067	0.051
100,000	0.621	0.522	0.447	0.224	0.102	0.075	0.057

## LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000							
10,000	2.36	2.30	1.94	0.57	0.27	0.20	0.16
20,000	2.42	2.36	2.04	1.36	0.46	0.32	0.22
30,000	3.41	3.35	2.98	2.04	0.63	0.40	0.26
40,000	4.25	4.19	3.72	2.62	0.79	0.60	0.37
50,000	6.29	6.03	5.24	3.41	1.04	0.68	0.46
60,000	8.39	8.00	6.56	4.19	1.25	0.81	0.53
70,000	10.49	9.98	7.88	4.98	1.47	0.94	0.60
80,000	11.45	11.40	9.01	5.69	1.68	1.08	0.69
90,000	13.49	12.83	10.13	6.40	1.88	1.21	0.77
100,000	14.99	14.25	11.26	7.11	2.09	1.35	0.86

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000							
10,000	1.73	1.57	1.25	0.62	0.41	0.35	0.31
20,000	2.62	2.35	1.84	1.34	0.73	0.55	0.46
30,000	3.21	3.14	2.67	1.58	0.84	0.63	0.50
40,000	5.62	5.25	4.19	2.52	1.15	0.89	0.68
50,000	9.47	8.41	6.31	3.04	1.46	1.20	0.83
60,000	10.27	9.18	7.10	3.82	1.73	1.36	1.02
70,000	11.08	9.96	7.88	4.60	1.99	1.52	1.20
80,000	12.66	11.38	9.01	5.26	2.27	1.73	1.37
90,000	14.25	12.80	10.13	5.92	2.56	1.95	1.55
100,000	15.83	14.22	11.26	6.57	2.84	2.17	1.72

- Screening tables based on meteorological data collected from Chevron Refinery in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.

# Marin County PM2.5 Concentrations and Cancer Risks Generated from Surface Streets

**How to use the screening tables:**

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

## PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.095	0.086	0.057	0.017	0.004	0.000	0.000
20,000	0.124	0.114	0.095	0.065	0.016	0.011	0.001
30,000	0.171	0.162	0.143	0.095	0.032	0.028	0.015
40,000	0.210	0.200	0.181	0.114	0.041	0.032	0.019
50,000	0.305	0.295	0.257	0.171	0.056	0.034	0.020
60,000	0.405	0.395	0.319	0.205	0.067	0.043	0.026
70,000	0.505	0.495	0.381	0.238	0.077	0.051	0.031
80,000	0.577	0.566	0.435	0.272	0.088	0.059	0.036
90,000	0.649	0.637	0.490	0.306	0.099	0.066	0.040
100,000	0.721	0.708	0.544	0.340	0.110	0.073	0.045

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.095	0.083	0.063	0.020	0.005	0.000	0.000
20,000	0.162	0.143	0.095	0.035	0.014	0.010	0.002
30,000	0.171	0.162	0.143	0.086	0.032	0.022	0.016
40,000	0.314	0.286	0.229	0.105	0.048	0.031	0.023
50,000	0.572	0.476	0.381	0.124	0.062	0.041	0.030
60,000	0.605	0.524	0.429	0.171	0.070	0.049	0.037
70,000	0.638	0.572	0.476	0.219	0.079	0.056	0.044
80,000	0.729	0.653	0.544	0.250	0.090	0.064	0.050
90,000	0.821	0.735	0.612	0.282	0.102	0.072	0.056
100,000	0.912	0.817	0.680	0.313	0.113	0.080	0.063

## LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.31	2.19	1.53	0.64	0.28	0.23	0.15
20,000	2.74	2.67	2.31	1.60	0.53	0.39	0.26
30,000	3.87	3.80	3.38	2.26	0.71	0.55	0.36
40,000	4.82	4.75	4.22	2.96	1.01	0.77	0.50
50,000	7.13	6.84	5.89	3.87	1.31	0.94	0.64
60,000	9.50	9.18	7.46	4.73	1.60	1.12	0.76
70,000	11.88	11.53	9.02	5.58	1.90	1.30	0.88
80,000	13.57	13.17	10.31	6.38	2.17	1.49	1.01
90,000	15.27	14.82	11.60	7.18	2.44	1.67	1.14
100,000	16.97	16.47	12.89	7.98	2.71	1.86	1.26

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.09	1.85	1.43	0.64	0.36	0.28	0.23
20,000	3.29	2.99	2.14	1.06	0.58	0.48	0.32
30,000	3.87	3.80	3.38	2.25	0.77	0.54	0.36
40,000	6.97	6.26	5.23	2.49	1.18	0.88	0.65
50,000	11.95	9.58	8.35	3.53	1.48	1.12	0.77
60,000	12.95	11.19	9.39	4.46	1.75	1.33	0.89
70,000	13.95	12.80	10.43	5.39	2.01	1.53	1.01
80,000	15.94	14.63	11.92	6.16	2.30	1.75	1.15
90,000	17.94	16.46	13.41	6.93	2.59	1.97	1.30
100,000	19.93	18.29	14.90	7.70	2.87	2.19	1.44

- Screening tables based on meteorological data collected from Mt. Tamalpais in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.

# Napa County

## PM2.5 Concentrations and Cancer Risks

### Generated from Surface Streets

**How to use the screening tables:**

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

### PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.157	0.148	0.129	0.032	0.012	0.004	0.000
20,000	0.166	0.157	0.139	0.083	0.021	0.016	0.010
30,000	0.240	0.231	0.212	0.139	0.037	0.022	0.011
40,000	0.296	0.286	0.259	0.166	0.055	0.036	0.020
50,000	0.425	0.416	0.351	0.212	0.065	0.043	0.030
60,000	0.573	0.564	0.453	0.273	0.077	0.052	0.032
70,000	0.721	0.711	0.554	0.333	0.090	0.060	0.035
80,000	0.823	0.813	0.633	0.380	0.102	0.069	0.040
90,000	0.926	0.915	0.713	0.428	0.115	0.077	0.045
100,000	1.029	1.016	0.792	0.475	0.128	0.086	0.050

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.074	0.065	0.060	0.044	0.018	0.017	0.015
20,000	0.157	0.139	0.111	0.092	0.046	0.028	0.022
30,000	0.231	0.222	0.203	0.120	0.056	0.041	0.031
40,000	0.249	0.240	0.231	0.176	0.081	0.063	0.044
50,000	0.462	0.379	0.305	0.194	0.102	0.073	0.056
60,000	0.480	0.416	0.337	0.240	0.120	0.092	0.067
70,000	0.499	0.453	0.370	0.286	0.139	0.111	0.077
80,000	0.570	0.517	0.422	0.327	0.158	0.127	0.088
90,000	0.641	0.582	0.475	0.368	0.178	0.143	0.099
100,000	0.713	0.647	0.528	0.409	0.198	0.158	0.110

### LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	3.83	3.71	3.19	0.95	0.47	0.35	0.27
20,000	4.14	4.03	3.45	2.27	0.78	0.62	0.42
30,000	5.75	5.63	5.01	3.40	1.05	0.83	0.47
40,000	7.18	7.07	5.87	4.19	1.48	1.00	0.55
50,000	10.62	10.10	8.00	5.01	1.74	1.26	0.84
60,000	14.08	13.56	10.40	6.75	2.14	1.50	1.02
70,000	17.54	17.03	12.80	8.48	2.53	1.74	1.20
80,000	20.05	19.46	14.62	9.70	2.89	1.99	1.38
90,000	22.55	21.89	16.45	10.91	3.26	2.24	1.55
100,000	25.06	24.32	18.28	12.12	3.62	2.48	1.72

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.26	2.00	1.64	1.32	0.78	0.68	0.53
20,000	4.53	3.90	3.16	2.49	1.37	1.09	0.88
30,000	5.43	5.37	4.84	3.18	1.53	1.16	0.95
40,000	6.97	6.10	5.58	4.25	2.07	1.59	1.22
50,000	12.13	10.31	7.95	5.08	2.60	2.01	1.48
60,000	12.85	11.24	9.25	5.37	3.02	2.31	1.72
70,000	13.58	12.16	10.55	5.65	3.45	2.61	1.96
80,000	15.52	13.90	12.05	6.46	3.94	2.98	2.24
90,000	17.46	15.64	13.56	7.27	4.44	3.36	2.52
100,000	19.40	17.38	15.07	8.08	4.93	3.73	2.80

- Screening tables based on meteorological data collected from Napa Sewage Treatment Plant in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.

# San Francisco County PM2.5 Concentrations and Cancer Risks Generated from Surface Streets

### How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

## PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.080	0.063	0.044	0.016	0.012	0.000	0.000
20,000	0.111	0.101	0.092	0.061	0.021	0.016	0.012
30,000	0.157	0.147	0.129	0.092	0.032	0.022	0.017
40,000	0.203	0.193	0.175	0.120	0.051	0.037	0.024
50,000	0.276	0.267	0.239	0.166	0.064	0.050	0.029
60,000	0.368	0.359	0.304	0.198	0.076	0.057	0.039
70,000	0.460	0.451	0.368	0.230	0.087	0.064	0.050
80,000	0.526	0.516	0.421	0.263	0.099	0.074	0.057
90,000	0.592	0.580	0.474	0.296	0.111	0.083	0.064
100,000	0.658	0.645	0.526	0.329	0.124	0.092	0.071

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.078	0.068	0.052	0.017	0.011	0.009	0.000
20,000	0.156	0.147	0.112	0.035	0.020	0.015	0.010
30,000	0.147	0.138	0.130	0.078	0.022	0.016	0.011
40,000	0.242	0.259	0.173	0.095	0.032	0.021	0.016
50,000	0.519	0.432	0.346	0.112	0.043	0.029	0.017
60,000	0.532	0.441	0.367	0.143	0.052	0.032	0.019
70,000	0.544	0.449	0.389	0.173	0.060	0.035	0.022
80,000	0.622	0.514	0.444	0.198	0.069	0.040	0.025
90,000	0.700	0.578	0.500	0.222	0.078	0.044	0.028
100,000	0.778	0.642	0.556	0.247	0.086	0.049	0.031

## LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.21	2.10	1.49	0.65	0.36	0.27	0.22
20,000	2.58	2.49	2.22	1.55	0.62	0.51	0.38
30,000	3.65	3.56	3.28	2.31	0.97	0.75	0.55
40,000	4.56	4.46	4.27	3.10	1.33	1.06	0.79
50,000	6.59	6.49	5.78	4.00	1.68	1.33	0.96
60,000	8.64	8.55	7.34	4.76	1.95	1.55	1.15
70,000	10.70	10.60	8.90	5.52	2.22	1.77	1.33
80,000	12.23	12.12	10.17	6.31	2.53	2.02	1.52
90,000	13.76	13.63	11.44	7.10	2.85	2.27	1.71
100,000	15.28	15.15	12.71	7.88	3.17	2.53	1.90

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	1.37	1.10	0.83	0.44	0.20	0.16	0.11
20,000	4.51	3.91	2.93	1.48	0.61	0.42	0.28
30,000	4.08	3.98	3.55	2.21	0.75	0.53	0.34
40,000	6.82	6.67	4.79	2.83	1.06	0.70	0.46
50,000	13.35	11.12	8.90	3.36	1.32	0.93	0.61
60,000	13.74	11.77	9.77	4.33	1.63	1.03	0.65
70,000	14.14	12.41	10.64	5.29	1.94	1.14	0.70
80,000	16.16	14.19	12.16	6.05	2.21	1.31	0.80
90,000	18.18	15.96	13.69	6.81	2.49	1.47	0.91
100,000	20.20	17.73	15.21	7.56	2.77	1.63	1.01

- Screening tables based on meteorological data collected from San Francisco Sewage Treatment Plant in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM<sub>2.5</sub> concentrations were based on emissions in 2014.

# San Mateo County

## PM<sub>2.5</sub> Concentrations and Cancer Risks

### Generated from Surface Streets

#### How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

### PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.117	0.098	0.068	0.029	0.014	0.012	0.000
20,000	0.147	0.137	0.117	0.078	0.022	0.018	0.014
30,000	0.215	0.205	0.186	0.127	0.047	0.027	0.018
40,000	0.264	0.254	0.245	0.166	0.059	0.047	0.031
50,000	0.372	0.362	0.323	0.215	0.078	0.056	0.040
60,000	0.499	0.489	0.411	0.269	0.098	0.069	0.047
70,000	0.626	0.616	0.499	0.323	0.117	0.083	0.055
80,000	0.716	0.704	0.570	0.369	0.134	0.095	0.063
90,000	0.805	0.792	0.641	0.415	0.151	0.107	0.070
100,000	0.894	0.880	0.713	0.461	0.168	0.119	0.078

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.098	0.088	0.064	0.020	0.014	0.012	0.000
20,000	0.186	0.166	0.117	0.059	0.022	0.018	0.010
30,000	0.205	0.176	0.147	0.088	0.034	0.023	0.017
40,000	0.323	0.313	0.235	0.108	0.047	0.032	0.023
50,000	0.558	0.489	0.382	0.176	0.063	0.042	0.032
60,000	0.597	0.523	0.421	0.201	0.072	0.049	0.038
70,000	0.636	0.558	0.460	0.225	0.081	0.057	0.043
80,000	0.727	0.637	0.525	0.257	0.093	0.065	0.049
90,000	0.818	0.717	0.591	0.289	0.104	0.073	0.055
100,000	0.908	0.797	0.657	0.321	0.116	0.081	0.061

### LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	3.79	3.34	2.46	1.05	0.57	0.44	0.32
20,000	4.33	4.24	3.70	2.64	1.04	0.78	0.55
30,000	6.03	5.93	5.31	3.72	1.50	1.09	0.74
40,000	7.61	7.52	7.00	5.12	2.02	1.50	1.06
50,000	10.80	10.70	9.29	6.45	2.38	1.85	1.32
60,000	14.30	14.20	11.73	7.66	2.96	2.20	1.58
70,000	17.80	17.71	14.17	8.87	3.53	2.56	1.85
80,000	20.35	20.24	16.20	10.14	4.04	2.93	2.11
90,000	22.89	22.77	18.22	11.40	4.54	3.29	2.38
100,000	25.43	25.29	20.25	12.67	5.05	3.66	2.64

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.75	2.48	1.86	0.96	0.53	0.42	0.33
20,000	4.91	4.78	3.79	1.68	0.96	0.75	0.56
30,000	4.97	4.88	4.25	2.57	1.14	0.87	0.61
40,000	9.04	8.94	6.81	3.18	1.50	1.14	0.83
50,000	16.19	13.91	10.64	5.13	1.94	1.41	1.06
60,000	17.09	14.92	11.96	6.09	2.29	1.67	1.23
70,000	17.98	15.94	13.28	7.06	2.64	1.93	1.41
80,000	20.55	18.22	15.17	8.07	3.02	2.21	1.61
90,000	23.12	20.49	17.07	9.07	3.40	2.49	1.81
100,000	25.69	22.77	18.97	10.08	3.78	2.76	2.01

- Screening tables based on meteorological data collected from San Mateo Sewage Treatment Plant in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM<sub>2.5</sub> concentrations were based on emissions in 2014.

# Santa Clara County

## PM<sub>2.5</sub> Concentrations and Cancer Risks

### Generated from Surface Streets

#### How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

### PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.156	0.148	0.087	0.039	0.016	0.013	0.009
20,000	0.174	0.165	0.148	0.096	0.031	0.021	0.016
30,000	0.243	0.235	0.217	0.148	0.051	0.034	0.018
40,000	0.304	0.296	0.261	0.191	0.070	0.046	0.028
50,000	0.435	0.426	0.356	0.252	0.087	0.061	0.036
60,000	0.582	0.574	0.474	0.304	0.100	0.071	0.047
70,000	0.730	0.722	0.591	0.356	0.113	0.081	0.057
80,000	0.835	0.825	0.676	0.407	0.129	0.092	0.066
90,000	0.939	0.928	0.760	0.458	0.145	0.104	0.074
100,000	1.043	1.031	0.844	0.509	0.161	0.115	0.082

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.122	0.104	0.083	0.039	0.017	0.013	0.010
20,000	0.183	0.174	0.104	0.070	0.037	0.025	0.021
30,000	0.217	0.209	0.113	0.096	0.047	0.034	0.023
40,000	0.383	0.348	0.269	0.130	0.063	0.047	0.034
50,000	0.704	0.609	0.461	0.174	0.078	0.052	0.043
60,000	0.743	0.652	0.526	0.226	0.100	0.068	0.052
70,000	0.782	0.695	0.591	0.278	0.122	0.084	0.061
80,000	0.894	0.795	0.676	0.318	0.139	0.096	0.070
90,000	1.006	0.894	0.760	0.358	0.156	0.108	0.078
100,000	1.118	0.994	0.844	0.397	0.174	0.120	0.087

### LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	3.96	3.91	2.68	1.21	0.58	0.49	0.35
20,000	4.50	4.40	3.86	2.69	1.02	0.71	0.49
30,000	6.29	6.11	5.19	3.61	1.35	0.94	0.58
40,000	8.08	7.73	7.17	4.73	1.80	1.30	0.85
50,000	11.24	11.01	9.65	6.30	2.33	1.66	1.12
60,000	14.84	14.64	12.03	7.65	2.74	1.95	1.23
70,000	18.45	18.27	14.42	9.00	3.14	2.24	1.35
80,000	21.09	20.88	16.48	10.29	3.59	2.56	1.55
90,000	23.72	23.49	18.54	11.57	4.03	2.88	1.74
100,000	26.36	26.10	20.60	12.86	4.48	3.20	1.93

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.85	2.57	2.07	1.29	0.71	0.64	0.57
20,000	4.63	4.50	3.64	1.80	1.07	0.89	0.67
30,000	4.97	4.88	4.08	2.60	1.30	1.03	0.71
40,000	8.81	8.13	6.54	3.37	1.75	1.34	1.07
50,000	15.41	13.58	10.41	4.28	2.02	1.52	1.34
60,000	16.53	14.49	11.98	5.31	2.46	1.84	1.50
70,000	17.64	15.40	13.56	6.33	2.89	2.16	1.66
80,000	20.17	17.60	15.50	7.24	3.30	2.47	1.90
90,000	22.69	19.80	17.44	8.14	3.71	2.78	2.13
100,000	25.21	22.00	19.37	9.04	4.13	3.08	2.37

- Screening tables based on meteorological data collected from San Jose Airport in 1997.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.03.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM<sub>2.5</sub> concentrations were based on emissions in 2014.

# Solano County

## PM<sub>2.5</sub> Concentrations and Cancer Risks

### Generated from Surface Streets

#### How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

### PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.096	0.074	0.057	0.030	0.011	0.010	0.008
20,000	0.120	0.136	0.120	0.088	0.034	0.022	0.015
30,000	0.200	0.192	0.176	0.128	0.048	0.034	0.026
40,000	0.248	0.240	0.224	0.160	0.064	0.047	0.034
50,000	0.352	0.344	0.296	0.208	0.080	0.062	0.042
60,000	0.467	0.459	0.388	0.260	0.092	0.075	0.051
70,000	0.583	0.575	0.479	0.312	0.104	0.088	0.061
80,000	0.667	0.657	0.548	0.356	0.119	0.100	0.069
90,000	0.750	0.740	0.616	0.401	0.134	0.113	0.078
100,000	0.833	0.822	0.685	0.445	0.148	0.126	0.087

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM <sub>2.5</sub> Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.072	0.064	0.048	0.040	0.015	0.012	0.008
20,000	0.160	0.136	0.096	0.074	0.031	0.021	0.014
30,000	0.208	0.200	0.192	0.112	0.041	0.027	0.015
40,000	0.232	0.216	0.208	0.152	0.062	0.038	0.025
50,000	0.479	0.415	0.328	0.184	0.077	0.051	0.033
60,000	0.483	0.431	0.348	0.216	0.094	0.062	0.036
70,000	0.487	0.447	0.368	0.248	0.112	0.072	0.040
80,000	0.557	0.511	0.420	0.283	0.128	0.082	0.046
90,000	0.627	0.575	0.473	0.318	0.144	0.092	0.051
100,000	0.696	0.639	0.525	0.354	0.160	0.103	0.057

### LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.42	2.01	1.53	0.80	0.43	0.34	0.26
20,000	3.04	3.02	2.65	1.85	0.81	0.62	0.47
30,000	4.35	4.31	3.87	2.77	1.17	0.91	0.66
40,000	5.52	5.48	5.15	3.68	1.61	1.24	0.95
50,000	7.74	7.69	6.80	4.95	2.08	1.57	1.17
60,000	10.14	10.06	8.57	6.06	2.45	1.85	1.37
70,000	12.54	12.43	10.33	7.17	2.81	2.13	1.57
80,000	14.34	14.21	11.80	8.19	3.21	2.43	1.80
90,000	16.13	15.98	13.28	9.22	3.61	2.73	2.02
100,000	17.92	17.76	14.76	10.24	4.01	3.04	2.25

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	1.76	1.47	1.17	0.88	0.44	0.35	0.25
20,000	3.68	3.58	2.38	1.73	0.80	0.58	0.40
30,000	4.25	4.21	3.71	2.40	1.02	0.66	0.44
40,000	5.58	5.31	4.29	3.14	1.40	0.99	0.62
50,000	10.92	8.86	7.01	3.77	1.73	1.21	0.81
60,000	11.10	9.40	7.56	4.65	2.03	1.42	0.90
70,000	11.28	9.94	8.11	5.52	2.33	1.62	0.99
80,000	12.89	11.36	9.26	6.31	2.66	1.85	1.13
90,000	14.51	12.79	10.42	7.10	2.99	2.08	1.27
100,000	16.12	14.21	11.58	7.89	3.33	2.31	1.41

- Screening tables based on meteorological data collected from Suisun Sewage Treatment Plant in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.02.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM<sub>2.5</sub> concentrations were based on emissions in 2014.



# Sonoma County PM2.5 Concentrations and Cancer Risks Generated from Surface Streets

**How to use the screening tables:**

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

## PM<sub>2.5</sub> CONCENTRATIONS (UG/M<sup>3</sup>)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.162	0.152	0.105	0.035	0.016	0.013	0.010
20,000	0.181	0.171	0.152	0.105	0.032	0.022	0.017
30,000	0.257	0.247	0.219	0.152	0.053	0.036	0.021
40,000	0.323	0.314	0.285	0.200	0.068	0.047	0.030
50,000	0.456	0.447	0.380	0.247	0.086	0.065	0.040
60,000	0.604	0.594	0.494	0.314	0.105	0.077	0.051
70,000	0.751	0.742	0.608	0.380	0.124	0.088	0.063
80,000	0.858	0.848	0.695	0.435	0.141	0.101	0.072
90,000	0.966	0.953	0.782	0.489	0.159	0.114	0.081
100,000	1.073	1.059	0.869	0.543	0.177	0.126	0.090

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m <sup>3</sup> )						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.071	0.071	0.069	0.051	0.019	0.017	0.015
20,000	0.143	0.133	0.114	0.095	0.047	0.036	0.026
30,000	0.210	0.238	0.219	0.143	0.068	0.055	0.032
40,000	0.229	0.248	0.238	0.191	0.085	0.065	0.050
50,000	0.419	0.343	0.286	0.219	0.114	0.084	0.057
60,000	0.429	0.362	0.329	0.267	0.133	0.099	0.071
70,000	0.438	0.381	0.372	0.314	0.152	0.114	0.086
80,000	0.501	0.436	0.425	0.359	0.174	0.131	0.098
90,000	0.564	0.490	0.478	0.404	0.196	0.147	0.110
100,000	0.626	0.544	0.531	0.449	0.218	0.163	0.123

## LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	5.12	4.96	3.60	1.56	0.89	0.63	0.50
20,000	5.94	5.86	5.18	3.60	1.41	1.25	0.89
30,000	8.28	8.19	7.36	5.18	2.02	1.42	1.04
40,000	10.53	10.37	9.04	6.76	2.62	1.86	1.34
50,000	15.04	14.74	12.77	8.27	3.29	2.39	1.71
60,000	19.92	19.55	16.17	10.52	3.93	2.84	1.94
70,000	24.81	24.37	19.57	12.77	4.56	3.29	2.18
80,000	28.36	27.85	22.37	14.60	5.22	3.76	2.49
90,000	31.90	31.33	25.16	16.42	5.87	4.23	2.80
100,000	35.44	34.81	27.96	18.25	6.52	4.70	3.11

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.55	2.26	1.82	1.01	0.75	0.71	0.67
20,000	5.02	3.79	3.04	1.93	1.29	1.06	0.90
30,000	7.42	7.39	6.79	4.38	2.11	1.59	1.27
40,000	7.95	7.91	8.25	6.31	3.00	2.32	1.65
50,000	13.76	12.00	9.76	7.07	3.69	2.78	1.95
60,000	14.31	12.38	10.90	8.62	4.36	3.27	2.40
70,000	14.87	12.77	12.04	10.16	5.04	3.76	2.86
80,000	16.99	14.60	13.76	11.61	5.76	4.30	3.26
90,000	19.12	16.42	15.48	13.06	6.48	4.83	3.67
100,000	21.24	18.25	17.20	14.51	7.20	5.37	4.08

- Screening tables based on meteorological data collected from Santa Rosa in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.03.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.