

Table 1
Existing General Plan Land Use Alternative
Estimated Unmitigated Operational Emissions

Emissions Source	Emissions in Pounds per Day					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summertime Emissions¹						
Operational (Mobile) Sources	224.54	273.72	2,515.43	3.74	610.54	119.01
Area/Stationary Sources	27.72	29.06	25.94	0.00	0.06	0.06
Metrolink Operational (Mobile) Sources	2.18	3.21	28.51	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.18	0.09	1.61	0.00	0.01	0.01
WRF Operational (Mobile) Sources	0.32	0.29	2.74	0.00	0.68	0.13
WRF Area Sources	0.30	0.83	2.23	0.00	0.01	0.01
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Summertime Emissions Total	258.52	358.80	2,588.00	3.79	620.42	122.48
Proposed Project	176.21	197.62	1,162.61	1.67	273.45	54.86
Exceeds Proposed Project?	YES	YES	YES	YES	YES	YES
Wintertime Emissions²						
Operational (Mobile) Sources	242.54	328.88	2,392.79	3.11	610.54	119.01
Area/Stationary Sources	27.60	29.04	24.39	0.00	0.05	0.05
Metrolink Operational (Mobile) Sources	2.44	3.86	27.10	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.06	0.07	0.06	0.00	0.00	0.00
WRF Operational (Mobile) Sources	0.28	0.35	2.55	0.00	0.68	0.13
WRF Area Sources	0.18	0.81	0.68	0.00	0.00	0.00
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Wintertime Emissions Total	276.38	414.61	2,459.11	3.16	620.39	122.45
Proposed Project	182.61	228.53	1,101.72	1.44	273.91	55.32
Exceeds Proposed Project?	YES	YES	YES	YES	YES	YES

Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.

Totals in table may not appear to add exactly due to rounding in the computer model calculations.

¹ "Summertime Emissions" are representative of the conditions that may occur during the ozone season (May 1 to October 31).

² "Wintertime Emissions" are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 2
Existing General Plan Land Use Alternative
Estimated Direct Greenhouse Gas Emissions

GHG Emissions Source	Emissions (Metric Tons CO₂e/year)
Operational (Mobile) Sources	61,969.25
Area Sources (Natural Gas Consumption)	5,785.88
Metrolink Operational (Mobile) Sources	767.62
Metrolink Locomotives (Idling)	546.60
Metrolink Area Sources	13.75
WRF Operational (Mobile) Sources	72.38
WRF Area Sources	173.18
WRF Emergency Generator	12.36
Annual Total	69,340.56
Proposed Project (Direct GHG Emissions)	31,337.55
Exceeds Proposed Project?	YES

*Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in Appendix X.
Totals in table may not appear to add exactly due to rounding.
Does not include construction-related GHG emissions.*

Table 3
Corridor Alternative
Estimated Unmitigated Operational Emissions

Emissions Source	Emissions in Pounds per Day					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summertime Emissions¹						
Operational (Mobile) Sources	88.34	105.21	960.50	1.42	232.25	45.29
Area/Stationary Sources	65.54	19.04	17.99	0.00	0.07	0.07
Metrolink Operational (Mobile) Sources	2.18	3.21	28.51	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.18	0.09	1.61	0.00	0.01	0.01
WRF Operational (Mobile) Sources	0.32	0.29	2.74	0.00	0.68	0.13
WRF Area Sources	0.30	0.83	2.23	0.00	0.01	0.01
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Summertime Emissions Total	160.14	180.27	1,025.12	1.47	242.14	48.77
Proposed Project	176.21	197.62	1,162.61	1.67	273.45	54.86
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO
Wintertime Emissions²						
Operational (Mobile) Sources	95.07	126.33	920.36	1.18	232.25	45.29
Area/Stationary Sources	65.28	24.94	12.81	0.04	0.53	0.52
Metrolink Operational (Mobile) Sources	2.44	3.86	27.10	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.06	0.07	0.06	0.00	0.00	0.00
WRF Operational (Mobile) Sources	0.28	0.35	2.55	0.00	0.68	0.13
WRF Area Sources	0.18	0.81	0.68	0.00	0.00	0.00
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Wintertime Emissions Total	166.59	207.96	975.10	1.27	242.58	49.20
Proposed Project	182.61	228.53	1,101.72	1.44	273.91	55.32
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO

Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.

Totals in table may not appear to add exactly due to rounding in the computer model calculations.

¹ "Summertime Emissions" are representative of the conditions that may occur during the ozone season (May 1 to October 31).

² "Wintertime Emissions" are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 4
Corridor Alternative
Estimated Direct Greenhouse Gas Emissions

GHG Emissions Source	Emissions (Metric Tons CO₂e/year)
Operational (Mobile) Sources	23,578.33
Area Sources (Natural Gas Consumption)	3,953.33
Metrolink Operational (Mobile) Sources	767.62
Metrolink Locomotives (Idling)	546.60
Metrolink Area Sources	13.75
WRF Operational (Mobile) Sources	72.38
WRF Area Sources	173.18
WRF Emergency Generator	12.36
Annual Total	29,117.55
Proposed Project (Direct GHG Emissions)	31,337.55
Exceeds Proposed Project?	NO

*Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.
Totals in table may not appear to add exactly due to rounding.
Does not include construction-related GHG emissions.*

Table 5
Proposed County OVOV Land Use Alternative
Estimated Unmitigated Operational Emissions

Emissions Source	Emissions in Pounds per Day					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summertime Emissions¹						
Operational (Mobile) Sources	33.86	41.56	389.66	0.57	93.27	18.19
Area/Stationary Sources	44.30	13.23	29.38	0.00	0.08	0.08
WRF Operational (Mobile) Sources	0.32	0.29	2.74	0.00	0.68	0.13
WRF Area Sources	0.30	0.83	2.23	0.00	0.01	0.01
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Summertime Emissions Total	79.31	58.86	426.70	0.58	94.20	18.57
Proposed Project	176.21	197.62	1,162.61	1.67	273.45	54.86
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO
Wintertime Emissions²						
Operational (Mobile) Sources	36.08	49.96	369.79	0.48	93.27	18.19
Area/Stationary Sources	40.45	18.21	7.75	0.03	0.44	0.44
WRF Operational (Mobile) Sources	0.28	0.35	2.55	0.00	0.68	0.13
WRF Area Sources	0.18	0.81	0.68	0.00	0.00	0.00
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Wintertime Emissions Total	77.52	72.28	383.46	0.52	94.55	18.92
Proposed Project	182.61	228.53	1,101.72	1.44	273.91	55.32
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO

Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.

Totals in table may not appear to add exactly due to rounding in the computer model calculations.

¹ "Summertime Emissions" are representative of the conditions that may occur during the ozone season (May 1 to October 31).

² "Wintertime Emissions" are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 6
Proposed County OVOV Land Use Alternative
Estimated Direct Greenhouse Gas Emissions

GHG Emissions Source	Emissions (Metric Tons CO₂e/year)
Operational (Mobile) Sources	9,496.90
Area Sources (Natural Gas Consumption)	2,755.27
WRF Operational (Mobile) Sources	72.38
WRF Area Sources	173.18
WRF Emergency Generator	12.36
Annual Total	12,510.09
Proposed Project (Direct GHG Emissions)	31,337.55
Exceeds Proposed Project?	NO

*Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.
Totals in table may not appear to add exactly due to rounding.
Does not include construction-related GHG emissions.*

Table 7
River Pull Back Alternative
Estimated Unmitigated Operational Emissions

Emissions Source	Emissions in Pounds per Day					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summertime Emissions¹						
Operational (Mobile) Sources	91.14	108.54	991.16	1.47	239.68	46.74
Area/Stationary Sources	66.69	19.57	18.35	0.00	0.07	0.07
Metrolink Operational (Mobile) Sources	2.18	3.21	28.51	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.18	0.09	1.61	0.00	0.01	0.01
WRF Operational (Mobile) Sources	0.32	0.29	2.74	0.00	0.68	0.13
WRF Area Sources	0.30	0.83	2.23	0.00	0.01	0.01
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Summertime Emissions Total	164.09	184.13	1,056.14	1.52	249.57	50.22
Proposed Project	176.21	197.62	1,162.61	1.67	273.45	54.86
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO
Wintertime Emissions²						
Operational (Mobile) Sources	98.04	130.32	949.52	1.22	239.68	46.74
Area/Stationary Sources	66.44	25.55	13.21	0.04	0.53	0.53
Metrolink Operational (Mobile) Sources	2.44	3.86	27.10	0.04	7.28	1.42
Metrolink Locomotives (Idling)	2.75	48.65	8.85	0.00	1.68	1.68
Metrolink Area Sources	0.06	0.07	0.06	0.00	0.00	0.00
WRF Operational (Mobile) Sources	0.28	0.35	2.55	0.00	0.68	0.13
WRF Area Sources	0.18	0.81	0.68	0.00	0.00	0.00
WRF Emergency Generator	0.16	2.95	2.69	0.01	0.16	0.16
WRF Wastewater Treatment Operations	0.37	0.00	0.00	0.00	0.00	0.00
Wintertime Emissions Total	170.72	212.56	1,004.66	1.31	250.01	50.66
Proposed Project	182.61	228.53	1,101.72	1.44	273.91	55.32
Exceeds Proposed Project?	NO	NO	NO	NO	NO	NO

Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.

Totals in table may not appear to add exactly due to rounding in the computer model calculations.

¹ "Summertime Emissions" are representative of the conditions that may occur during the ozone season (May 1 to October 31).

² "Wintertime Emissions" are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 8
River Pull Back Alternative
Estimated Direct Greenhouse Gas Emissions

GHG Emissions Source	Emissions (Metric Tons CO₂e/year)
Operational (Mobile) Sources	24,332.81
Area Sources (Natural Gas Consumption)	4,059.73
Metrolink Operational (Mobile) Sources	767.62
Metrolink Locomotives (Idling)	546.60
Metrolink Area Sources	13.75
WRF Operational (Mobile) Sources	72.38
WRF Area Sources	173.18
WRF Emergency Generator	12.36
Annual Total	29,978.43
Proposed Project (Direct GHG Emissions)	31,337.55
Exceeds Proposed Project?	NO

*Source: Impact Sciences, Inc., (2009). Emissions calculations are provided in **Appendix X**.*

Totals in table may not appear to add exactly due to rounding.

Does not include construction-related GHG emissions.
