Appendix I

RAGS D TABLE 9s AND TABLE 10s

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	6.8E-08	NA	3.7E-06	3.7E-06	Tetrachloroethene (PCE)	Liver/Body Weight	4E-05	NA	2E-03	2E-03
			Trichloroethene (TCE)	3.5E-09	NA	5.1E-08	5.4E-08	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	9E-05	NA	1E-03	1E-03
			Vinyl Chloride	2.8E-09	NA	1.3E-08	1.6E-08	Vinyl Chloride	Liver	4E-06	NA	2E-05	2E-05
			(Total)	7.4E-08	NC	3.7E-06	3.8E-06	(Total)		1E-04	NC	3E-03	3E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	3.8E-06
Total Risk Across Sediment	NC
Total Adult Risk Across All Media and All Exposure Routes	3.8E-06
Total Child Risk Across All Media and All Exposure Routes	3.1E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	6.9E-06

Total Hazard Index Across All Media and All Exposure Routes: 3E-03

Total Liver HI =	3E-03
Total Body Weight HI =	2E-03
Total Kidney HI =	1E-03
Total Developmental (Fetus) HI =	1E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	8.0E-08	NA	2.1E-06	2.2E-06	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	5E-03	5E-03
			Trichloroethene (TCE)	4.1E-09	NA	2.9E-08	3.3E-08	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	4E-04	NA	3E-03	3E-03
			Vinyl Chloride (pr + non-pr)	2.7E-07	NA	6.3E-07	8.9E-07	Vinyl Chloride	Liver	2E-05	NA	4E-05	6E-05
			(Total)	3.5E-07	NC	2.7E-06	3.1E-06	(Total)		6E-04	NC	7E-03	8E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	3.1E-06
Total Risk Across Sediment	NC
Total Child Risk Across All Media and All Exposure Routes	3.1E-06
Total Adult Risk Across All Media and All Exposure Routes	3.8E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	6.9E-06

Total Hazard Index Across All Media and All Exposure Routes: 8E-03

Total Liver HI =	8E-03
Total Body Weight HI =	5E-03
Total Kidney HI =	3E-03
Total Developmental (Fetus) HI =	3E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	9.3E-09	NA	4.8E-07	4.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	1E-05	NA	7E-04	7E-04
			Trichloroethene (TCE)	5.3E-10	NA	7.8E-09	8.3E-09	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-05	NA	5E-04	5E-04
			Vinyl Chloride	5.2E-10	NA	2.5E-09	3.0E-09	Vinyl Chloride	Liver	2E-06	NA	9E-06	1E-05
			(Total)	1.0E-08	NC	4.9E-07	5.0E-07	(Total)		5E-05	NC	1E-03	1E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water: 5.0E-07
Total Risk Across Sediment: NC
Total Adult Risk Across All Media and All Exposure Routes: 5.0E-07

Total Child Risk Across All Media and All Exposure Routes: 1.7E-06
Total Adult and Child Risk Across All Media and All Exposure Routes: 2.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 1E-03

Total Liver HI = 1E-03
Total Body Weight HI = 7E-04
Total Kidney HI = 5E-04
Total Developmental (Fetus) HI = 5E-04

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributaruy	Tetrachloroethene (PCE)	2.9E-08	NA	7.4E-07	7.7E-07	Tetrachloroethene (PCE)	Liver/Body Weight	6E-05	NA	2E-03	2E-03
			Trichloroethene (TCE)	1.6E-09	NA	1.2E-08	1.3E-08	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	2E-04	NA	1E-03	1E-03
			Vinyl Chloride (pr + non-pr)	2.7E-07	NA	6.2E-07	8.9E-07	Vinyl Chloride	Liver	9E-06	NA	2E-05	3E-05
			(Total)	3.0E-07	NC	1.4E-06	1.7E-06	(Total)		2E-04	NC	3E-03	3E-03
Sediment	Sediment	210 Tributaruy	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	1.7E-06
Total Risk Across Sediment	NC
Total Child Risk Across All Media and All Exposure Routes	1.7E-06
Total Adult Risk Across All Media and All Exposure Routes	5.0E-07
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 3E-03

Total Liver HI =	3E-03
Total Body Weight HI =	2E-03
Total Kidney HI =	1E-03
Total Developmental (Fetus) HI =	1E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	3.6E-08	NA	1.1E-06	1.1E-06	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	6E-04	6E-04
			Trichloroethene (TCE)	1.8E-09	NA	1.5E-08	1.7E-08	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	4E-05	NA	4E-04	4E-04
			Vinyl Chloride	1.4E-09	NA	4.0E-09	5.4E-09	Vinyl Chloride	Liver	2E-06	NA	5E-06	7E-06
			(Total)	3.9E-08	NC	1.1E-06	1.2E-06	(Total)		6E-05	NC	9E-04	1E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	1.2E-06
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	1.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 1E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI =	1E-03
Total Body Weight HI =	6E-04
Total Kidney HI =	4E-04
Total Developmental (Fetus) HI =	4E-04

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	6.8E-09	NA	2.1E-07	2.1E-07	Tetrachloroethene (PCE)	Liver/Body Weight	1E-05	NA	4E-04	4E-04
			Trichloroethene (TCE)	3.9E-10	NA	3.3E-09	3.7E-09	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-05	NA	3E-04	3E-04
			Vinyl Chloride	3.8E-10	NA	1.0E-09	1.4E-09	Vinyl Chloride	Liver	2E-06	NA	5E-06	7E-06
			(Total)	7.6E-09	NC	2.1E-07	2.2E-07	(Total)		5E-05	NC	7E-04	7E-04
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC
						Total Risk Across Surface Water	2.2E-07					Total Hazard Index Across All Media and All Exposure Routes	7E-04
						Total Risk Across Sediment	NC						
						Total Risk Across All Media and All Exposure Routes	2.2E-07						

Notes:
NA = not available
NC = not calculated

Total Liver HI =	7E-04
Total Body Weight HI =	4E-04
Total Kidney HI =	3E-04
Total Developmental (Fetus) HI =	3E-04

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Construction Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	4.9E-09	NA	1.5E-07	1.6E-07	Tetrachloroethene (PCE)	Liver	2E-05	NA	6E-04	6E-04
			Trichloroethene (TCE)	2.5E-10	NA	2.1E-09	2.4E-09	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	5E-04	NA	4E-03	4E-03
			Vinyl Chloride	2.0E-10	NA	5.5E-10	7.5E-10	Vinyl Chloride	Liver	2E-05	NA	5E-05	7E-05
			(Total)	5.4E-09	NC	1.6E-07	1.6E-07	(Total)		5E-04	NC	4E-03	5E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	1.6E-07
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	1.6E-07

Total Hazard Index Across All Media and All Exposure Routes: 5E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI =	5E-03
Total Kidney HI =	4E-03
Total Developmental (Fetus) HI =	4E-03

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Construction Worker CTE at 210 Tributary
RIVERFRONT 0U4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	1.2E-09	NA	3.6E-08	3.7E-08	Tetrachloroethene (PCE)	Liver	1E-05	NA	4E-04	4E-04
			Trichloroethene (TCE)	6.8E-11	NA	5.8E-10	6.4E-10	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-04	NA	3E-03	3E-03
			Vinyl Chloride	6.6E-11	NA	1.8E-10	2.5E-10	Vinyl Chloride	Liver	2E-05	NA	5E-05	7E-05
			(Total)	1.3E-09	NC	3.7E-08	3.8E-08	(Total)		4E-04	NC	3E-03	4E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	3.8E-08
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	3.8E-08

Total Hazard Index Across All Media and All Exposure Routes: 4E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI =	4E-03
Total Kidney HI =	3E-03
Total Developmental (Fetus) HI =	3E-03

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	6.8E-08	NA	3.7E-06	3.7E-06	Tetrachloroethene (PCE)	Liver/Body Weight	4E-05	NA	2E-03	2E-03
			Trichloroethene (TCE)	1.1E-10	NA	1.7E-09	1.8E-09	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	9E-05	NA	1E-03	1E-03
			Vinyl Chloride	2.8E-09	NA	1.3E-08	1.6E-08	Vinyl Chloride	Liver	4E-06	NA	2E-05	2E-05
			(Total)	7.1E-08	NC	3.7E-06	3.7E-06	(Total)		1E-04	NC	3E-03	3E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC
						Total Risk Across Surface Water	3.7E-06					Total Hazard Index Across All Media and All Exposure Routes	3E-03
						Total Risk Across Sediment	NC						
						Total Adult Risk Across All Media and All Exposure Routes	3.7E-06						
						Total Child Risk Across All Media and All Exposure Routes	3.1E-06					Total Liver HI =	3E-03
						Total Adult and Child Risk Across All Media and All Exposure Routes	6.8E-06					Total Body Weight HI =	2E-03
												Total Kidney HI =	1E-03
												Total Developmental (Fetus) HI =	1E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	8.0E-08	NA	2.1E-06	2.2E-06	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	5E-03	5E-03
			Trichloroethene (TCE)	1.3E-10	NA	9.5E-10	1.1E-09	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	4E-04	NA	3E-03	3E-03
			Vinyl Chloride (pr + non-pr)	2.7E-07	NA	6.3E-07	8.9E-07	Vinyl Chloride	Liver	2E-05	NA	4E-05	6E-05
			(Total)	3.5E-07	NC	2.7E-06	3.1E-06	(Total)		6E-04	NC	7E-03	8E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	3.1E-06
Total Risk Across Sediment	NC
Total Child Risk Across All Media and All Exposure Routes	3.1E-06
Total Adult Risk Across All Media and All Exposure Routes	3.7E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	6.8E-06

Total Hazard Index Across All Media and All Exposure Routes: 8E-03

Total Liver HI =	8E-03
Total Body Weight HI =	5E-03
Total Kidney HI =	3E-03
Total Developmental (Fetus) HI =	3E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	9.3E-09	NA	4.8E-07	4.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	1E-05	NA	7E-04	7E-04
			Trichloroethene (TCE)	1.7E-11	NA	2.5E-10	2.7E-10	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-05	NA	5E-04	5E-04
			Vinyl Chloride	5.2E-10	NA	2.5E-09	3.0E-09	Vinyl Chloride	Liver	2E-06	NA	9E-06	1E-05
			(Total)	9.8E-09	NC	4.9E-07	5.0E-07	(Total)		5E-05	NC	1E-03	1E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	5.0E-07
Total Risk Across Sediment	NC
Total Adult Risk Across All Media and All Exposure Routes	5.0E-07
Total Child Risk Across All Media and All Exposure Routes	1.7E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 1E-03

Total Liver HI =	1E-03
Total Body Weight HI =	7E-04
Total Kidney HI =	5E-04
Total Developmental (Fetus) HI =	5E-04

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributaruy	Tetrachloroethene (PCE)	2.9E-08	NA	7.4E-07	7.7E-07	Tetrachloroethene (PCE)	Liver/Body Weight	6E-05	NA	2E-03	2E-03
			Trichloroethene (TCE)	5.3E-11	NA	3.9E-10	4.4E-10	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	2E-04	NA	1E-03	1E-03
			Vinyl Chloride (pr + non-pr)	2.7E-07	NA	6.2E-07	8.9E-07	Vinyl Chloride	Liver	9E-06	NA	2E-05	3E-05
			(Total)	2.9E-07	NC	1.4E-06	1.7E-06	(Total)		2E-04	NC	3E-03	3E-03
Sediment	Sediment	210 Tributaruy	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water: 1.7E-06
Total Risk Across Sediment: NC
Total Child Risk Across All Media and All Exposure Routes: 1.7E-06

Total Adult Risk Across All Media and All Exposure Routes: 5.0E-07
Total Adult and Child Risk Across All Media and All Exposure Routes: 2.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 3E-03

Total Liver HI = 3E-03
Total Body Weight HI = 2E-03
Total Kidney HI = 1E-03
Total Developmental (Fetus) HI = 1E-03

Notes:
NA = not available
NC = not calculated

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	3.6E-08	NA	1.1E-06	1.1E-06	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	6E-04	6E-04
			Trichloroethene (TCE)	6.0E-11	NA	5.0E-10	5.6E-10	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	4E-05	NA	4E-04	4E-04
			Vinyl Chloride	1.4E-09	NA	4.0E-09	5.4E-09	Vinyl Chloride	Liver	2E-06	NA	5E-06	7E-06
			(Total)	3.7E-08	NC	1.1E-06	1.1E-06	(Total)		6E-05	NC	9E-04	1E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water: 1.1E-06
Total Risk Across Sediment: NC
Total Risk Across All Media and All Exposure Routes: 1.1E-06

Total Hazard Index Across All Media and All Exposure Routes: 1E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI = 1E-03
Total Body Weight HI = 6E-04
Total Kidney HI = 4E-04
Total Developmental (Fetus) HI = 4E-04

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	6.8E-09	NA	2.1E-07	2.1E-07	Tetrachloroethene (PCE)	Liver/Body Weight	1E-05	NA	4E-04	4E-04
			Trichloroethene (TCE)	1.3E-11	NA	1.1E-10	1.2E-10	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-05	NA	3E-04	3E-04
			Vinyl Chloride	3.8E-10	NA	1.0E-09	1.4E-09	Vinyl Chloride	Liver	2E-06	NA	5E-06	7E-06
			(Total)	7.2E-09	NC	2.1E-07	2.1E-07	(Total)		5E-05	NC	7E-04	7E-04
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	2.1E-07
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	2.1E-07

Total Hazard Index Across All Media and All Exposure Routes: 7E-04

Notes:
NA = not available
NC = not calculated

Total Liver HI =	7E-04
Total Body Weight HI =	4E-04
Total Kidney HI =	3E-04
Total Developmental (Fetus) HI =	3E-04

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Construction Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	4.9E-09	NA	1.5E-07	1.6E-07	Tetrachloroethene (PCE)	Liver	2E-05	NA	6E-04	6E-04
			Trichloroethene (TCE)	8.2E-12	NA	6.9E-11	7.7E-11	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	5E-04	NA	4E-03	4E-03
			Vinyl Chloride	2.0E-10	NA	5.5E-10	7.5E-10	Vinyl Chloride	Liver	2E-05	NA	5E-05	7E-05
			(Total)	5.1E-09	NC	1.5E-07	1.6E-07	(Total)		5E-04	NC	4E-03	5E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	1.6E-07
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	1.6E-07

Total Hazard Index Across All Media and All Exposure Routes	5E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI =	5E-03
Total Kidney HI =	4E-03
Total Developmental (Fetus) HI =	4E-03

Table 9.1 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Construction Worker CTE at 210 Tributary
RIVERFRONT 0U4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	Tetrachloroethene (PCE)	1.2E-09	NA	3.6E-08	3.7E-08	Tetrachloroethene (PCE)	Liver	1E-05	NA	4E-04	4E-04
			Trichloroethene (TCE)	2.2E-12	NA	1.9E-11	2.1E-11	Trichloroethene (TCE)	Liver/Kidney/Fetus (Developmental)	3E-04	NA	3E-03	3E-03
			Vinyl Chloride	6.6E-11	NA	1.8E-10	2.5E-10	Vinyl Chloride	Liver	2E-05	NA	5E-05	7E-05
			(Total)	1.3E-09	NC	3.6E-08	3.7E-08	(Total)		4E-04	NC	3E-03	4E-03
Sediment	Sediment	210 Tributary	No COPCs Selected					No COPCs Selected					
			(Total)	NC	NC	NC	NC	(Total)		NC	NC	NC	NC

Total Risk Across Surface Water	3.7E-08
Total Risk Across Sediment	NC
Total Risk Across All Media and All Exposure Routes	3.7E-08

Total Hazard Index Across All Media and All Exposure Routes	4E-03

Notes:
NA = not available
NC = not calculated

Total Liver HI =	4E-03
Total Kidney HI =	3E-03
Total Developmental (Fetus) HI =	3E-03

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	3.8E-07	NA	NA	3.8E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	7.5E-08	NA	NA	7.5E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-03	NA	NA	2E-03
			Vinyl Chloride	6.1E-08	NA	NA	6.1E-08	Vinyl Chloride	Liver	8E-05	NA	NA	8E-05
			(Total)	5.2E-07	NC	NC	5.2E-07	(Total)		2E-03	NC	NC	2E-03
Air	Indoor Vapors	On Site	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	4.4E-05	NA	4.4E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	5.1E-05	NC	5.1E-05	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Surface Only)	5.2E-07	Total Hazard Index Across Soil (Surface Only)	2E-03
Total Risk Across Air (Indoor Vapors)	5.1E-05	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Adult Risk Across All Media and All Exposure Routes	5.2E-05	Total Hazard Index Across All Media and All Exposure Routes	4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	3.3E-05	Total Liver HI =	4E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	8.4E-05	Total Body Weight HI =	2E-04
		Total Kidney HI =	1E-02
		Total Developmetal HI =	2E-03
		Total CNS HI =	4E-02
		Total Endocrine System HI =	3E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	8.9E-07	NA	NA	8.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-03	NA	NA	2E-03
			Trichloroethene (TCE)	1.8E-07	NA	NA	1.8E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-02	NA	NA	2E-02
			Vinyl Chloride (pr + non-pr)	1.9E-06	NA	NA	1.9E-06	Vinyl Chloride	Liver	8E-04	NA	NA	8E-04
			(Total)	2.9E-06	NC	NC	2.9E-06	(Total)		2E-02	NC	NC	2E-02
Air	Indoor Vapors	On Site	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	2.5E-05	NA	2.5E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	3.0E-05	NC	3.0E-05	(Total)		NC	1E-01	NC	1E-01

Total Risk Across Soil (Surface Only)	2.9E-06	Total Hazard Index Across Soil (Surface Only)	2E-02
Total Risk Across Air (Indoor Vapors)	3.0E-05	Total Hazard Index Across Air (Indoor Vapors)	1E-01
Total Child Risk Across All Media and All Exposure Routes	3.3E-05	Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	5.2E-05	Total Liver HI =	1E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	8.4E-05	Total Body Weight HI =	2E-03
		Total Kidney HI =	5E-02
		Total Developmetal HI =	2E-02
		Total CNS HI =	9E-02
		Total Endocrine System HI =	7E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	1.1E-08	NA	NA	1.1E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	NA	2E-05
			Trichloroethene (TCE)	1.2E-09	NA	NA	1.2E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	8E-05	NA	NA	8E-05
			Vinyl Chloride	2.1E-09	NA	NA	2.1E-09	Vinyl Chloride	Liver	8E-06	NA	NA	8E-06
			(Total)	1.5E-08	NC	NC	1.5E-08	(Total)		1E-04	NC	NC	1E-04
Air	Indoor Vapors	On Site	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	6.3E-06	NA	6.3E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	7.4E-06	NC	7.4E-06	(Total)		NC	2E-02	NC	2E-02

Total Risk Across Soil (Surface Only)	1.5E-08	Total Hazard Index Across Soil (Surface Only)	1E-04
Total Risk Across Air (Indoor Vapors)	7.4E-06	Total Hazard Index Across Air (Indoor Vapors)	2E-02
Total Adult Risk Across All Media and All Exposure Routes	7.4E-06	Total Hazard Index Across All Media and All Exposure Routes	2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.2E-05	Total Liver HI =	1E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-05	Total Body Weight HI =	2E-05
		Total Kidney HI =	5E-03
		Total Developmetal HI =	8E-05
		Total CNS HI =	1E-02
		Total Endocrine System HI =	1E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	7.0E-08	NA	NA	7.0E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	7.6E-09	NA	NA	7.6E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	7E-04	NA	NA	7E-04
			Vinyl Chloride (pr + non-pr)	2.6E-07	NA	NA	2.6E-07	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	3.3E-07	NC	NC	3.3E-07	(Total)		1E-03	NC	NC	1E-03
Air	Indoor Vapors	On Site	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	9.7E-06	NA	9.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.1E-05	NC	1.1E-05	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Surface Only)	3.3E-07	Total Hazard Index Across Soil (Surface Only)	1E-03
Total Risk Across Air (Indoor Vapors)	1.1E-05	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Child Risk Across All Media and All Exposure Routes	1.2E-05	Total Hazard Index Across All Media and All Exposure Routes	4E-02

Notes:

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	7.4E-06	Total Liver HI =	4E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-05	Total Body Weight HI =	2E-04
		Total Kidney HI =	1E-02
		Total Developmetal HI =	7E-04
		Total CNS HI =	3E-02
		Total Endocrine System HI =	3E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	3.8E-07	NA	NA	3.8E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	7.5E-08	NA	NA	7.5E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-03	NA	NA	2E-03
			Vinyl Chloride	6.1E-08	NA	NA	6.1E-08	Vinyl Chloride	Liver	8E-05	NA	NA	8E-05
			(Total)	5.2E-07	NC	NC	5.2E-07	(Total)		2E-03	NC	NC	2E-03
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	3E-08	NA	3E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	7E-06	NA	7E-06
			Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			Trichloroethylene (TCE)	NA	6.8E-05	NA	6.8E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-02	NA	5E-02
			Vinyl Chloride	NC	2.1E-07	NC	2.1E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.6E-03	NC	1.6E-03	(Total)		NC	1E+00	NC	1E+00
							Total Risk Across Soil (Surface Only)	5.2E-07					Total Hazard Index Across Soil (Surface Only)	2E-03
							Total Risk Across Air (Outdoor Vapors)	1.6E-03					Total Risk Across Air (Outdoor Vapors)	1E+00
							Total Adult Risk Across All Media and All Exposure Routes	1.6E-03					Total Hazard Index Across All Media and All Exposure Routes	1E+00

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	9.3E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	2.5E-03

Total Liver HI =	5E-02
Total Body Weight HI =	2E-04
Total Kidney HI =	1E+00
Total Developmetal HI =	2E-03
Total Lung HI =	7E-06
Total CNS HI =	5E-02
Total Endocrine System HI =	5E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	8.9E-07	NA	NA	8.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-03	NA	NA	2E-03
			Trichloroethene (TCE)	1.8E-07	NA	NA	1.8E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-02	NA	NA	2E-02
			Vinyl Chloride (pr + non-pr)	1.9E-06	NA	NA	1.9E-06	Vinyl Chloride	Liver	8E-04	NA	NA	8E-04
			(Total)	2.9E-06	NC	NC	2.9E-06	(Total)		2E-02	NC	NC	2E-02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-08	NA	6E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	2E-05	NA	2E-05
			Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			Trichloroethylene (TCE)	NA	4.0E-05	NA	4.0E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			Vinyl Chloride (pr + non-pr)	NC	1.6E-06	NC	1.6E-06	Vinyl Chloride	Liver	NA	3E-03	NA	3E-03
			(Total)	NC	9.3E-04	NC	9.3E-04	(Total)		NC	3E+00	NC	3E+00
						Total Risk Across Soil (Surface Only)	2.9E-06					Total Hazard Index Across Soil (Surface Only)	2E-02
						Total Risk Across Air (Outdoor Vapors)	9.3E-04					Total Risk Across Air (Outdoor Vapors)	3E+00
Notes:						Total Child Risk Across All Media and All Exposure Routes	9.3E-04					Total Hazard Index Across All Media and All Exposure Routes	3E+00

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	1.6E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	2.5E-03

Total Liver HI =	1E-01
Total Body Weight HI =	2E-03
Total Kidney HI =	3E+00
Total Developmetal HI =	2E-02
Total Lung HI =	2E-05
Total CNS HI =	1E-01
Total Endocrine System HI =	1E-01

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	1.1E-08	NA	NA	1.1E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	NA	2E-05
			Trichloroethene (TCE)	1.2E-09	NA	NA	1.2E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	8E-05	NA	NA	8E-05
			Vinyl Chloride	2.1E-09	NA	NA	2.1E-09	Vinyl Chloride	Liver	8E-06	NA	NA	8E-06
			(Total)	1.5E-08	NC	NC	1.5E-08	(Total)		1E-04	NC	NC	1E-04
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	8.4E-06	NA	8.4E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NC	5.3E-08	NC	5.3E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	7.5E-05	NC	7.5E-05	(Total)		NC	2E-01	NC	2E-01

Total Risk Across Soil (Surface Only)	1.5E-08	Total Hazard Index Across Soil (Surface Only)	1E-04
Total Risk Across Air (Outdoor Vapors)	7.5E-05	Total Risk Across Air (Outdoor Vapors)	2E-01
Total Adult Risk Across All Media and All Exposure Routes	7.5E-05	Total Hazard Index Across All Media and All Exposure Routes	2E-01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.2E-04	Total Liver HI =	2E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-04	Total Body Weight HI =	2E-05
		Total Kidney HI =	1E-01
		Total Developmetal HI =	8E-05
		Total Lung HI =	5E-06
		Total CNS HI =	1E-02
		Total Endocrine System HI =	1E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	7.0E-08	NA	NA	7.0E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	7.6E-09	NA	NA	7.6E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	7E-04	NA	NA	7E-04
			Vinyl Chloride (pr + non-pr)	2.6E-07	NA	NA	2.6E-07	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	3.3E-07	NC	NC	3.3E-07	(Total)		1E-03	NC	NC	1E-03
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Kidney	NA	1E-08	NA	1E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	1E-05	NA	1E-05
			Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E-01	NA	3E-01
			Trichloroethylene (TCE)	NA	1.3E-05	NA	1.3E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride (pr + non-pr)	NC	1.6E-06	NC	1.6E-06	Vinyl Chloride	Liver	NA	2E-03	NA	2E-03
			(Total)	NC	1.2E-04	NC	1.2E-04	(Total)		NC	4E-01	NC	4E-01

Total Risk Across Soil (Surface Only)	3.3E-07	Total Hazard Index Across Soil (Surface Only)	1E-03
Total Risk Across Air (Outdoor Vapors)	1.2E-04	Total Risk Across Air (Outdoor Vapors)	4E-01
Total Child Risk Across All Media and All Exposure Routes	1.2E-04	Total Hazard Index Across All Media and All Exposure Routes	4E-01

Notes:

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	7.5E-05	Total Liver HI =	4E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-04	Total Body Weight HI =	2E-04
		Total Kidney HI =	3E-01
		Total Developmetal HI =	7E-04
		Total Lung HI =	1E-05
		Total CNS HI =	3E-02
		Total Endocrine System HI =	3E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	3.8E-07	NA	NA	3.8E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	2.4E-09	NA	NA	2.4E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-03	NA	NA	2E-03
			Vinyl Chloride	6.1E-08	NA	NA	6.1E-08	Vinyl Chloride	Liver	8E-05	NA	NA	8E-05
			(Total)	4.4E-07	NC	NC	4.4E-07	(Total)		2E-03	NC	NC	2E-03
Air	Indoor Vapors	On Site	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	7.6E-07	NA	7.6E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	8.2E-06	NC	8.2E-06	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Surface Only)	4.4E-07	Total Hazard Index Across Soil (Surface Only)	2E-03
Total Risk Across Air (Indoor Vapors)	8.2E-06	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Adult Risk Across All Media and All Exposure Routes	8.6E-06	Total Hazard Index Across All Media and All Exposure Routes	4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	7.5E-06	Total Liver HI =	4E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.6E-05	Total Body Weight HI =	2E-04
		Total Kidney HI =	1E-02
		Total Developmetal HI =	2E-03
		Total CNS HI =	4E-02
		Total Endocrine System HI =	3E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	8.9E-07	NA	NA	8.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-03	NA	NA	2E-03
			Trichloroethene (TCE)	5.7E-09	NA	NA	5.7E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-02	NA	NA	2E-02
			Vinyl Chloride (pr + non-pr)	1.9E-06	NA	NA	1.9E-06	Vinyl Chloride	Liver	8E-04	NA	NA	8E-04
			(Total)	2.8E-06	NC	NC	2.8E-06	(Total)		2E-02	NC	NC	2E-02
Air	Indoor Vapors	On Site	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	4.4E-07	NA	4.4E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	4.8E-06	NC	4.8E-06	(Total)		NC	1E-01	NC	1E-01

Total Risk Across Soil (Surface Only)	2.8E-06	Total Hazard Index Across Soil (Surface Only)	2E-02
Total Risk Across Air (Indoor Vapors)	4.8E-06	Total Hazard Index Across Air (Indoor Vapors)	1E-01
Total Child Risk Across All Media and All Exposure Routes	7.5E-06	Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	8.6E-06	Total Liver HI =	1E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	1.6E-05	Total Body Weight HI =	2E-03
		Total Kidney HI =	5E-02
		Total Developmetal HI =	2E-02
		Total CNS HI =	9E-02
		Total Endocrine System HI =	7E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	1.1E-08	NA	NA	1.1E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	NA	2E-05
			Trichloroethene (TCE)	4.0E-11	NA	NA	4.0E-11	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	8E-05	NA	NA	8E-05
			Vinyl Chloride	2.1E-09	NA	NA	2.1E-09	Vinyl Chloride	Liver	8E-06	NA	NA	8E-06
			(Total)	1.3E-08	NC	NC	1.3E-08	(Total)		1E-04	NC	NC	1E-04
Air	Indoor Vapors	On Site	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	1.1E-07	NA	1.1E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	1.2E-06	NC	1.2E-06	(Total)		NC	2E-02	NC	2E-02

Total Risk Across Soil (Surface Only)	1.3E-08	Total Hazard Index Across Soil (Surface Only)	1E-04
Total Risk Across Air (Indoor Vapors)	1.2E-06	Total Hazard Index Across Air (Indoor Vapors)	2E-02
Total Adult Risk Across All Media and All Exposure Routes	1.2E-06	Total Hazard Index Across All Media and All Exposure Routes	2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.2E-06	Total Liver HI =	1E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	3.4E-06	Total Body Weight HI =	2E-05
		Total Kidney HI =	5E-03
		Total Developmetal HI =	8E-05
		Total CNS HI =	1E-02
		Total Endocrine System HI =	1E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	7.0E-08	NA	NA	7.0E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	2.5E-10	NA	NA	2.5E-10	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	7E-04	NA	NA	7E-04
			Vinyl Chloride (pr + non-pr)	2.6E-07	NA	NA	2.6E-07	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	3.3E-07	NC	NC	3.3E-07	(Total)		1E-03	NC	NC	1E-03
Air	Indoor Vapors	On Site	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	1.7E-07	NA	1.7E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.9E-06	NC	1.9E-06	(Total)		NC	4E-02	NC	4E-02
							Total Risk Across Soil (Surface Only)	3.3E-07					Total Hazard Index Across Soil (Surface Only)	1E-03
							Total Risk Across Air (Indoor Vapors)	1.9E-06					Total Hazard Index Across Air (Indoor Vapors)	4E-02
Notes:							Total Child Risk Across All Media and All Exposure Routes	2.2E-06					Total Hazard Index Across All Media and All Exposure Routes	4E-02

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	1.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	3.4E-06

Total Liver HI =	4E-02
Total Body Weight HI =	2E-04
Total Kidney HI =	1E-02
Total Developmetal HI =	7E-04
Total CNS HI =	3E-02
Total Endocrine System HI =	3E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	3.8E-07	NA	NA	3.8E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	2.4E-09	NA	NA	2.4E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-03	NA	NA	2E-03
			Vinyl Chloride	6.1E-08	NA	NA	6.1E-08	Vinyl Chloride	Liver	8E-05	NA	NA	8E-05
			(Total)	4.4E-07	NC	NC	4.4E-07	(Total)		2E-03	NC	NC	2E-03
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	3E-08	NA	3E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	7E-06	NA	7E-06
			Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			Trichloroethylene (TCE)	NA	1.2E-06	NA	1.2E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-02	NA	5E-02
			Vinyl Chloride	NC	2.1E-07	NC	2.1E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.5E-03	NC	1.5E-03	(Total)		NC	1E+00	NC	1E+00
			Total Risk Across Soil (Surface Only)				4.4E-07		Total Hazard Index Across Soil (Surface Only)				2E-03
			Total Risk Across Air (Outdoor Vapors)				1.5E-03		Total Risk Across Air (Outdoor Vapors)				1E+00
			Total Adult Risk Across All Media and All Exposure Routes				1.5E-03		Total Hazard Index Across All Media and All Exposure Routes				1E+00

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	8.9E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-03

Total Liver HI =	5E-02
Total Body Weight HI =	2E-04
Total Kidney HI =	1E+00
Total Developmetal HI =	2E-03
Total Lung HI =	7E-06
Total CNS HI =	5E-02
Total Endocrine System HI =	5E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	8.9E-07	NA	NA	8.9E-07	Tetrachloroethene (PCE)	Liver/Body Weight	2E-03	NA	NA	2E-03
			Trichloroethene (TCE)	5.7E-09	NA	NA	5.7E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	2E-02	NA	NA	2E-02
			Vinyl Chloride (pr + non-pr)	1.9E-06	NA	NA	1.9E-06	Vinyl Chloride	Liver	8E-04	NA	NA	8E-04
			(Total)	2.8E-06	NC	NC	2.8E-06	(Total)		2E-02	NC	NC	2E-02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-08	NA	6E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	2E-05	NA	2E-05
			Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			Trichloroethylene (TCE)	NA	7.0E-07	NA	7.0E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			Vinyl Chloride (pr + non-pr)	NC	1.6E-06	NC	1.6E-06	Vinyl Chloride	Liver	NA	3E-03	NA	3E-03
			(Total)	NC	8.9E-04	NC	8.9E-04	(Total)		NC	3E+00	NC	3E+00
							Total Risk Across Soil (Surface Only)	2.8E-06					Total Hazard Index Across Soil (Surface Only)	2E-02
							Total Risk Across Air (Outdoor Vapors)	8.9E-04					Total Risk Across Air (Outdoor Vapors)	3E+00
Notes:							Total Child Risk Across All Media and All Exposure Routes	8.9E-04					Total Hazard Index Across All Media and All Exposure Routes	3E+00

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	1.5E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-03

Total Liver HI =	1E-01
Total Body Weight HI =	2E-03
Total Kidney HI =	3E+00
Total Developmetal HI =	2E-02
Total Lung HI =	2E-05
Total CNS HI =	1E-01
Total Endocrine System HI =	1E-01

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	1.1E-08	NA	NA	1.1E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-05	NA	NA	2E-05
			Trichloroethene (TCE)	4.0E-11	NA	NA	4.0E-11	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	8E-05	NA	NA	8E-05
			Vinyl Chloride	2.1E-09	NA	NA	2.1E-09	Vinyl Chloride	Liver	8E-06	NA	NA	8E-06
			(Total)	1.3E-08	NC	NC	1.3E-08	(Total)		1E-04	NC	NC	1E-04
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	1.5E-07	NA	1.5E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NC	5.3E-08	NC	5.3E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	6.6E-05	NC	6.6E-05	(Total)		NC	2E-01	NC	2E-01

Total Risk Across Soil (Surface Only)	1.3E-08	Total Hazard Index Across Soil (Surface Only)	1E-04
Total Risk Across Air (Outdoor Vapors)	6.6E-05	Total Risk Across Air (Outdoor Vapors)	2E-01
Total Adult Risk Across All Media and All Exposure Routes	6.6E-05	Total Hazard Index Across All Media and All Exposure Routes	2E-01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.1E-04	Total Liver HI =	2E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04	Total Body Weight HI =	2E-05
		Total Kidney HI =	1E-01
		Total Developmetal HI =	8E-05
		Total Lung HI =	5E-06
		Total CNS HI =	1E-02
		Total Endocrine System HI =	1E-02

Table 9.2 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	Tetrachloroethene (PCE)	7.0E-08	NA	NA	7.0E-08	Tetrachloroethene (PCE)	Liver/Body Weight	2E-04	NA	NA	2E-04
			Trichloroethene (TCE)	2.5E-10	NA	NA	2.5E-10	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	7E-04	NA	NA	7E-04
			Vinyl Chloride (pr + non-pr)	2.6E-07	NA	NA	2.6E-07	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	3.3E-07	NC	NC	3.3E-07	(Total)		1E-03	NC	NC	1E-03
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Kidney	NA	1E-08	NA	1E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	1E-05	NA	1E-05
			Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E-01	NA	3E-01
			Trichloroethylene (TCE)	NA	2.3E-07	NA	2.3E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride (pr + non-pr)	NC	1.6E-06	NC	1.6E-06	Vinyl Chloride	Liver	NA	2E-03	NA	2E-03
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)		NC	4E-01	NC	4E-01

Total Risk Across Soil (Surface Only)	3.3E-07	Total Hazard Index Across Soil (Surface Only)	1E-03
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Risk Across Air (Outdoor Vapors)	4E-01
Total Child Risk Across All Media and All Exposure Routes	1.1E-04	Total Hazard Index Across All Media and All Exposure Routes	4E-01

Notes:

NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	6.6E-05	Total Liver HI =	4E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04	Total Body Weight HI =	2E-04
		Total Kidney HI =	3E-01
		Total Developmetal HI =	7E-04
		Total Lung HI =	1E-05
		Total CNS HI =	3E-02
		Total Endocrine System HI =	3E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	Tetrachloroethene (PCE)	Liver/Body Weight	3E-01	NA	NA	3E-01
			Trichloroethene (TCE)	1.4E-06	NA	NA	1.4E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	6.8E-08	NA	NA	6.8E-08	Vinyl Chloride	Liver	9E-05	NA	NA	9E-05
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)		4E-01	NC	NC	4E-01
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	6E-02	3E-02	3E-04	1E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	2E-02	1E-01	2E-03	1E-01
			Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	9E+01	3E+01	6E+01	2E+02
			Trichloroethene (TCE)	6.8E-03	3.3E-02	1.2E-03	4.1E-02	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.7E-01	6.7E-02	1.0E-01	3.4E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Indoor Vapors	On Site	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	4.4E-05	NA	4.4E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	5.1E-05	NC	5.1E-05	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	4E-01
Total Risk Across Groundwater	3.4E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Indoor Vapors)	5.1E-05	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Adult Risk Across All Media and All Exposure Routes	3.4E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02
Total Child Risk Across All Media and All Exposure Routes	2.0E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	5.4E-01		

Total Liver HI =	4E+02
Total Body Weight HI =	2E+02
Total Kidney HI =	2E+02
Total Developmetal HI =	2E+02
Total Blood HI =	5E+00
Total Lung HI =	1E-01
Total CNS HI =	2E+01
Total Endocrine System HI =	2E+01

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			Trichloroethene (TCE)	3.4E-06	NA	NA	3.4E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-01	NA	NA	3E-01
			Vinyl Chloride (pr + non-pr)	2.1E-06	NA	NA	2.1E-06	Vinyl Chloride	Liver	9E-04	NA	NA	9E-04
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		4E+00	NC	NC	4E+00
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-01	8E-02	8E-04	2E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	4E-02	3E-01	4E-03	3E-01
			Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	2E+02	7E+01	1E+02	4E+02
			Trichloroethene (TCE)	3.9E-03	2.0E-02	6.7E-04	2.4E-02	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	4E+02	5E+01	6E+01	5E+02
			(Total)	1.0E-01	3.9E-02	6.1E-02	2.0E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Indoor Vapors	On Site	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	2.5E-05	NA	2.5E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	3.0E-05	NC	3.0E-05	(Total)		NC	1E-01	NC	1E-01

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	4E+00
Total Risk Across Groundwater	2.0E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Indoor Vapors)	3.0E-05	Total Hazard Index Across Air (Indoor Vapors)	1E-01
Total Child Risk Across All Media and All Exposure Routes	2.0E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	3.4E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.4E-01

Total Liver HI =	9E+02
Total Body Weight HI =	4E+02
Total Kidney HI =	5E+02
Total Developmetal HI =	4E+02
Total Blood HI =	1E+01
Total Lung HI =	3E-01
Total CNS HI =	5E+01
Total Endocrine System HI =	5E+01

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.4E-05	NA	NA	1.4E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-02	NA	NA	2E-02
			Trichloroethene (TCE)	8.8E-08	NA	NA	8.8E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	6E-03	NA	NA	6E-03
			Vinyl Chloride	8.5E-09	NA	NA	8.5E-09	Vinyl Chloride	Liver	3E-05	NA	NA	3E-05
			(Total)	1.4E-05	NC	NC	1.4E-05	(Total)		3E-02	NC	NC	3E-02
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-02	8E-03	5E-05	2E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	6E-01	NC	3E-02	6E-01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	1E-02	8E-02	8E-04	9E-02
			Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	3.0E-04	1.5E-03	3.5E-05	1.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.6E-03	2.3E-03	1.8E-03	8.7E-03	(Total)		3E+01	5E+00	5E+00	4E+01
Air	Indoor Vapors	On Site	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	6.3E-06	NA	6.3E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	7.4E-06	NC	7.4E-06	(Total)		NC	2E-02	NC	2E-02

Total Risk Across Soil (Total Soil)	1.4E-05	Total Hazard Index Across Soil (Total Soil)	3E-02
Total Risk Across Groundwater	8.7E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Indoor Vapors)	7.4E-06	Total Hazard Index Across Air (Indoor Vapors)	2E-02
Total Adult Risk Across All Media and All Exposure Routes	8.7E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Liver HI =	3E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02	Total Body Weight HI =	9E+00
		Total Kidney HI =	2E+01
		Total Developmetal HI =	2E+01
		Total Blood HI =	6E-01
		Total Lung HI =	8E-02
		Total CNS HI =	3E+00
		Total Endocrine System HI =	3E+00

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	8.8E-05	NA	NA	8.8E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	5.5E-07	NA	NA	5.5E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	5E-02	NA	NA	5E-02
			Vinyl Chloride (pr + non-pr)	1.0E-06	NA	NA	1.0E-06	Vinyl Chloride	Liver	3E-04	NA	NA	3E-04
			(Total)	8.9E-05	NC	NC	8.9E-05	(Total)		2E-01	NC	NC	2E-01
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	3E-02	2E-02	9E-05	5E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+00	NC	7E-02	1E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	3E-02	2E-01	2E-03	2E-01
			Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	4.7E-04	2.4E-03	4.5E-05	2.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	5E+01	6E+00	4E+00	6E+01
			(Total)	7.1E-03	3.7E-03	2.4E-03	1.3E-02	(Total)		6E+01	1E+01	1E+01	8E+01
Air	Indoor Vapors	On Site	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	9.7E-06	NA	9.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.1E-05	NC	1.1E-05	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Total Soil)	8.9E-05	Total Hazard Index Across Soil (Total Soil)	2E-01
Total Risk Across Groundwater	1.3E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Indoor Vapors)	1.1E-05	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01
Total Adult Risk Across All Media and All Exposure Routes	8.7E-03	Total Liver HI =	8E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02	Total Body Weight HI =	2E+01
		Total Kidney HI =	5E+01
		Total Developmetal HI =	5E+01
		Total Blood HI =	1E+00
		Total Lung HI =	2E-01
		Total CNS HI =	6E+00
		Total Endocrine System HI =	6E+00

Notes:
NA = not available
pr = prorated

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	1.1E-06	NA	NA	1.1E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-02	NA	NA	3E-02
			Vinyl Chloride	5.0E-08	NA	NA	5.0E-08	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)		3E-01	NC	NC	3E-01
Air	Indoor Vapors	On Site	Chloroform	NA	2.7E-06	NA	2.7E-06	Chloroform	CNS/Liver/Kidney	NA	7E-03	NA	7E-03
			Tetrachloroethylene (PCE)	NA	2.9E-06	NA	2.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	2E-03	NA	2E-03
			Trichloroethylene (TCE)	NA	3.2E-05	NA	3.2E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	3.8E-05	NC	3.8E-05	(Total)		NC	3E-02	NC	3E-02

Total Risk Across Soil (Total Soil)	4.8E-04	Total Hazard Index Across Soil (Total Soil)	3E-01
Total Risk Across Air (Indoor Vapors)	3.8E-05	Total Hazard Index Across Air (Indoor Vapors)	3E-02
Total Adult Risk Across All Media and All Exposure Routes	5.2E-04	Total Hazard Index Across All Media and All Exposure Routes	3E-01

Notes:
NA = not available

Total Liver HI =	3E-01
Total Body Weight HI =	2E-01
Total Kidney HI =	3E-02
Total Developmetal HI =	3E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	2E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.9E-05	NA	NA	1.9E-05	Tetrachloroethene (PCE)	Liver/Body Weight	4E-02	NA	NA	4E-02
			Trichloroethene (TCE)	1.2E-07	NA	NA	1.2E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	1E-02	NA	NA	1E-02
			Vinyl Chloride	1.2E-08	NA	NA	1.2E-08	Vinyl Chloride	Liver	6E-05	NA	NA	6E-05
			(Total)	2.0E-05	NC	NC	2.0E-05	(Total)		5E-02	NC	NC	5E-02
Air	Indoor Vapors	On Site	Chloroform	NA	3.5E-07	NA	3.5E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	4.0E-07	NA	4.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	4.3E-06	NA	4.3E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	5.1E-06	NC	5.1E-06	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Soil (Total Soil)				2.0E-05		Total Hazard Index Across Soil (Total Soil)				5E-02
			Total Risk Across Air (Indoor Vapors)				5.1E-06		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Adult Risk Across All Media and All Exposure Routes				2.5E-05		Total Hazard Index Across All Media and All Exposure Routes				6E-02

Notes:
NA = not available

Total Liver HI =	6E-02
Total Body Weight HI =	4E-02
Total Kidney HI =	2E-02
Total Developmetal HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	Tetrachloroethene (PCE)	Liver/Body Weight	3E-01	NA	NA	3E-01
			Trichloroethene (TCE)	1.4E-06	NA	NA	1.4E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	6.8E-08	NA	NA	6.8E-08	Vinyl Chloride	Liver	9E-05	NA	NA	9E-05
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)		4E-01	NC	NC	4E-01
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	6E-02	3E-02	3E-04	1E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	2E-02	1E-01	2E-03	1E-01
			Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	9E+01	3E+01	6E+01	2E+02
			Trichloroethene (TCE)	6.8E-03	3.3E-02	1.2E-03	4.1E-02	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.7E-01	6.7E-02	1.0E-01	3.4E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	3E-08	NA	3E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	7E-06	NA	7E-06
			Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			Trichloroethylene (TCE)	NA	6.8E-05	NA	6.8E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-02	NA	5E-02
			Vinyl Chloride	NA	2.1E-07	NA	2.1E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.6E-03	NC	1.6E-03	(Total)		NC	1E+00	NC	1E+00

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	4E-01
Total Risk Across Groundwater	3.4E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Outdoor Vapors)	1.6E-03	Total Hazard Index Across Air (Outdoor Vapors)	1E+00
Total Adult Risk Across All Media and All Exposure Routes	3.4E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02
Total Child Risk Across All Media and All Exposure Routes	2.0E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-01		

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Total Liver HI =	4E+02
Total Body Weight HI =	2E+02
Total Kidney HI =	2E+02
Total Developmetal HI =	2E+02
Total Blood HI =	5E+00
Total Lung HI =	1E-01
Total CNS HI =	2E+01
Total Endocrine System HI =	2E+01

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			Trichloroethene (TCE)	3.4E-06	NA	NA	3.4E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-01	NA	NA	3E-01
			Vinyl Chloride (pr + non-pr)	2.1E-06	NA	NA	2.1E-06	Vinyl Chloride	Liver	9E-04	NA	NA	9E-04
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		4E+00	NC	NC	4E+00
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-01	8E-02	8E-04	2E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	4E-02	3E-01	4E-03	3E-01
			Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	2E+02	7E+01	1E+02	4E+02
			Trichloroethene (TCE)	3.9E-03	2.0E-02	6.7E-04	2.4E-02	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	4E+02	5E+01	6E+01	5E+02
			(Total)	1.0E-01	3.9E-02	6.1E-02	2.0E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-08	NA	6E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	2E-05	NA	2E-05
			Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			Trichloroethylene (TCE)	NA	4.0E-05	NA	4.0E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			Vinyl Chloride (pr + non-pr)	NA	1.2E-07	NA	1.2E-07	Vinyl Chloride	Liver	NA	3E-03	NA	3E-03
			(Total)	NC	9.3E-04	NC	9.3E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	4E+00
Total Risk Across Groundwater	2.0E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Outdoor Vapors)	9.3E-04	Total Hazard Index Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	2.0E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	3.4E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-01

Total Liver HI =	9E+02
Total Body Weight HI =	4E+02
Total Kidney HI =	5E+02
Total Developmetal HI =	4E+02
Total Blood HI =	1E+01
Total Lung HI =	3E-01
Total CNS HI =	5E+01
Total Endocrine System HI =	5E+01

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.4E-05	NA	NA	1.4E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-02	NA	NA	2E-02
			Trichloroethene (TCE)	8.8E-08	NA	NA	8.8E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	6E-03	NA	NA	6E-03
			Vinyl Chloride	8.5E-09	NA	NA	8.5E-09	Vinyl Chloride	Liver	3E-05	NA	NA	3E-05
			(Total)	1.4E-05	NC	NC	1.4E-05	(Total)		3E-02	NC	NC	3E-02
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-02	8E-03	5E-05	2E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	6E-01	NC	3E-02	6E-01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	1E-02	8E-02	8E-04	9E-02
			Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	3.0E-04	1.5E-03	3.5E-05	1.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.6E-03	2.3E-03	1.8E-03	8.7E-03	(Total)		3E+01	5E+00	5E+00	4E+01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	8.4E-06	NA	8.4E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	5.3E-08	NA	5.3E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	7.5E-05	NC	7.5E-05	(Total)		NC	2E-01	NC	2E-01

Total Risk Across Soil (Total Soil)	1.4E-05	Total Hazard Index Across Soil (Total Soil)	3E-02
Total Risk Across Groundwater	8.7E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Outdoor Vapors)	7.5E-05	Total Hazard Index Across Air (Outdoor Vapors)	2E-01
Total Adult Risk Across All Media and All Exposure Routes	8.8E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Liver HI =	3E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02	Total Body Weight HI =	9E+00
		Total Kidney HI =	2E+01
		Total Developmetal HI =	2E+01
		Total Blood HI =	6E-01
		Total Lung HI =	8E-02
		Total CNS HI =	3E+00
		Total Endocrine System HI =	3E+00

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	8.8E-05	NA	NA	8.8E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	5.5E-07	NA	NA	5.5E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	5E-02	NA	NA	5E-02
			Vinyl Chloride (pr + non-pr)	1.0E-06	NA	NA	1.0E-06	Vinyl Chloride	Liver	3E-04	NA	NA	3E-04
			(Total)	8.9E-05	NC	NC	8.9E-05	(Total)		2E-01	NC	NC	2E-01
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	3E-02	2E-02	9E-05	5E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+00	NC	7E-02	1E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	3E-02	2E-01	2E-03	2E-01
			Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	4.7E-04	2.4E-03	4.5E-05	2.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	5E+01	6E+00	4E+00	6E+01
			(Total)	7.1E-03	3.7E-03	2.4E-03	1.3E-02	(Total)		6E+01	1E+01	1E+01	8E+01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	1E-08	NA	1E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	1E-05	NA	1E-05
			Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E-01	NA	3E-01
			Trichloroethylene (TCE)	NA	1.3E-05	NA	1.3E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride (pr + non-pr)	NA	8.2E-08	NA	8.2E-08	Vinyl Chloride	Liver	NA	2E-03	NA	2E-03
			(Total)	NC	1.2E-04	NC	1.2E-04	(Total)		NC	4E-01	NC	4E-01

Total Risk Across Soil (Total Soil)	8.9E-05	Total Hazard Index Across Soil (Total Soil)	2E-01
Total Risk Across Groundwater	1.3E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Outdoor Vapors)	1.2E-04	Total Hazard Index Across Air (Outdoor Vapors)	4E-01
Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01

Total Adult Risk Across All Media and All Exposure Routes	8.8E-03	Total Liver HI =	8E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02	Total Body Weight HI =	2E+01
		Total Kidney HI =	6E+01
		Total Developmetal HI =	5E+01
		Total Blood HI =	1E+00
		Total Lung HI =	2E-01
		Total CNS HI =	6E+00
		Total Endocrine System HI =	6E+00

Notes:
NA = not available
pr = prorated

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	1.1E-06	NA	NA	1.1E-06	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-02	NA	NA	3E-02
			Vinyl Chloride	5.0E-08	NA	NA	5.0E-08	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)		3E-01	NC	NC	3E-01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	2E-08	NA	2E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	1.1E-03	NA	1.1E-03	Tetrachloroethylene (PCE)	Kidney	NA	9E-01	NA	9E-01
			Trichloroethylene (TCE)	NA	5.0E-05	NA	5.0E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride	NA	1.5E-07	NA	1.5E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.2E-03	NC	1.2E-03	(Total)		NC	9E-01	NC	9E-01
						Total Risk Across Soil (Total Soil)	4.8E-04					Total Hazard Index Across Soil (Total Soil)	3E-01
						Total Risk Across Air (Outdoor Vapors)	1.2E-03					Total Hazard Index Across Air (Outdoor Vapors)	9E-01
						Total Adult Risk Across All Media and All Exposure Routes	1.7E-03					Total Hazard Index Across All Media and All Exposure Routes	1E+00

Notes:
NA = not available

Total Liver HI =	3E-01
Total Body Weight HI =	2E-01
Total Kidney HI =	9E-01
Total Developmetal HI =	3E-02
Total Lung HI =	5E-06
Total CNS HI =	3E-02
Total Endocrine System HI =	3E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.9E-05	NA	NA	1.9E-05	Tetrachloroethene (PCE)	Liver/Body Weight	4E-02	NA	NA	4E-02
			Trichloroethene (TCE)	1.2E-07	NA	NA	1.2E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	1E-02	NA	NA	1E-02
			Vinyl Chloride	1.2E-08	NA	NA	1.2E-08	Vinyl Chloride	Liver	6E-05	NA	NA	6E-05
			(Total)	2.0E-05	NC	NC	2.0E-05	(Total)		5E-02	NC	NC	5E-02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	4E-06	NA	4E-06
			Tetrachloroethylene (PCE)	NA	4.5E-05	NA	4.5E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	5.7E-06	NA	5.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	3.6E-08	NA	3.6E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	5.1E-05	NC	5.1E-05	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Soil (Total Soil)						Total Hazard Index Across Soil (Total Soil)
							2.0E-05						5E-02
							Total Risk Across Air (Outdoor Vapors)						Total Hazard Index Across Air (Outdoor Vapors)
							5.1E-05						1E-01
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							7.0E-05						2E-01

Notes:
NA = not available

Total Liver HI =	6E-02
Total Body Weight HI =	4E-02
Total Kidney HI =	1E-01
Total Developmetal HI =	1E-02
Total Lung HI =	4E-06
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Construction Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	2.3E-05	NA	NA	2.3E-05	Tetrachloroethene (PCE)	Liver	9E-02	NA	NA	9E-02
			Trichloroethene (TCE)	5.1E-08	NA	NA	5.1E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	9E-02	NA	NA	9E-02
			Vinyl Chloride	2.4E-09	NA	NA	2.4E-09	Vinyl Chloride	Liver	2E-04	NA	NA	2E-04
			(Total)	2.3E-05	NC	NC	2.3E-05	(Total)		2E-01	NC	NC	2E-01
Sewer Water	Sewer Water	On Site	Bromomethane	NC	NA	NC	0.0E+00	Bromomethane	GI Tract	5E-05	NA	2E-04	3E-04
			Chloroform	NC	NA	NC	0.0E+00	Chloroform	Liver	6E-05	NA	8E-04	9E-04
			Tetrachloroethene (PCE)	8.2E-10	NA	6.8E-08	6.9E-08	Tetrachloroethene (PCE)	Liver	3E-06	NA	3E-04	3E-04
			(Total)	8.2E-10	NC	6.8E-08	6.9E-08	(Total)		1E-04	NC	1E-03	1E-03
Air	Sewer Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	4E-06	NA	4E-06
			Bromomethane	NA	NC	NA	0.0E+00	Bromomethane	Respiratory	NA	1E-01	NA	1E-01
			Chloroform	NA	3.7E-06	NA	3.7E-06	Chloroform	Liver	NA	1E-01	NA	1E-01
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	1E-04	NA	1E-04
			Tetrachloroethene	NA	1.5E-05	NA	1.5E-05	Tetrachloroethene	Kidney	NA	9E-01	NA	9E-01
			Trichloroethene	NA	9.1E-06	NA	9.1E-06	Trichloroethene	Neurologic (CNS)	NA	3E-02	NA	3E-02
			(Total)	NC	2.8E-05	NC	2.8E-05	(Total)		NC	1E+00	NC	1E+00
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	2E-08	NA	2E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	4E-07	NA	4E-07
			Tetrachloroethylene (PCE)	NA	1.6E-04	NA	1.6E-04	Tetrachloroethylene (PCE)	Kidney	NA	1E+01	NA	1E+01
			Trichloroethylene (TCE)	NA	7.4E-06	NA	7.4E-06	Trichloroethylene (TCE)	Neurologic (CNS)	NA	3E-02	NA	3E-02
			Vinyl Chloride	NA	2.3E-08	NA	2.3E-08	Vinyl Chloride	Liver	NA	2E-02	NA	2E-02
			(Total)	NC	1.7E-04	NC	1.7E-04	(Total)		NC	1E+01	NC	1E+01

Total Risk Across Soil (Total Soil)	2.4E-09	Total Hazard Index Across Soil (Total Soil)	2E-04
Total Risk Across Sewer Water	6.9E-08	Total Hazard Index Across Sewer Water	1E-03
Total Risk Across Air (Sewer Vapors)	2.8E-05	Total Hazard Index Across Soil Gas (Sewer Vapors)	1E+00
Total Risk Across Air (Outdoor Vapors)	1.7E-04	Total Hazard Index Across Air (Outdoor Vapors)	1E+01
Total Adult Risk Across All Media and All Exposure Routes	2.0E-04	Total Hazard Index Across All Media and All Exposure Routes	1E+01

Notes:
NA = not available

Total Liver HI =	3E-01
Total Kidney HI =	1E+01
Total Developmetal HI =	9E-02
Total Respiratory HI =	1E-01
Total CNS HI =	6E-02
Total GI Tract HI =	3E-04

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Construction Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.3E-06	NA	NA	1.3E-06	Tetrachloroethene (PCE)	Liver	1E-02	NA	NA	1E-02
			Trichloroethene (TCE)	8.3E-09	NA	NA	8.3E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	8.0E-10	NA	NA	8.0E-10	Vinyl Chloride	Liver	2E-04	NA	NA	2E-04
			(Total)	1.3E-06	NC	NC	1.3E-06	(Total)		6E-02	NC	NC	6E-02
Sewer Water	Sewer Water	On Site	Bromomethane	NC	NA	NC	0.0E+00	Bromomethane	GI Tract	3E-05	NA	2E-04	2E-04
			Chloroform	NC	NA	NC	0.0E+00	Chloroform	Liver	2E-05	NA	3E-04	3E-04
			Tetrachloroethene (PCE)	1.8E-10	NA	1.5E-08	1.5E-08	Tetrachloroethene (PCE)	Liver	2E-06	NA	2E-04	2E-04
			(Total)	1.8E-10	NC	1.5E-08	1.5E-08	(Total)		6E-05	NC	6E-04	6E-04
Air	Sewer Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	1E-06	NA	1E-06
			Bromomethane	NA	NC	NA	0.0E+00	Bromomethane	Respiratory	NA	1E-01	NA	1E-01
			Chloroform	NA	4.3E-07	NA	4.3E-07	Chloroform	Liver	NA	5E-02	NA	5E-02
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	1E-04	NA	1E-04
			Tetrachloroethene	NA	4.8E-07	NA	4.8E-07	Tetrachloroethene	Kidney	NA	8E-02	NA	8E-02
			Trichloroethene	NA	5.4E-07	NA	5.4E-07	Trichloroethene	Neurologic (CNS)	NA	6E-03	NA	6E-03
			(Total)	NC	1.5E-06	NC	1.5E-06	(Total)		NC	2E-01	NC	2E-01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	7E-09	NA	7E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	4E-07	NA	4E-07
			Tetrachloroethylene (PCE)	NA	9.6E-06	NA	9.6E-06	Tetrachloroethylene (PCE)	Kidney	NA	2E+00	NA	2E+00
			Trichloroethylene (TCE)	NA	1.2E-06	NA	1.2E-06	Trichloroethylene (TCE)	Neurologic (CNS)	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	7.5E-09	NA	7.5E-09	Vinyl Chloride	Liver	NA	2E-02	NA	2E-02
			(Total)	NC	1.1E-05	NC	1.1E-05	(Total)		NC	2E+00	NC	2E+00

Total Risk Across Soil (Total Soil)	8.0E-10	Total Hazard Index Across Soil (Total Soil)	6E-02
Total Risk Across Sewer Water	1.5E-08	Total Hazard Index Across Sewer Water	6E-04
Total Risk Across Air (Sewer Vapors)	1.5E-06	Total Hazard Index Across Soil Gas (Sewer Vapors)	2E-01
Total Risk Across Air (Outdoor Vapors)	1.1E-05	Total Hazard Index Across Air (Outdoor Vapors)	2E+00
Total Adult Risk Across All Media and All Exposure Routes	1.2E-05	Total Hazard Index Across All Media and All Exposure Routes	2E+00

Notes:
NA = not available

Total Liver HI =	1E-01
Total Kidney HI =	2E+00
Total Developmetal HI =	4E-02
Total Respiratory HI =	1E-01
Total CNS HI =	2E-02
Total GI Tract HI =	2E-04

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	Tetrachloroethene (PCE)	Liver/Body Weight	3E-01	NA	NA	3E-01
			Trichloroethene (TCE)	4.7E-08	NA	NA	4.7E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	6.8E-08	NA	NA	6.8E-08	Vinyl Chloride	Liver	9E-05	NA	NA	9E-05
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)		4E-01	NC	NC	4E-01
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	6E-02	3E-02	3E-04	1E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	2E-02	1E-01	2E-03	1E-01
			Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	9E+01	3E+01	6E+01	2E+02
			Trichloroethene (TCE)	2.2E-04	5.9E-04	3.8E-05	8.5E-04	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Indoor Vapors	On Site	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	7.6E-07	NA	7.6E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	8.2E-06	NC	8.2E-06	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	4E-01
Total Risk Across Groundwater	3.0E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Indoor Vapors)	8.2E-06	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Adult Risk Across All Media and All Exposure Routes	3.0E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02
Total Child Risk Across All Media and All Exposure Routes	1.8E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01		

Total Liver HI =	4E+02
Total Body Weight HI =	2E+02
Total Kidney HI =	2E+02
Total Developmetal HI =	2E+02
Total Blood HI =	5E+00
Total Lung HI =	1E-01
Total CNS HI =	2E+01
Total Endocrine System HI =	2E+01

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			Trichloroethene (TCE)	1.1E-07	NA	NA	1.1E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-01	NA	NA	3E-01
			Vinyl Chloride (pr + non-pr)	2.1E-06	NA	NA	2.1E-06	Vinyl Chloride	Liver	9E-04	NA	NA	9E-04
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		4E+00	NC	NC	4E+00
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-01	8E-02	8E-04	2E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	4E-02	3E-01	4E-03	3E-01
			Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	2E+02	7E+01	1E+02	4E+02
			Trichloroethene (TCE)	1.3E-04	3.5E-04	2.2E-05	5.0E-04	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	4E+02	5E+01	6E+01	5E+02
			(Total)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Indoor Vapors	On Site	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	4.4E-07	NA	4.4E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	4.8E-06	NC	4.8E-06	(Total)		NC	1E-01	NC	1E-01

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	4E+00
Total Risk Across Groundwater	1.8E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Indoor Vapors)	4.8E-06	Total Hazard Index Across Air (Indoor Vapors)	1E-01
Total Child Risk Across All Media and All Exposure Routes	1.8E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	3.0E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01

Total Liver HI =	9E+02
Total Body Weight HI =	4E+02
Total Kidney HI =	5E+02
Total Developmetal HI =	4E+02
Total Blood HI =	1E+01
Total Lung HI =	3E-01
Total CNS HI =	5E+01
Total Endocrine System HI =	5E+01

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.4E-05	NA	NA	1.4E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-02	NA	NA	2E-02
			Trichloroethene (TCE)	2.9E-09	NA	NA	2.9E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	6E-03	NA	NA	6E-03
			Vinyl Chloride	8.5E-09	NA	NA	8.5E-09	Vinyl Chloride	Liver	3E-05	NA	NA	3E-05
			(Total)	1.4E-05	NC	NC	1.4E-05	(Total)		3E-02	NC	NC	3E-02
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-02	8E-03	5E-05	2E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	6E-01	NC	3E-02	6E-01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	1E-02	8E-02	8E-04	9E-02
			Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	9.9E-06	2.7E-05	1.1E-06	3.8E-05	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.3E-03	8.6E-04	1.7E-03	6.8E-03	(Total)		3E+01	5E+00	5E+00	4E+01
Air	Indoor Vapors	On Site	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	1.1E-07	NA	1.1E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	1.2E-06	NC	1.2E-06	(Total)		NC	2E-02	NC	2E-02

Total Risk Across Soil (Total Soil)	1.4E-05	Total Hazard Index Across Soil (Total Soil)	3E-02
Total Risk Across Groundwater	6.8E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Indoor Vapors)	1.2E-06	Total Hazard Index Across Air (Indoor Vapors)	2E-02
Total Adult Risk Across All Media and All Exposure Routes	6.9E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01
Total Child Risk Across All Media and All Exposure Routes	1.0E-02	Total Liver HI =	3E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02	Total Body Weight HI =	9E+00
		Total Kidney HI =	2E+01
		Total Developmetal HI =	2E+01
		Total Blood HI =	6E-01
		Total Lung HI =	8E-02
		Total CNS HI =	3E+00
		Total Endocrine System HI =	3E+00

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	8.8E-05	NA	NA	8.8E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	1.8E-08	NA	NA	1.8E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	5E-02	NA	NA	5E-02
			Vinyl Chloride (pr + non-pr)	1.0E-06	NA	NA	1.0E-06	Vinyl Chloride	Liver	3E-04	NA	NA	3E-04
			(Total)	8.9E-05	NC	NC	8.9E-05	(Total)		2E-01	NC	NC	2E-01
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	3E-02	2E-02	9E-05	5E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+00	NC	7E-02	1E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	3E-02	2E-01	2E-03	2E-01
			Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	1.5E-05	4.1E-05	1.5E-06	5.8E-05	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	5E+01	6E+00	4E+00	6E+01
			(Total)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	(Total)		6E+01	1E+01	1E+01	8E+01
Air	Indoor Vapors	On Site	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	1.7E-07	NA	1.7E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.9E-06	NC	1.9E-06	(Total)		NC	4E-02	NC	4E-02

Total Risk Across Soil (Total Soil)	8.9E-05	Total Hazard Index Across Soil (Total Soil)	2E-01
Total Risk Across Groundwater	1.0E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Indoor Vapors)	1.9E-06	Total Hazard Index Across Air (Indoor Vapors)	4E-02
Total Child Risk Across All Media and All Exposure Routes	1.0E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01
Total Adult Risk Across All Media and All Exposure Routes	6.9E-03	Total Liver HI =	8E+01
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02	Total Body Weight HI =	2E+01
		Total Kidney HI =	5E+01
		Total Developmetal HI =	5E+01
		Total Blood HI =	1E+00
		Total Lung HI =	2E-01
		Total CNS HI =	6E+00
		Total Endocrine System HI =	6E+00

Notes:
NA = not available
pr = prorated

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	3.5E-08	NA	NA	3.5E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-02	NA	NA	3E-02
			Vinyl Chloride	5.0E-08	NA	NA	5.0E-08	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)		3E-01	NC	NC	3E-01
Air	Indoor Vapors	On Site	Chloroform	NA	2.7E-06	NA	2.7E-06	Chloroform	CNS/Liver/Kidney	NA	7E-03	NA	7E-03
			Tetrachloroethylene (PCE)	NA	2.9E-06	NA	2.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	2E-03	NA	2E-03
			Trichloroethylene (TCE)	NA	5.7E-07	NA	5.7E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	6.1E-06	NC	6.1E-06	(Total)		NC	3E-02	NC	3E-02

Total Risk Across Soil (Total Soil)	4.8E-04	Total Hazard Index Across Soil (Total Soil)	3E-01
Total Risk Across Air (Indoor Vapors)	6.1E-06	Total Hazard Index Across Air (Indoor Vapors)	3E-02
Total Adult Risk Across All Media and All Exposure Routes	4.9E-04	Total Hazard Index Across All Media and All Exposure Routes	3E-01

Notes:
NA = not available

Total Liver HI =	3E-01
Total Body Weight HI =	2E-01
Total Kidney HI =	3E-02
Total Developmetal HI =	3E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	2E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.9E-05	NA	NA	1.9E-05	Tetrachloroethene (PCE)	Liver/Body Weight	4E-02	NA	NA	4E-02
			Trichloroethene (TCE)	3.9E-09	NA	NA	3.9E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	1E-02	NA	NA	1E-02
			Vinyl Chloride	1.2E-08	NA	NA	1.2E-08	Vinyl Chloride	Liver	6E-05	NA	NA	6E-05
			(Total)	1.9E-05	NC	NC	1.9E-05	(Total)		5E-02	NC	NC	5E-02
Air	Indoor Vapors	On Site	Chloroform	NA	3.5E-07	NA	3.5E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	4.0E-07	NA	4.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	7.5E-08	NA	7.5E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	8.3E-07	NC	8.3E-07	(Total)		NC	2E-02	NC	2E-02
						Total Risk Across Soil (Total Soil)	1.9E-05					Total Hazard Index Across Soil (Total Soil)	5E-02
						Total Risk Across Air (Indoor Vapors)	8.3E-07					Total Hazard Index Across Air (Indoor Vapors)	2E-02
						Total Adult Risk Across All Media and All Exposure Routes	2.0E-05					Total Hazard Index Across All Media and All Exposure Routes	6E-02

Notes:
NA = not available

Total Liver HI =	6E-02
Total Body Weight HI =	4E-02
Total Kidney HI =	2E-02
Total Developmetal HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	Tetrachloroethene (PCE)	Liver/Body Weight	3E-01	NA	NA	3E-01
			Trichloroethene (TCE)	4.7E-08	NA	NA	4.7E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	6.8E-08	NA	NA	6.8E-08	Vinyl Chloride	Liver	9E-05	NA	NA	9E-05
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)		4E-01	NC	NC	4E-01
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	6E-02	3E-02	3E-04	1E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	2E-02	1E-01	2E-03	1E-01
			Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	9E+01	3E+01	6E+01	2E+02
			Trichloroethene (TCE)	2.2E-04	5.9E-04	3.8E-05	8.5E-04	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	3E-08	NA	3E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	7E-06	NA	7E-06
			Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			Trichloroethylene (TCE)	NA	1.2E-06	NA	1.2E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-02	NA	5E-02
			Vinyl Chloride	NA	2.1E-07	NA	2.1E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.5E-03	NC	1.5E-03	(Total)		NC	1E+00	NC	1E+00

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	4E-01
Total Risk Across Groundwater	3.0E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Outdoor Vapors)	1.5E-03	Total Hazard Index Across Air (Outdoor Vapors)	1E+00
Total Adult Risk Across All Media and All Exposure Routes	3.0E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02
Total Child Risk Across All Media and All Exposure Routes	1.8E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01		

Notes:
NA = not available

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Total Liver HI =	4E+02
Total Body Weight HI =	2E+02
Total Kidney HI =	2E+02
Total Developmetal HI =	2E+02
Total Blood HI =	5E+00
Total Lung HI =	1E-01
Total CNS HI =	2E+01
Total Endocrine System HI =	2E+01

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			Trichloroethene (TCE)	1.1E-07	NA	NA	1.1E-07	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-01	NA	NA	3E-01
			Vinyl Chloride (pr + non-pr)	2.1E-06	NA	NA	2.1E-06	Vinyl Chloride	Liver	9E-04	NA	NA	9E-04
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		4E+00	NC	NC	4E+00
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-01	8E-02	8E-04	2E-01
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	4E-02	3E-01	4E-03	3E-01
			Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	2E+02	7E+01	1E+02	4E+02
			Trichloroethene (TCE)	1.3E-04	3.5E-04	2.2E-05	5.0E-04	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	4E+02	5E+01	6E+01	5E+02
			(Total)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-08	NA	6E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	2E-05	NA	2E-05
			Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			Trichloroethylene (TCE)	NA	7.0E-07	NA	7.0E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			Vinyl Chloride (pr + non-pr)	NA	1.2E-07	NA	1.2E-07	Vinyl Chloride	Liver	NA	3E-03	NA	3E-03
			(Total)	NC	8.9E-04	NC	8.9E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	4E+00
Total Risk Across Groundwater	1.8E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Outdoor Vapors)	8.9E-04	Total Hazard Index Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	1.8E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02
Total Adult Risk Across All Media and All Exposure Routes	3.0E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01		

Total Liver HI =	9E+02
Total Body Weight HI =	4E+02
Total Kidney HI =	5E+02
Total Developmetal HI =	4E+02
Total Blood HI =	1E+01
Total Lung HI =	3E-01
Total CNS HI =	5E+01
Total Endocrine System HI =	5E+01

Notes:
NA = not available
pr = prorated

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.4E-05	NA	NA	1.4E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-02	NA	NA	2E-02
			Trichloroethene (TCE)	2.9E-09	NA	NA	2.9E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	6E-03	NA	NA	6E-03
			Vinyl Chloride	8.5E-09	NA	NA	8.5E-09	Vinyl Chloride	Liver	3E-05	NA	NA	3E-05
			(Total)	1.4E-05	NC	NC	1.4E-05	(Total)		3E-02	NC	NC	3E-02
Groundwater	Groundwater/ Vapor	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	1E-02	8E-03	5E-05	2E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	6E-01	NC	3E-02	6E-01
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	1E-02	8E-02	8E-04	9E-02
			Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	9.9E-06	2.7E-05	1.1E-06	3.8E-05	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.3E-03	8.6E-04	1.7E-03	6.8E-03	(Total)		3E+01	5E+00	5E+00	4E+01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	1.5E-07	NA	1.5E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	5.3E-08	NA	5.3E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	6.6E-05	NC	6.6E-05	(Total)		NC	2E-01	NC	2E-01

Total Risk Across Soil (Total Soil)	1.4E-05	Total Hazard Index Across Soil (Total Soil)	3E-02
Total Risk Across Groundwater	6.8E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Outdoor Vapors)	6.6E-05	Total Hazard Index Across Air (Outdoor Vapors)	2E-01
Total Adult Risk Across All Media and All Exposure Routes	6.9E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.1E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02

Total Liver HI =	3E+01
Total Body Weight HI =	9E+00
Total Kidney HI =	2E+01
Total Developmetal HI =	2E+01
Total Blood HI =	6E-01
Total Lung HI =	8E-02
Total CNS HI =	3E+00
Total Endocrine System HI =	3E+00

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	8.8E-05	NA	NA	8.8E-05	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	1.8E-08	NA	NA	1.8E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	5E-02	NA	NA	5E-02
			Vinyl Chloride (pr + non-pr)	1.0E-06	NA	NA	1.0E-06	Vinyl Chloride	Liver	3E-04	NA	NA	3E-04
			(Total)	8.9E-05	NC	NC	8.9E-05	(Total)		2E-01	NC	NC	2E-01
Groundwater	Groundwater	On Site	Acetone	NC	NC	NC	0.0E+00	Acetone	Kidney/Neurologic (CNS) [1]	3E-02	2E-02	9E-05	5E-02
			cis-1,2-Dichloroethene	NC	NC	NC	0.0E+00	cis-1,2-Dichloroethene	Blood	1E+00	NC	7E-02	1E+00
			trans-1,2-Dichloroethene	NC	NC	NC	0.0E+00	trans-1,2-Dichloroethene	Blood/Lung [2]	3E-02	2E-01	2E-03	2E-01
			Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [3]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	1.5E-05	4.1E-05	1.5E-06	5.8E-05	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [4]	5E+01	6E+00	4E+00	6E+01
			(Total)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	(Total)		6E+01	1E+01	1E+01	8E+01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	1E-08	NA	1E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	1E-05	NA	1E-05
			Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E-01	NA	3E-01
			Trichloroethylene (TCE)	NA	2.3E-07	NA	2.3E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride (pr + non-pr)	NA	8.2E-08	NA	8.2E-08	Vinyl Chloride	Liver	NA	2E-03	NA	2E-03
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)		NC	4E-01	NC	4E-01

Total Risk Across Soil (Total Soil)	8.9E-05	Total Hazard Index Across Soil (Total Soil)	2E-01
Total Risk Across Groundwater	1.0E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Hazard Index Across Air (Outdoor Vapors)	4E-01
Total Child Risk Across All Media and All Exposure Routes	1.1E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	6.9E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02

Total Liver HI =	8E+01
Total Body Weight HI =	2E+01
Total Kidney HI =	6E+01
Total Developmetal HI =	5E+01
Total Blood HI =	1E+00
Total Lung HI =	2E-01
Total CNS HI =	6E+00
Total Endocrine System HI =	6E+00

1 For Acetone, effects on the Kidney are for oral and dermal routes; effects on the CNS are only for the inhalation route.
2 For trans-1,2-Dichloroethene, effects on the Blood are for oral and dermal routes; effects on the Lung are only for the inhalation route.
3 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
4 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	Tetrachloroethene (PCE)	Liver/Body Weight	2E-01	NA	NA	2E-01
			Trichloroethene (TCE)	3.5E-08	NA	NA	3.5E-08	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	3E-02	NA	NA	3E-02
			Vinyl Chloride	5.0E-08	NA	NA	5.0E-08	Vinyl Chloride	Liver	7E-05	NA	NA	7E-05
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)		3E-01	NC	NC	3E-01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	2E-08	NA	2E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	5E-06	NA	5E-06
			Tetrachloroethylene (PCE)	NA	1.1E-03	NA	1.1E-03	Tetrachloroethylene (PCE)	Kidney	NA	9E-01	NA	9E-01
			Trichloroethylene (TCE)	NA	8.8E-07	NA	8.8E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			Vinyl Chloride	NA	1.5E-07	NA	1.5E-07	Vinyl Chloride	Liver	NA	1E-03	NA	1E-03
			(Total)	NC	1.1E-03	NC	1.1E-03	(Total)		NC	9E-01	NC	9E-01
						Total Risk Across Soil (Total Soil)	4.8E-04					Total Hazard Index Across Soil (Total Soil)	3E-01
						Total Risk Across Air (Outdoor Vapors)	1.1E-03					Total Hazard Index Across Air (Outdoor Vapors)	9E-01
						Total Adult Risk Across All Media and All Exposure Routes	1.6E-03					Total Hazard Index Across All Media and All Exposure Routes	1E+00

Notes:
NA = not available

Total Liver HI =	3E-01
Total Body Weight HI =	2E-01
Total Kidney HI =	9E-01
Total Developmetal HI =	3E-02
Total Lung HI =	5E-06
Total CNS HI =	3E-02
Total Endocrine System HI =	3E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.9E-05	NA	NA	1.9E-05	Tetrachloroethene (PCE)	Liver/Body Weight	4E-02	NA	NA	4E-02
			Trichloroethene (TCE)	3.9E-09	NA	NA	3.9E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	1E-02	NA	NA	1E-02
			Vinyl Chloride	1.2E-08	NA	NA	1.2E-08	Vinyl Chloride	Liver	6E-05	NA	NA	6E-05
			(Total)	1.9E-05	NC	NC	1.9E-05	(Total)		5E-02	NC	NC	5E-02
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	6E-09	NA	6E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Lung	NA	4E-06	NA	4E-06
			Tetrachloroethylene (PCE)	NA	4.5E-05	NA	4.5E-05	Tetrachloroethylene (PCE)	Kidney	NA	1E-01	NA	1E-01
			Trichloroethylene (TCE)	NA	9.9E-08	NA	9.9E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	3.6E-08	NA	3.6E-08	Vinyl Chloride	Liver	NA	9E-04	NA	9E-04
			(Total)	NC	4.5E-05	NC	4.5E-05	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Soil (Total Soil)	1.9E-05					Total Hazard Index Across Soil (Total Soil)	5E-02
							Total Risk Across Air (Outdoor Vapors)	4.5E-05					Total Hazard Index Across Air (Outdoor Vapors)	1E-01
							Total Adult Risk Across All Media and All Exposure Routes	6.5E-05					Total Hazard Index Across All Media and All Exposure Routes	2E-01

Notes:
NA = not available

Total Liver HI =	6E-02
Total Body Weight HI =	4E-02
Total Kidney HI =	1E-01
Total Developmetal HI =	1E-02
Total Lung HI =	4E-06
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Construction Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	2.3E-05	NA	NA	2.3E-05	Tetrachloroethene (PCE)	Liver	9E-02	NA	NA	9E-02
			Trichloroethene (TCE)	1.7E-09	NA	NA	1.7E-09	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	9E-02	NA	NA	9E-02
			Vinyl Chloride	2.4E-09	NA	NA	2.4E-09	Vinyl Chloride	Liver	2E-04	NA	NA	2E-04
			(Total)	2.3E-05	NC	NC	2.3E-05	(Total)		2E-01	NC	NC	2E-01
Sewer Water	Sewer Water	On Site	Bromomethane	NC	NA	NC	0.0E+00	Bromomethane	GI Tract	5E-05	NA	2E-04	3E-04
			Chloroform	NC	NA	NC	0.0E+00	Chloroform	Liver	6E-05	NA	8E-04	9E-04
			Tetrachloroethene (PCE)	8.2E-10	NA	6.8E-08	6.9E-08	Tetrachloroethene (PCE)	Liver	3E-06	NA	3E-04	3E-04
			(Total)	8.2E-10	NC	6.8E-08	6.9E-08	(Total)		1E-04	NC	1E-03	1E-03
Air	Sewer Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	4E-06	NA	4E-06
			Bromomethane	NA	NC	NA	0.0E+00	Bromomethane	Respiratory	NA	1E-01	NA	1E-01
			Chloroform	NA	3.7E-06	NA	3.7E-06	Chloroform	Liver	NA	1E-01	NA	1E-01
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	1E-04	NA	1E-04
			Tetrachloroethene	NA	1.5E-05	NA	1.5E-05	Tetrachloroethene	Kidney	NA	9E-01	NA	9E-01
			Trichloroethene	NA	1.6E-07	NA	1.6E-07	Trichloroethene	Neurologic (CNS)	NA	3E-02	NA	3E-02
			(Total)	NC	1.9E-05	NC	1.9E-05	(Total)		NC	1E+00	NC	1E+00
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	2E-08	NA	2E-08
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	NC
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	4E-07	NA	4E-07
			Tetrachloroethylene (PCE)	NA	1.6E-04	NA	1.6E-04	Tetrachloroethylene (PCE)	Kidney	NA	1E+01	NA	1E+01
			Trichloroethylene (TCE)	NA	1.3E-07	NA	1.3E-07	Trichloroethylene (TCE)	Neurologic (CNS)	NA	3E-02	NA	3E-02
			Vinyl Chloride	NA	2.3E-08	NA	2.3E-08	Vinyl Chloride	Liver	NA	2E-02	NA	2E-02
			(Total)	NC	1.7E-04	NC	1.7E-04	(Total)		NC	1E+01	NC	1E+01

Total Risk Across Soil (Total Soil)	2.4E-09
Total Risk Across Sewer Water	6.9E-08
Total Risk Across Air (Sewer Vapors)	1.9E-05
Total Risk Across Air (Outdoor Vapors)	1.7E-04
Total Adult Risk Across All Media and All Exposure Routes	1.8E-04

Total Hazard Index Across Soil (Total Soil)	2E-04
Total Hazard Index Across Sewer Water	1E-03
Total Hazard Index Across Soil Gas (Sewer Vapors)	1E+00
Total Hazard Index Across Air (Outdoor Vapors)	1E+01
Total Hazard Index Across All Media and All Exposure Routes	1E+01

Notes:
NA = not available

Total Liver HI =	3E-01
Total Kidney HI =	1E+01
Total Developmetal HI =	9E-02
Total Respiratory HI =	1E-01
Total CNS HI =	6E-02
Total GI Tract HI =	3E-04

Table 9.3 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Construction Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.3E-06	NA	NA	1.3E-06	Tetrachloroethene (PCE)	Liver	1E-02	NA	NA	1E-02
			Trichloroethene (TCE)	2.7E-10	NA	NA	2.7E-10	Trichloroethene (TCE)	Liver/Kidneys/Fetus (Developmental)	4E-02	NA	NA	4E-02
			Vinyl Chloride	8.0E-10	NA	NA	8.0E-10	Vinyl Chloride	Liver	2E-04	NA	NA	2E-04
			(Total)	1.3E-06	NC	NC	1.3E-06	(Total)		6E-02	NC	NC	6E-02
Sewer Water	Sewer Water	On Site	Bromomethane	NC	NA	NC	0.0E+00	Bromomethane	GI Tract	3E-05	NA	2E-04	2E-04
			Chloroform	NC	NA	NC	0.0E+00	Chloroform	Liver	2E-05	NA	3E-04	3E-04
			Tetrachloroethene (PCE)	1.8E-10	NA	1.5E-08	1.5E-08	Tetrachloroethene (PCE)	Liver	2E-06	NA	2E-04	2E-04
			(Total)	1.8E-10	NC	1.5E-08	1.5E-08	(Total)		6E-05	NC	6E-04	6E-04
Air	Sewer Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	1E-06	NA	1E-06
			Bromomethane	NA	NC	NA	0.0E+00	Bromomethane	Respiratory	NA	1E-01	NA	1E-01
			Chloroform	NA	4.3E-07	NA	4.3E-07	Chloroform	Liver	NA	5E-02	NA	5E-02
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	1E-04	NA	1E-04
			Tetrachloroethene	NA	4.8E-07	NA	4.8E-07	Tetrachloroethene	Kidney	NA	8E-02	NA	8E-02
			Trichloroethene	NA	9.5E-09	NA	9.5E-09	Trichloroethene	Neurologic (CNS)	NA	6E-03	NA	6E-03
			(Total)	NC	9.2E-07	NC	9.2E-07	(Total)		NC	2E-01	NC	2E-01
Air	Outdoor Vapors	On Site	Acetone	NA	NC	NA	0.0E+00	Acetone	Neurologic (CNS)	NA	7E-09	NA	7E-09
			cis-1,2-Dichloroethene	NA	NC	NA	0.0E+00	cis-1,2-Dichloroethene	NA	NA	NC	NA	0E+00
			trans-1,2-Dichloroethene	NA	NC	NA	0.0E+00	trans-1,2-Dichloroethene	Liver	NA	4E-07	NA	4E-07
			Tetrachloroethylene (PCE)	NA	9.6E-06	NA	9.6E-06	Tetrachloroethylene (PCE)	Kidney	NA	2E+00	NA	2E+00
			Trichloroethylene (TCE)	NA	2.1E-08	NA	2.1E-08	Trichloroethylene (TCE)	Neurologic (CNS)	NA	1E-02	NA	1E-02
			Vinyl Chloride	NA	7.5E-09	NA	7.5E-09	Vinyl Chloride	Liver	NA	2E-02	NA	2E-02
			(Total)	NC	9.6E-06	NC	9.6E-06	(Total)		NC	2E+00	NC	2E+00

Total Risk Across Soil (Total Soil)	8.0E-10	Total Hazard Index Across Soil (Total Soil)	6E-02
Total Risk Across Sewer Water	1.5E-08	Total Hazard Index Across Sewer Water	6E-04
Total Risk Across Air (Sewer Vapors)	9.2E-07	Total Hazard Index Across Soil Gas (Sewer Vapors)	2E-01
Total Risk Across Air (Outdoor Vapors)	9.6E-06	Total Hazard Index Across Air (Outdoor Vapors)	2E+00
Total Adult Risk Across All Media and All Exposure Routes	1.1E-05	Total Hazard Index Across All Media and All Exposure Routes	2E+00

Notes:
NA = not available

Total Liver HI =	1E-01
Total Kidney HI =	2E+00
Total Developmetal HI =	4E-02
Total Respiratory HI =	1E-01
Total CNS HI =	2E-02
Total GI Tract HI =	2E-04

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	4.4E-05	NA	4.4E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	5.1E-05	NC	5.1E-05	(Total)		NC	4E-02	NC	4E-02
			Total Risk Across Air (Indoor Vapors)				5.1E-05		Total Hazard Index Across Air (Indoor Vapors)				4E-02
			Total Adult Risk Across All Media and All Exposure Routes				5.1E-05		Total Hazard Index Across All Media and All Exposure Routes				4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	3.0E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	8.1E-05

Total Liver HI =	4E-02
Total Kidney HI =	1E-02
Total CNS HI =	4E-02
Total Endocrine System HI =	3E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	2.5E-05	NA	2.5E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	3.0E-05	NC	3.0E-05	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Air (Indoor Vapors)	3.0E-05					Total Hazard Index Across Air (Indoor Vapors)	1E-01
							Total Child Risk Across All Media and All Exposure Routes	3.0E-05					Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	5.1E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	8.1E-05

Total Liver HI =	9E-02
Total Kidney HI =	3E-02
Total CNS HI =	9E-02
Total Endocrine System HI =	7E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	6.3E-06	NA	6.3E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	7.4E-06	NC	7.4E-06	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				7.4E-06		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Adult Risk Across All Media and All Exposure Routes				7.4E-06		Total Hazard Index Across All Media and All Exposure Routes				2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.1E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-05

Total Liver HI =	1E-02
Total Kidney HI =	5E-03
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	9.7E-06	NA	9.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.1E-05	NC	1.1E-05	(Total)		NC	4E-02	NC	4E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.1E-05						4E-02
Notes:							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.1E-05						4E-02

NA = not available

Total Adult Risk Across All Media and All Exposure Routes	7.4E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.9E-05

Total Liver HI =	3E-02
Total Kidney HI =	1E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	3E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	3.6E-06	NA	3.6E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	3.9E-06	NA	3.9E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	7.6E-07	NA	7.6E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	8.2E-06	NC	8.2E-06	(Total)		NC	4E-02	NC	4E-02
			Total Risk Across Air (Indoor Vapors)				8.2E-06		Total Hazard Index Across Air (Indoor Vapors)				4E-02
			Total Adult Risk Across All Media and All Exposure Routes				8.2E-06		Total Hazard Index Across All Media and All Exposure Routes				4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	4.8E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.3E-05

Total Liver HI =	4E-02
Total Kidney HI =	1E-02
Total CNS HI =	4E-02
Total Endocrine System HI =	3E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	2.3E-06	NA	2.3E-06	Tetrachloroethylene (PCE)	Kidney	NA	7E-03	NA	7E-03
			Trichloroethylene (TCE)	NA	4.4E-07	NA	4.4E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-02	NA	7E-02
			(Total)	NC	4.8E-06	NC	4.8E-06	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Air (Indoor Vapors)	4.8E-06					Total Hazard Index Across Air (Indoor Vapors)	1E-01
							Total Child Risk Across All Media and All Exposure Routes	4.8E-06					Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	8.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.3E-05

Total Liver HI =	9E-02
Total Kidney HI =	3E-02
Total CNS HI =	9E-02
Total Endocrine System HI =	7E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	5.2E-07	NA	5.2E-07	Chloroform	CNS/Liver/Kidney	NA	4E-03	NA	4E-03
			Tetrachloroethylene (PCE)	NA	5.9E-07	NA	5.9E-07	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	1.1E-07	NA	1.1E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	1.2E-06	NC	1.2E-06	(Total)		NC	2E-02	NC	2E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.2E-06						2E-02
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.2E-06						2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.9E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	3.1E-06

Total Liver HI =	1E-02
Total Kidney HI =	5E-03
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.4 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	Chloroform	NA	8.0E-07	NA	8.0E-07	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	9.2E-07	NA	9.2E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	1.7E-07	NA	1.7E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.9E-06	NC	1.9E-06	(Total)		NC	4E-02	NC	4E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.9E-06						4E-02
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.9E-06						4E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	1.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	3.1E-06

Total Liver HI =	3E-02
Total Kidney HI =	1E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	3E-02

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	2.4E-06	NA	2.4E-06	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	1.2E-05	NA	1.2E-05	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	2.0E-05	NA	2.0E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-01	NA	2E-01
			(Total)	NC	3.5E-05	NC	3.5E-05	(Total)		NC	2E-01	NC	2E-01
							Total Risk Across Air (Indoor Vapors)	3.5E-05					Total Hazard Index Across Air (Indoor Vapors)	2E-01
							Total Adult Risk Across All Media and All Exposure Routes	3.5E-05					Total Hazard Index Across All Media and All Exposure Routes	2E-01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.0E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-05

Total Liver HI =	2E-01
Total Kidney HI =	1E-02
Total CNS HI =	2E-01
Total Endocrine System HI =	2E-01

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	1.4E-06	NA	1.4E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	7.1E-06	NA	7.1E-06	Tetrachloroethylene (PCE)	Kidney	NA	6E-03	NA	6E-03
			Trichloroethylene (TCE)	NA	1.2E-05	NA	1.2E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-01	NA	4E-01
			(Total)	NC	2.0E-05	NC	2.0E-05	(Total)		NC	5E-01	NC	5E-01
							Total Risk Across Air (Indoor Vapors)	2.0E-05					Total Hazard Index Across Air (Indoor Vapors)	5E-01
							Total Child Risk Across All Media and All Exposure Routes	2.0E-05					Total Hazard Index Across All Media and All Exposure Routes	5E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	3.5E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-05

Total Liver HI =	5E-01
Total Kidney HI =	3E-02
Total CNS HI =	5E-01
Total Endocrine System HI =	4E-01

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	3.1E-07	NA	3.1E-07	Chloroform	CNS/Liver/Kidney	NA	3E-03	NA	3E-03
			Tetrachloroethylene (PCE)	NA	1.7E-06	NA	1.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	3.8E-06	NA	3.8E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	5.8E-06	NC	5.8E-06	(Total)		NC	4E-02	NC	4E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							5.8E-06						4E-02
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							5.8E-06						4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	9.0E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.5E-05

Total Liver HI =	4E-02
Total Kidney HI =	5E-03
Total CNS HI =	4E-02
Total Endocrine System HI =	4E-02

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	4.9E-07	NA	4.9E-07	Chloroform	CNS/Liver/Kidney	NA	8E-03	NA	8E-03
			Tetrachloroethylene (PCE)	NA	2.6E-06	NA	2.6E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	5.9E-06	NA	5.9E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	9E-02	NA	9E-02
			(Total)	NC	9.0E-06	NC	9.0E-06	(Total)		NC	1E-01	NC	1E-01
			Total Risk Across Air (Indoor Vapors)				9.0E-06		Total Hazard Index Across Air (Indoor Vapors)				1E-01
			Total Child Risk Across All Media and All Exposure Routes				9.0E-06		Total Hazard Index Across All Media and All Exposure Routes				1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	5.8E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.5E-05

Total Liver HI =	1E-01
Total Kidney HI =	1E-02
Total CNS HI =	1E-01
Total Endocrine System HI =	9E-02

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	2.4E-06	NA	2.4E-06	Chloroform	CNS/Liver/Kidney	NA	9E-03	NA	9E-03
			Tetrachloroethylene (PCE)	NA	1.2E-05	NA	1.2E-05	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	3.6E-07	NA	3.6E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-01	NA	2E-01
			(Total)	NC	1.5E-05	NC	1.5E-05	(Total)		NC	2E-01	NC	2E-01
			Total Risk Across Air (Indoor Vapors)				1.5E-05		Total Hazard Index Across Air (Indoor Vapors)				2E-01
			Total Adult Risk Across All Media and All Exposure Routes				1.5E-05		Total Hazard Index Across All Media and All Exposure Routes				2E-01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	8.7E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-05

Total Liver HI =	2E-01
Total Kidney HI =	1E-02
Total CNS HI =	2E-01
Total Endocrine System HI =	2E-01

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	1.4E-06	NA	1.4E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	7.1E-06	NA	7.1E-06	Tetrachloroethylene (PCE)	Kidney	NA	6E-03	NA	6E-03
			Trichloroethylene (TCE)	NA	2.1E-07	NA	2.1E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-01	NA	4E-01
			(Total)	NC	8.7E-06	NC	8.7E-06	(Total)		NC	5E-01	NC	5E-01
							Total Risk Across Air (Indoor Vapors)	8.7E-06					Total Hazard Index Across Air (Indoor Vapors)	5E-01
							Total Child Risk Across All Media and All Exposure Routes	8.7E-06					Total Hazard Index Across All Media and All Exposure Routes	5E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	1.5E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-05

Total Liver HI =	5E-01
Total Kidney HI =	3E-02
Total CNS HI =	5E-01
Total Endocrine System HI =	4E-01

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	3.1E-07	NA	3.1E-07	Chloroform	CNS/Liver/Kidney	NA	3E-03	NA	3E-03
			Tetrachloroethylene (PCE)	NA	1.7E-06	NA	1.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	1E-03	NA	1E-03
			Trichloroethylene (TCE)	NA	6.6E-08	NA	6.6E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	2.1E-06	NC	2.1E-06	(Total)		NC	4E-02	NC	4E-02
			Total Risk Across Air (Indoor Vapors)				2.1E-06		Total Hazard Index Across Air (Indoor Vapors)				4E-02
			Total Adult Risk Across All Media and All Exposure Routes				2.1E-06		Total Hazard Index Across All Media and All Exposure Routes				4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	3.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	5.3E-06

Total Liver HI =	4E-02
Total Kidney HI =	5E-03
Total CNS HI =	4E-02
Total Endocrine System HI =	4E-02

Table 9.5 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	Chloroform	NA	4.9E-07	NA	4.9E-07	Chloroform	CNS/Liver/Kidney	NA	8E-03	NA	8E-03
			Tetrachloroethylene (PCE)	NA	2.6E-06	NA	2.6E-06	Tetrachloroethylene (PCE)	Kidney	NA	3E-03	NA	3E-03
			Trichloroethylene (TCE)	NA	1.0E-07	NA	1.0E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	9E-02	NA	9E-02
			(Total)	NC	3.2E-06	NC	3.2E-06	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							3.2E-06						1E-01
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							3.2E-06						1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	2.1E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	5.3E-06

Total Liver HI =	1E-01
Total Kidney HI =	1E-02
Total CNS HI =	1E-01
Total Endocrine System HI =	9E-02

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	9.1E-06	NA	9.1E-06	Chloroform	CNS/Liver/Kidney	NA	3E-02	NA	3E-02
			Tetrachloroethylene (PCE)	NA	3.4E-07	NA	3.4E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	1.1E-05	NA	1.1E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-03	NA	7E-03
			(Total)	NC	2.0E-05	NC	2.0E-05	(Total)		NC	3E-02	NC	3E-02
			Total Risk Across Air (Indoor Vapors)				2.0E-05		Total Hazard Index Across Air (Indoor Vapors)				3E-02
			Total Adult Risk Across All Media and All Exposure Routes				2.0E-05		Total Hazard Index Across All Media and All Exposure Routes				3E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.2E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.2E-05

Total Liver HI =	3E-02
Total Kidney HI =	3E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	7E-03

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	5.3E-06	NA	5.3E-06	Chloroform	CNS/Liver/Kidney	NA	6E-02	NA	6E-02
			Tetrachloroethylene (PCE)	NA	2.0E-07	NA	2.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	6E-04	NA	6E-04
			Trichloroethylene (TCE)	NA	6.4E-06	NA	6.4E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	1.2E-05	NC	1.2E-05	(Total)		NC	8E-02	NC	8E-02
			Total Risk Across Air (Indoor Vapors)				1.2E-05		Total Hazard Index Across Air (Indoor Vapors)				8E-02
			Total Child Risk Across All Media and All Exposure Routes				1.2E-05		Total Hazard Index Across All Media and All Exposure Routes				8E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	2.0E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.2E-05

Total Liver HI =	8E-02
Total Kidney HI =	6E-02
Total CNS HI =	8E-02
Total Endocrine System HI =	2E-02

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	1.3E-06	NA	1.3E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	6.2E-08	NA	6.2E-08	Tetrachloroethylene (PCE)	Kidney	NA	1E-04	NA	1E-04
			Trichloroethylene (TCE)	NA	1.8E-06	NA	1.8E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-03	NA	3E-03
			(Total)	NC	3.2E-06	NC	3.2E-06	(Total)		NC	1E-02	NC	1E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							3.2E-06						1E-02
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							3.2E-06						1E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	4.9E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	8.1E-06

Total Liver HI =	1E-02
Total Kidney HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	3E-03

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	9.6E-08	NA	9.6E-08	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	2.7E-06	NA	2.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-03	NA	7E-03
			(Total)	NC	4.9E-06	NC	4.9E-06	(Total)		NC	3E-02	NC	3E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							4.9E-06						3E-02
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							4.9E-06						3E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	3.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	8.1E-06

Total Liver HI =	3E-02
Total Kidney HI =	2E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	7E-03

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	9.1E-06	NA	9.1E-06	Chloroform	CNS/Liver/Kidney	NA	3E-02	NA	3E-02
			Tetrachloroethylene (PCE)	NA	3.4E-07	NA	3.4E-07	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	1.9E-07	NA	1.9E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-03	NA	7E-03
			(Total)	NC	9.7E-06	NC	9.7E-06	(Total)		NC	3E-02	NC	3E-02
			Total Risk Across Air (Indoor Vapors)				9.7E-06		Total Hazard Index Across Air (Indoor Vapors)				3E-02
			Total Adult Risk Across All Media and All Exposure Routes				9.7E-06		Total Hazard Index Across All Media and All Exposure Routes				3E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	5.6E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.5E-05

Total Liver HI =	3E-02
Total Kidney HI =	3E-02
Total CNS HI =	3E-02
Total Endocrine System HI =	7E-03

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	5.3E-06	NA	5.3E-06	Chloroform	CNS/Liver/Kidney	NA	6E-02	NA	6E-02
			Tetrachloroethylene (PCE)	NA	2.0E-07	NA	2.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	6E-04	NA	6E-04
			Trichloroethylene (TCE)	NA	1.1E-07	NA	1.1E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	5.6E-06	NC	5.6E-06	(Total)		NC	8E-02	NC	8E-02
							Total Risk Across Air (Indoor Vapors)	5.6E-06				Total Hazard Index Across Air (Indoor Vapors)	8E-02
							Total Child Risk Across All Media and All Exposure Routes	5.6E-06				Total Hazard Index Across All Media and All Exposure Routes	8E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	9.7E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.5E-05

Total Liver HI =	8E-02
Total Kidney HI =	6E-02
Total CNS HI =	8E-02
Total Endocrine System HI =	2E-02

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	1.3E-06	NA	1.3E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	6.2E-08	NA	6.2E-08	Tetrachloroethylene (PCE)	Kidney	NA	1E-04	NA	1E-04
			Trichloroethylene (TCE)	NA	3.1E-08	NA	3.1E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-03	NA	3E-03
			(Total)	NC	1.4E-06	NC	1.4E-06	(Total)		NC	1E-02	NC	1E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.4E-06						1E-02
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.4E-06						1E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	3.6E-06

Total Liver HI =	1E-02
Total Kidney HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	3E-03

Table 9.6 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	Chloroform	NA	2.1E-06	NA	2.1E-06	Chloroform	CNS/Liver/Kidney	NA	2E-02	NA	2E-02
			Tetrachloroethylene (PCE)	NA	9.6E-08	NA	9.6E-08	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	4.8E-08	NA	4.8E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	7E-03	NA	7E-03
			(Total)	NC	2.2E-06	NC	2.2E-06	(Total)		NC	3E-02	NC	3E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							2.2E-06						3E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes: 2.2E-06

Total Hazard Index Across All Media and All Exposure Routes: 3E-02

Total Adult Risk Across All Media and All Exposure Routes: 1.4E-06

Total Adult and Child Risk Across All Media and All Exposure Routes: 3.6E-06

Total Liver HI = 3E-02
Total Kidney HI = 2E-02
Total CNS HI = 3E-02
Total Endocrine System HI = 7E-03

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	3.0E-07	NA	3.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	2E-04	NA	2E-04
			Trichloroethylene (TCE)	NA	6.8E-05	NA	6.8E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	6.8E-05	NC	6.8E-05	(Total)		NC	5E-02	NC	5E-02
							Total Risk Across Air (Indoor Vapors)	6.8E-05					Total Hazard Index Across Air (Indoor Vapors)	5E-02
							Total Adult Risk Across All Media and All Exposure Routes	6.8E-05					Total Hazard Index Across All Media and All Exposure Routes	5E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	4.0E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	1.1E-04

Total Liver HI =	4E-02
Total Kidney HI =	2E-04
Total CNS HI =	4E-02
Total Endocrine System HI =	4E-02

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	1.7E-07	NA	1.7E-07	Tetrachloroethylene (PCE)	Kidney	NA	6E-04	NA	6E-04
			Trichloroethylene (TCE)	NA	3.9E-05	NA	3.9E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			(Total)	NC	4.0E-05	NC	4.0E-05	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Air (Indoor Vapors)	4.0E-05					Total Hazard Index Across Air (Indoor Vapors)	1E-01
							Total Child Risk Across All Media and All Exposure Routes	4.0E-05					Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	6.8E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	1.1E-04

Total Liver HI =	1E-01
Total Kidney HI =	6E-04
Total CNS HI =	1E-01
Total Endocrine System HI =	1E-01

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	5.5E-08	NA	5.5E-08	Tetrachloroethylene (PCE)	Kidney	NA	1E-04	NA	1E-04
			Trichloroethylene (TCE)	NA	5.0E-06	NA	5.0E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	9E-03	NA	9E-03
			(Total)	NC	5.0E-06	NC	5.0E-06	(Total)		NC	9E-03	NC	9E-03
							Total Risk Across Air (Indoor Vapors)	5.0E-06					Total Hazard Index Across Air (Indoor Vapors)	9E-03
							Total Adult Risk Across All Media and All Exposure Routes	5.0E-06					Total Hazard Index Across All Media and All Exposure Routes	9E-03

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	7.8E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.3E-05

Total Liver HI =	9E-03
Total Kidney HI =	1E-04
Total CNS HI =	9E-03
Total Endocrine System HI =	9E-03

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	8.6E-08	NA	8.6E-08	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	7.7E-06	NA	7.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	7.8E-06	NC	7.8E-06	(Total)		NC	2E-02	NC	2E-02
							Total Risk Across Air (Indoor Vapors)	7.8E-06					Total Hazard Index Across Air (Indoor Vapors)	2E-02
							Total Child Risk Across All Media and All Exposure Routes	7.8E-06					Total Hazard Index Across All Media and All Exposure Routes	2E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	5.0E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.3E-05

Total Liver HI =	2E-02
Total Kidney HI =	3E-04
Total CNS HI =	2E-02
Total Endocrine System HI =	2E-02

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	3.0E-07	NA	3.0E-07	Tetrachloroethylene (PCE)	Kidney	NA	2E-04	NA	2E-04
			Trichloroethylene (TCE)	NA	1.2E-06	NA	1.2E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	1.5E-06	NC	1.5E-06	(Total)		NC	5E-02	NC	5E-02
			Total Risk Across Air (Indoor Vapors)				1.5E-06		Total Hazard Index Across Air (Indoor Vapors)				5E-02
			Total Adult Risk Across All Media and All Exposure Routes				1.5E-06		Total Hazard Index Across All Media and All Exposure Routes				5E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	8.6E-07
Total Adult and Child Risk Across All Media and All Exposure Routes	2.3E-06

Total Liver HI =	4E-02
Total Kidney HI =	2E-04
Total CNS HI =	4E-02
Total Endocrine System HI =	4E-02

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	1.7E-07	NA	1.7E-07	Tetrachloroethylene (PCE)	Kidney	NA	6E-04	NA	6E-04
			Trichloroethylene (TCE)	NA	6.9E-07	NA	6.9E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-01	NA	1E-01
			(Total)	NC	8.6E-07	NC	8.6E-07	(Total)		NC	1E-01	NC	1E-01
							Total Risk Across Air (Indoor Vapors)	8.6E-07					Total Hazard Index Across Air (Indoor Vapors)	1E-01
							Total Child Risk Across All Media and All Exposure Routes	8.6E-07					Total Hazard Index Across All Media and All Exposure Routes	1E-01

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	1.5E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	2.3E-06

Total Liver HI =	1E-01
Total Kidney HI =	6E-04
Total CNS HI =	1E-01
Total Endocrine System HI =	1E-01

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	5.5E-08	NA	5.5E-08	Tetrachloroethylene (PCE)	Kidney	NA	1E-04	NA	1E-04
			Trichloroethylene (TCE)	NA	8.7E-08	NA	8.7E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	9E-03	NA	9E-03
			(Total)	NC	1.4E-07	NC	1.4E-07	(Total)		NC	9E-03	NC	9E-03
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.4E-07						9E-03
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.4E-07						9E-03

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.2E-07
Total Adult and Child Risk Across All Media and All Exposure Routes	3.6E-07

Total Liver HI =	9E-03
Total Kidney HI =	1E-04
Total CNS HI =	9E-03
Total Endocrine System HI =	9E-03

Table 9.7 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	Chloroform	NA	NC	NA	0.0E+00	Chloroform	CNS/Liver/Kidney	NA	NC	NA	0E+00
			Tetrachloroethylene (PCE)	NA	8.6E-08	NA	8.6E-08	Tetrachloroethylene (PCE)	Kidney	NA	3E-04	NA	3E-04
			Trichloroethylene (TCE)	NA	1.4E-07	NA	1.4E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	2.2E-07	NC	2.2E-07	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				2.2E-07		Total Hazard Index Across Air (Indoor Vapors)				2E-02
Notes:			Total Child Risk Across All Media and All Exposure Routes				2.2E-07		Total Hazard Index Across All Media and All Exposure Routes				2E-02

NA = not available

Total Adult Risk Across All Media and All Exposure Routes	1.4E-07
Total Adult and Child Risk Across All Media and All Exposure Routes	3.6E-07

Total Liver HI =	2E-02
Total Kidney HI =	3E-04
Total CNS HI =	2E-02
Total Endocrine System HI =	2E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	2.9E-07	NA	2.9E-07	Chloroform	CNS/Liver/Kidney	NA	8E-04	NA	8E-04
			Tetrachloroethylene (PCE)	NA	2.2E-05	NA	2.2E-05	Tetrachloroethylene (PCE)	Kidney	NA	2E-02	NA	2E-02
			Trichloroethylene (TCE)	NA	2.9E-05	NA	2.9E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	5.1E-05	NC	5.1E-05	(Total)		NC	4E-02	NC	4E-02
			Total Risk Across Air (Indoor Vapors)				5.1E-05		Total Hazard Index Across Air (Indoor Vapors)				4E-02
			Total Adult Risk Across All Media and All Exposure Routes				5.1E-05		Total Hazard Index Across All Media and All Exposure Routes				4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	3.0E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	8.0E-05

Total Liver HI =	2E-02
Total Kidney HI =	2E-02
Total CNS HI =	2E-02
Total Endocrine System HI =	2E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	1.7E-07	NA	1.7E-07	Chloroform	CNS/Liver/Kidney	NA	2E-03	NA	2E-03
			Tetrachloroethylene (PCE)	NA	1.3E-05	NA	1.3E-05	Tetrachloroethylene (PCE)	Kidney	NA	4E-02	NA	4E-02
			Trichloroethylene (TCE)	NA	1.7E-05	NA	1.7E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	3.0E-05	NC	3.0E-05	(Total)		NC	9E-02	NC	9E-02
							Total Risk Across Air (Indoor Vapors)	3.0E-05					Total Hazard Index Across Air (Indoor Vapors)	9E-02
							Total Child Risk Across All Media and All Exposure Routes	3.0E-05					Total Hazard Index Across All Media and All Exposure Routes	9E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	5.1E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	8.0E-05

Total Liver HI =	5E-02
Total Kidney HI =	4E-02
Total CNS HI =	5E-02
Total Endocrine System HI =	4E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	7.2E-08	NA	7.2E-08	Chloroform	CNS/Liver/Kidney	NA	5E-04	NA	5E-04
			Tetrachloroethylene (PCE)	NA	1.7E-06	NA	1.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	4E-03	NA	4E-03
			Trichloroethylene (TCE)	NA	3.0E-06	NA	3.0E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-03	NA	5E-03
			(Total)	NC	4.8E-06	NC	4.8E-06	(Total)		NC	1E-02	NC	1E-02
							Total Risk Across Air (Indoor Vapors)	4.8E-06					Total Hazard Index Across Air (Indoor Vapors)	1E-02
							Total Adult Risk Across All Media and All Exposure Routes	4.8E-06					Total Hazard Index Across All Media and All Exposure Routes	1E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	7.5E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.2E-05

Total Liver HI =	6E-03
Total Kidney HI =	4E-03
Total CNS HI =	6E-03
Total Endocrine System HI =	5E-03

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (NCEA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	1.1E-07	NA	1.1E-07	Chloroform	CNS/Liver/Kidney	NA	1E-03	NA	1E-03
			Tetrachloroethylene (PCE)	NA	2.7E-06	NA	2.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	9E-03	NA	9E-03
			Trichloroethylene (TCE)	NA	4.7E-06	NA	4.7E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	7.5E-06	NC	7.5E-06	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				7.5E-06		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Child Risk Across All Media and All Exposure Routes				7.5E-06		Total Hazard Index Across All Media and All Exposure Routes				2E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	4.8E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.2E-05

Total Liver HI =	1E-02
Total Kidney HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	2.9E-07	NA	2.9E-07	Chloroform	CNS/Liver/Kidney	NA	8E-04	NA	8E-04
			Tetrachloroethylene (PCE)	NA	2.2E-05	NA	2.2E-05	Tetrachloroethylene (PCE)	Kidney	NA	2E-02	NA	2E-02
			Trichloroethylene (TCE)	NA	5.0E-07	NA	5.0E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	2E-02	NA	2E-02
			(Total)	NC	2.2E-05	NC	2.2E-05	(Total)		NC	4E-02	NC	4E-02
			Total Risk Across Air (Indoor Vapors)				2.2E-05		Total Hazard Index Across Air (Indoor Vapors)				4E-02
			Total Adult Risk Across All Media and All Exposure Routes				2.2E-05		Total Hazard Index Across All Media and All Exposure Routes				4E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.3E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.6E-05

Total Liver HI =	2E-02
Total Kidney HI =	2E-02
Total CNS HI =	2E-02
Total Endocrine System HI =	2E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	1.7E-07	NA	1.7E-07	Chloroform	CNS/Liver/Kidney	NA	2E-03	NA	2E-03
			Tetrachloroethylene (PCE)	NA	1.3E-05	NA	1.3E-05	Tetrachloroethylene (PCE)	Kidney	NA	4E-02	NA	4E-02
			Trichloroethylene (TCE)	NA	2.9E-07	NA	2.9E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	4E-02	NA	4E-02
			(Total)	NC	1.3E-05	NC	1.3E-05	(Total)		NC	9E-02	NC	9E-02
							Total Risk Across Air (Indoor Vapors)	1.3E-05				Total Hazard Index Across Air (Indoor Vapors)	9E-02
							Total Child Risk Across All Media and All Exposure Routes	1.3E-05				Total Hazard Index Across All Media and All Exposure Routes	9E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	2.2E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.6E-05

Total Liver HI =	5E-02
Total Kidney HI =	4E-02
Total CNS HI =	5E-02
Total Endocrine System HI =	4E-02

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	7.2E-08	NA	7.2E-08	Chloroform	CNS/Liver/Kidney	NA	5E-04	NA	5E-04
			Tetrachloroethylene (PCE)	NA	1.7E-06	NA	1.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	4E-03	NA	4E-03
			Trichloroethylene (TCE)	NA	5.2E-08	NA	5.2E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-03	NA	5E-03
			(Total)	NC	1.9E-06	NC	1.9E-06	(Total)		NC	1E-02	NC	1E-02
			Total Risk Across Air (Indoor Vapors)				1.9E-06		Total Hazard Index Across Air (Indoor Vapors)				1E-02
			Total Adult Risk Across All Media and All Exposure Routes				1.9E-06		Total Hazard Index Across All Media and All Exposure Routes				1E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.9E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-06

Total Liver HI =	6E-03
Total Kidney HI =	4E-03
Total CNS HI =	6E-03
Total Endocrine System HI =	5E-03

Table 9.8 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	Chloroform	NA	1.1E-07	NA	1.1E-07	Chloroform	CNS/Liver/Kidney	NA	1E-03	NA	1E-03
			Tetrachloroethylene (PCE)	NA	2.7E-06	NA	2.7E-06	Tetrachloroethylene (PCE)	Kidney	NA	9E-03	NA	9E-03
			Trichloroethylene (TCE)	NA	8.2E-08	NA	8.2E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	2.9E-06	NC	2.9E-06	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				2.9E-06		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Child Risk Across All Media and All Exposure Routes				2.9E-06		Total Hazard Index Across All Media and All Exposure Routes				2E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	1.9E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-06

Total Liver HI =	1E-02
Total Kidney HI =	1E-02
Total CNS HI =	1E-02
Total Endocrine System HI =	1E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (NCEA Sope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	4.2E-06	NA	4.2E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	9.5E-07	NA	9.5E-07	Tetrachloroethylene (PCE)	Kidney	NA	8E-04	NA	8E-04
			Trichloroethylene (TCE)	NA	1.7E-05	NA	1.7E-05	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	2.2E-05	NC	2.2E-05	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				2.2E-05		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Adult Risk Across All Media and All Exposure Routes				2.2E-05		Total Hazard Index Across All Media and All Exposure Routes				2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.3E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.5E-05

Total Liver HI =	2E-02
Total Kidney HI =	1E-02
Total CNS HI =	2E-02
Total Endocrine System HI =	1E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (NCEA Sope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	2.4E-06	NA	2.4E-06	Chloroform	CNS/Liver/Kidney	NA	3E-02	NA	3E-02
			Tetrachloroethylene (PCE)	NA	5.5E-07	NA	5.5E-07	Tetrachloroethylene (PCE)	Kidney	NA	2E-03	NA	2E-03
			Trichloroethylene (TCE)	NA	9.9E-06	NA	9.9E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	1.3E-05	NC	1.3E-05	(Total)		NC	6E-02	NC	6E-02
							Total Risk Across Air (Indoor Vapors)	1.3E-05					Total Hazard Index Across Air (Indoor Vapors)	6E-02
							Total Child Risk Across All Media and All Exposure Routes	1.3E-05					Total Hazard Index Across All Media and All Exposure Routes	6E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	2.2E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	3.5E-05

Total Liver HI =	5E-02
Total Kidney HI =	3E-02
Total CNS HI =	5E-02
Total Endocrine System HI =	3E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (NCEA Sope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	4.3E-07	NA	4.3E-07	Chloroform	CNS/Liver/Kidney	NA	3E-03	NA	3E-03
			Tetrachloroethylene (PCE)	NA	1.8E-07	NA	1.8E-07	Tetrachloroethylene (PCE)	Kidney	NA	4E-04	NA	4E-04
			Trichloroethylene (TCE)	NA	3.0E-06	NA	3.0E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-03	NA	5E-03
			(Total)	NC	3.6E-06	NC	3.6E-06	(Total)		NC	9E-03	NC	9E-03
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							3.6E-06						9E-03
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							3.6E-06						9E-03

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	5.6E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	9.1E-06

Total Liver HI =	8E-03
Total Kidney HI =	4E-03
Total CNS HI =	8E-03
Total Endocrine System HI =	5E-03

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (NCEA Sope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	6.7E-07	NA	6.7E-07	Chloroform	CNS/Liver/Kidney	NA	7E-03	NA	7E-03
			Tetrachloroethylene (PCE)	NA	2.7E-07	NA	2.7E-07	Tetrachloroethylene (PCE)	Kidney	NA	9E-04	NA	9E-04
			Trichloroethylene (TCE)	NA	4.6E-06	NA	4.6E-06	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	5.6E-06	NC	5.6E-06	(Total)		NC	2E-02	NC	2E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							5.6E-06						2E-02
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							5.6E-06						2E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	3.6E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	9.1E-06

Total Liver HI =	2E-02
Total Kidney HI =	8E-03
Total CNS HI =	2E-02
Total Endocrine System HI =	1E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	4.2E-06	NA	4.2E-06	Chloroform	CNS/Liver/Kidney	NA	1E-02	NA	1E-02
			Tetrachloroethylene (PCE)	NA	9.5E-07	NA	9.5E-07	Tetrachloroethylene (PCE)	Kidney	NA	8E-04	NA	8E-04
			Trichloroethylene (TCE)	NA	3.0E-07	NA	3.0E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	5.4E-06	NC	5.4E-06	(Total)		NC	2E-02	NC	2E-02
			Total Risk Across Air (Indoor Vapors)				5.4E-06		Total Hazard Index Across Air (Indoor Vapors)				2E-02
			Total Adult Risk Across All Media and All Exposure Routes				5.4E-06		Total Hazard Index Across All Media and All Exposure Routes				2E-02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	3.2E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	8.6E-06

Total Liver HI =	2E-02
Total Kidney HI =	1E-02
Total CNS HI =	2E-02
Total Endocrine System HI =	1E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	2.4E-06	NA	2.4E-06	Chloroform	CNS/Liver/Kidney	NA	3E-02	NA	3E-02
			Tetrachloroethylene (PCE)	NA	5.5E-07	NA	5.5E-07	Tetrachloroethylene (PCE)	Kidney	NA	2E-03	NA	2E-03
			Trichloroethylene (TCE)	NA	1.7E-07	NA	1.7E-07	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	3E-02	NA	3E-02
			(Total)	NC	3.2E-06	NC	3.2E-06	(Total)		NC	6E-02	NC	6E-02
							Total Risk Across Air (Indoor Vapors)	3.2E-06				Total Hazard Index Across Air (Indoor Vapors)	6E-02
							Total Child Risk Across All Media and All Exposure Routes	3.2E-06				Total Hazard Index Across All Media and All Exposure Routes	6E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	5.4E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	8.6E-06

Total Liver HI =	5E-02
Total Kidney HI =	3E-02
Total CNS HI =	5E-02
Total Endocrine System HI =	3E-02

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	4.3E-07	NA	4.3E-07	Chloroform	CNS/Liver/Kidney	NA	3E-03	NA	3E-03
			Tetrachloroethylene (PCE)	NA	1.8E-07	NA	1.8E-07	Tetrachloroethylene (PCE)	Kidney	NA	4E-04	NA	4E-04
			Trichloroethylene (TCE)	NA	5.2E-08	NA	5.2E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	5E-03	NA	5E-03
			(Total)	NC	6.6E-07	NC	6.6E-07	(Total)		NC	9E-03	NC	9E-03
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							6.6E-07						9E-03
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							6.6E-07						9E-03

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.0E-06
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-06

Total Liver HI =	8E-03
Total Kidney HI =	4E-03
Total CNS HI =	8E-03
Total Endocrine System HI =	5E-03

Table 9.9 Summary of Receptor Risks and Hazards for COPCs (CalEPA Slope Factor for TCE)
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	Chloroform	NA	6.7E-07	NA	6.7E-07	Chloroform	CNS/Liver/Kidney	NA	7E-03	NA	7E-03
			Tetrachloroethylene (PCE)	NA	2.7E-07	NA	2.7E-07	Tetrachloroethylene (PCE)	Kidney	NA	9E-04	NA	9E-04
			Trichloroethylene (TCE)	NA	8.1E-08	NA	8.1E-08	Trichloroethylene (TCE)	CNS/Liver/Endocrine System	NA	1E-02	NA	1E-02
			(Total)	NC	1.0E-06	NC	1.0E-06	(Total)		NC	2E-02	NC	2E-02
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							1.0E-06						2E-02
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.0E-06						2E-02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	6.6E-07
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-06

Total Liver HI =	2E-02
Total Kidney HI =	8E-03
Total CNS HI =	2E-02
Total Endocrine System HI =	1E-02

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Adult Risk Across All Media and All Exposure Routes

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Child Risk Across All Media and All Exposure Routes

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Adult Risk Across All Media and All Exposure Routes

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributaruy	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributaruy	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					
							Total Risk Across Surface Water						Total Hazard Index Across All Media and All Exposure Routes
							Total Risk Across Sediment						
							Total Risk Across All Media and All Exposure Routes						

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					
							Total Risk Across Surface Water						Total Hazard Index Across All Media and All Exposure Routes
							Total Risk Across Sediment						
							Total Risk Across All Media and All Exposure Routes						

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Construction Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Construction Worker CTE at 210 Tributary
RIVERFRONT 0U4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Adult Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Residential RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water	
Total Risk Across Sediment	
Total Child Risk Across All Media and All Exposure Routes	
Total Adult Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Total Hazard Index Across All Media and All Exposure Routes	

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Adult Risk Across All Media and All Exposure Routes

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Residential CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Residential
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributaruy	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributaruy	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Child Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					
							Total Risk Across Surface Water						Total Hazard Index Across All Media and All Exposure Routes
							Total Risk Across Sediment						
							Total Risk Across All Media and All Exposure Routes						

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker CTE at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					
							Total Risk Across Surface Water						Total Hazard Index Across All Media and All Exposure Routes
							Total Risk Across Sediment						
							Total Risk Across All Media and All Exposure Routes						

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Construction Worker RME at 210 Tributary
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.1 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Construction Worker CTE at 210 Tributary
RIVERFRONT 0U4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	210 Tributary	None					None					
			(Total)					(Total)					
Sediment	Sediment	210 Tributary	None					None					
			(Total)					(Total)					

Total Risk Across Surface Water
Total Risk Across Sediment
Total Risk Across All Media and All Exposure Routes

Total Hazard Index Across All Media and All Exposure Routes

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Adult Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					
			Total Risk Across Soil (Surface Only)						Total Hazard Index Across Soil (Surface Only)				
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				
			Total Child Risk Across All Media and All Exposure Routes										
			Total Adult and Child Risk Across All Media and All Exposure Routes										

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Adult Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	None					
			Trichloroethylene (TCE)	NA	6.8E-05	NA	6.8E-05						
			(Total)	NC	1.6E-03	NC	1.6E-03	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	1.6E-03	Total Risk Across Air (Outdoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes	1.6E-03	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	9.3E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	2.5E-03

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			Trichloroethylene (TCE)	NA	4.0E-05	NA	4.0E-05						
			(Total)	NC	9.3E-04	NC	9.3E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	0E+00
Total Risk Across Air (Outdoor Vapors)	9.3E-04	Total Risk Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	9.3E-04	Total Hazard Index Across All Media and All Exposure Routes	3E+00

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	1.6E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	2.5E-03

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)	0.0E+00	NC	NC	0.0E+00	(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	None					
			(Total)	NC	6.6E-05	NC	6.6E-05	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	6.6E-05	Total Risk Across Air (Outdoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes	6.6E-05	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.0E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	None					
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Risk Across Air (Outdoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes	1.0E-04	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	6.6E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Adult Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					
			Total Risk Across Soil (Surface Only)						Total Hazard Index Across Soil (Surface Only)				
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				
			Total Child Risk Across All Media and All Exposure Routes										
			Total Adult and Child Risk Across All Media and All Exposure Routes										

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Surface Only)		Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Indoor Vapors)		Total Hazard Index Across Air (Indoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	

Total Adult Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	None					
			(Total)	NC	1.5E-03	NC	1.5E-03	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	1.5E-03	Total Risk Across Air (Outdoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes	1.5E-03	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	8.9E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-03

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			(Total)	NC	8.9E-04	NC	8.9E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	0E+00
Total Risk Across Air (Outdoor Vapors)	8.9E-04	Total Risk Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	8.9E-04	Total Hazard Index Across All Media and All Exposure Routes	3E+00

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	1.5E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	2.4E-03

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)	0.0E+00	NC	NC	0.0E+00	(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	6.6E-05	NA	6.6E-05	None					
			(Total)	NC	6.6E-05	NC	6.6E-05	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	6.6E-05	Total Risk Across Air (Outdoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes	6.6E-05	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.0E-04
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04

Table 10.2 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	None					
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)					

Total Risk Across Soil (Surface Only)	0.0E+00	Total Hazard Index Across Soil (Surface Only)	
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Risk Across Air (Outdoor Vapors)	
Total Child Risk Across All Media and All Exposure Routes	1.0E-04	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available
pr = prorated

Total Adult Risk Across All Media and All Exposure Routes	6.6E-05
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-04

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	None					
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			Trichloroethene (TCE)	6.8E-03	3.3E-02	1.2E-03	4.1E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	9E+01	3E+01	6E+01	2E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.7E-01	6.7E-02	1.0E-01	3.4E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	3.4E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	3.4E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	2.0E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.4E-01

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		3E+00	NC	NC	3E+00
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			Trichloroethene (TCE)	3.9E-03	2.0E-02	6.7E-04	2.4E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	2E+02	7E+01	1E+02	4E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	4E+02	5E+01	6E+01	5E+02
			(Total)	1.0E-01	3.9E-02	6.1E-02	2.0E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	3E+00
Total Risk Across Groundwater	2.0E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	2.0E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Total Adult Risk Across All Media and All Exposure Routes	3.4E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.4E-01

Notes:
NA = not available
pr = prorated

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	3.0E-04	1.5E-03	3.5E-05	1.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.6E-03	2.3E-03	1.8E-03	8.7E-03	(Total)		3E+01	4E+00	5E+00	4E+01
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	8.7E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	8.7E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.3E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	4.7E-04	2.4E-03	4.5E-05	2.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	5E+01	6E+00	4E+00	6E+01
			(Total)	7.1E-03	3.7E-03	2.4E-03	1.3E-02	(Total)		6E+01	1E+01	9E+00	8E+01
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	1.3E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01

Total Adult Risk Across All Media and All Exposure Routes	8.7E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02

Notes:
NA = not available
pr = prorated

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	None					
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)	NC	0.0E+00	NC	0.0E+00	(Total)					
							Total Risk Across Soil (Total Soil)	4.8E-04					Total Hazard Index Across Soil (Total Soil)	
							Total Risk Across Air (Indoor Vapors)	0.0E+00					Total Hazard Index Across Air (Indoor Vapors)	
							Total Adult Risk Across All Media and All Exposure Routes	4.8E-04					Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					
			Total Risk Across Soil (Total Soil)						Total Hazard Index Across Soil (Total Soil)				
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	None					
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			Trichloroethene (TCE)	6.8E-03	3.3E-02	1.2E-03	4.1E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	9E+01	3E+01	6E+01	2E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.7E-01	6.7E-02	1.0E-01	3.4E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			(Total)	NC	1.5E-03	NC	1.5E-03	(Total)		NC	1E+00	NC	1E+00

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	3.4E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Outdoor Vapors)	1.5E-03	Total Hazard Index Across Air (Outdoor Vapors)	1E+00
Total Adult Risk Across All Media and All Exposure Routes	3.4E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02
Total Child Risk Across All Media and All Exposure Routes	2.0E-01		
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-01		

Notes:
NA = not available

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		3E+00	NC	NC	3E+00
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			Trichloroethene (TCE)	3.9E-03	2.0E-02	6.7E-04	2.4E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	2E+02	7E+01	1E+02	4E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	4E+02	5E+01	6E+01	5E+02
			(Total)	1.0E-01	3.9E-02	6.1E-02	2.0E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			(Total)	NC	8.9E-04	NC	8.9E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	3E+00
Total Risk Across Groundwater	2.0E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Outdoor Vapors)	8.9E-04	Total Hazard Index Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	2.0E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	3.4E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.5E-01

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)		0E+00	NC	NC	0E+00
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	6E+00	2E+00	2E+00	1E+01
			Trichloroethene (TCE)	3.0E-04	1.5E-03	3.5E-05	1.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.6E-03	2.3E-03	1.8E-03	8.7E-03	(Total)		3E+01	4E+00	5E+00	4E+01
Air	Outdoor Vapors	On Site	None					None					
			(Total)	NC	0.0E+00	NC	0.0E+00	(Total)		NC	0E+00	NC	0E+00

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	8.7E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Outdoor Vapors)	0.0E+00	Total Hazard Index Across Air (Outdoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	8.7E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.3E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	1E+01	4E+00	5E+00	2E+01
			Trichloroethene (TCE)	4.7E-04	2.4E-03	4.5E-05	2.9E-03	Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	5E+01	6E+00	4E+00	6E+01
			(Total)	7.1E-03	3.7E-03	2.4E-03	1.3E-02	(Total)		6E+01	1E+01	9E+00	8E+01
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	None					
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	1.3E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Hazard Index Across Air (Outdoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	1.3E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01

Notes:	Total Adult Risk Across All Media and All Exposure Routes	8.7E-03
NA = not available	Total Adult and Child Risk Across All Media and All Exposure Routes	2.2E-02

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	None					
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.1E-03	NA	1.1E-03	None					
			(Total)	NC	1.1E-03	NC	1.1E-03	(Total)					
							Total Risk Across Soil (Total Soil)	4.8E-04					Total Hazard Index Across Soil (Total Soil)	
							Total Risk Across Air (Outdoor Vapors)	1.1E-03					Total Hazard Index Across Air (Outdoor Vapors)	
							Total Adult Risk Across All Media and All Exposure Routes	1.6E-03					Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	None					None					
			(Total)					(Total)					
						Total Risk Across Soil (Total Soil)						Total Hazard Index Across Soil (Total Soil)	
						Total Risk Across Air (Outdoor Vapors)						Total Hazard Index Across Air (Outdoor Vapors)	
						Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Construction Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Sewer Water	Sewer Water	On Site	None					None					
			(Total)					(Total)					
Air	Sewer Vapors	On Site	None					Tetrachloroethene	Kidney	NA	9E-01	NA	9E-01
			(Total)					(Total)		NC	9E-01	NC	9E-01
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.6E-04	NA	1.6E-04	Tetrachloroethylene (PCE)	Kidney	NA	1E+01	NA	1E+01
			(Total)	NC	1.6E-04	NC	1.6E-04	(Total)		NC	1E+01	NC	1E+01

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Sewer Water	0.0E+00	Total Hazard Index Across Sewer Water	0E+00
Total Risk Across Air (Sewer Vapors)	0.0E+00	Total Hazard Index Across Soil Gas (Sewer Vapors)	9E-01
Total Risk Across Air (Outdoor Vapors)	1.6E-04	Total Hazard Index Across Air (Outdoor Vapors)	1E+01
Total Adult Risk Across All Media and All Exposure Routes	1.6E-04	Total Hazard Index Across All Media and All Exposure Routes	1E+01

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Construction Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Sewer Water	Sewer Water	On Site	None					None					
			(Total)					(Total)					
Air	Sewer Vapors	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	None					Tetrachloroethylene (PCE)	Kidney	NA	2E+00	NA	2E+00
			(Total)					(Total)		NC	2E+00	NC	2E+00

Total Risk Across Soil (Total Soil)		Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Sewer Water		Total Hazard Index Across Sewer Water	0E+00
Total Risk Across Air (Sewer Vapors)		Total Hazard Index Across Soil Gas (Sewer Vapors)	0E+00
Total Risk Across Air (Outdoor Vapors)		Total Hazard Index Across Air (Outdoor Vapors)	2E+00
Total Adult Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	2E+00

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	None					
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			Trichloroethene (TCE)	2.2E-04	5.9E-04	3.8E-05	8.5E-04	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	9E+01	3E+01	6E+01	2E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	3.0E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	3.0E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.8E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		3E+00	NC	NC	3E+00
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			Trichloroethene (TCE)	1.3E-04	3.5E-04	2.2E-05	5.0E-04	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	2E+02	7E+01	1E+02	4E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	4E+02	5E+01	6E+01	5E+02
			(Total)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	3E+00
Total Risk Across Groundwater	1.8E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	1.8E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Total Adult Risk Across All Media and All Exposure Routes	3.0E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	4.8E-01

Notes:
NA = not available
pr = prorated

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	6E+00	2E+00	2E+00	1E+01
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	(Total)		3E+01	4E+00	5E+00	4E+01
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	6.8E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	6.8E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.0E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE) Trichloroethene (TCE)	Liver/Body Weight/Kidney [1] Liver/Kidneys/Developmental/CNS/Endocrine [2]	1E+01 5E+01	4E+00 6E+00	5E+00 4E+00	2E+01 6E+01
			(Total)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	(Total)		6E+01	1E+01	9E+00	8E+01
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	1.0E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Indoor Vapors)	0.0E+00	Total Hazard Index Across Air (Indoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	1.0E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01

Total Adult Risk Across All Media and All Exposure Routes	6.8E-03
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02

Notes:
NA = not available
pr = prorated

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	None					
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)	NC	0.0E+00	NC	0.0E+00	(Total)					
							Total Risk Across Soil (Total Soil)	4.8E-04					Total Hazard Index Across Soil (Total Soil)	
							Total Risk Across Air (Indoor Vapors)	0.0E+00					Total Hazard Index Across Air (Indoor Vapors)	
							Total Adult Risk Across All Media and All Exposure Routes	4.8E-04					Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Air	Indoor Vapors	On Site	None					None					
			(Total)					(Total)					
							Total Risk Across Soil (Total Soil)						Total Hazard Index Across Soil (Total Soil)
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	6.5E-04	NA	NA	6.5E-04	None					
			(Total)	6.5E-04	NC	NC	6.5E-04	(Total)					
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	1.6E-01	3.4E-02	1.0E-01	3.0E-01	cis-1,2-Dichloroethene	Blood	5E+00	NC	4E-01	5E+00
			Trichloroethene (TCE)	6.8E-03	3.3E-02	1.2E-03	4.1E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	9E+01	3E+01	6E+01	2E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+02	2E+01	3E+01	2E+02
			(Total)	1.7E-01	6.7E-02	1.0E-01	3.4E-01	(Total)		3E+02	5E+01	9E+01	4E+02
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.5E-03	NA	1.5E-03	Tetrachloroethylene (PCE)	Kidney	NA	1E+00	NA	1E+00
			(Total)	NC	1.5E-03	NC	1.5E-03	(Total)		NC	1E+00	NC	1E+00

Total Risk Across Soil (Total Soil)	6.5E-04	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	3.4E-01	Total Hazard Index Across Groundwater	4E+02
Total Risk Across Air (Outdoor Vapors)	1.5E-03	Total Hazard Index Across Air (Outdoor Vapors)	1E+00
Total Adult Risk Across All Media and All Exposure Routes	3.4E-01	Total Hazard Index Across All Media and All Exposure Routes	4E+02

Notes:	Total Child Risk Across All Media and All Exposure Routes	1.8E-01
NA = not available	Total Adult and Child Risk Across All Media and All Exposure Routes	5.2E-01

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	1.5E-03	NA	NA	1.5E-03	Tetrachloroethene (PCE)	Liver/Body Weight	3E+00	NA	NA	3E+00
			(Total)	1.5E-03	NC	NC	1.5E-03	(Total)		3E+00	NC	NC	3E+00
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	cis-1,2-Dichloroethene	Blood	1E+01	NC	1E+00	1E+01
			Trichloroethene (TCE)	1.3E-04	3.5E-04	2.2E-05	5.0E-04	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	2E+02	7E+01	1E+02	4E+02
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	4E+02	5E+01	6E+01	5E+02
			(Total)	9.7E-02	2.0E-02	6.1E-02	1.8E-01	(Total)		6E+02	1E+02	2E+02	9E+02
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	8.9E-04	NA	8.9E-04	Tetrachloroethylene (PCE)	Kidney	NA	3E+00	NA	3E+00
			(Total)	NC	8.9E-04	NC	8.9E-04	(Total)		NC	3E+00	NC	3E+00

Total Risk Across Soil (Total Soil)	1.5E-03	Total Hazard Index Across Soil (Total Soil)	3E+00
Total Risk Across Groundwater	1.8E-01	Total Hazard Index Across Groundwater	9E+02
Total Risk Across Air (Outdoor Vapors)	8.9E-04	Total Hazard Index Across Air (Outdoor Vapors)	3E+00
Total Child Risk Across All Media and All Exposure Routes	1.8E-01	Total Hazard Index Across All Media and All Exposure Routes	9E+02

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes	3.4E-01
Total Adult and Child Risk Across All Media and All Exposure Routes	5.2E-01

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)		0E+00	NC	NC	0E+00
Groundwater	Groundwater/ Vapor	On Site	Tetrachloroethene (PCE)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	6E+00	2E+00	2E+00	1E+01
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	2E+01	3E+00	2E+00	2E+01
			(Total)	4.3E-03	8.3E-04	1.7E-03	6.8E-03	(Total)		3E+01	4E+00	5E+00	4E+01
Air	Outdoor Vapors	On Site	None					None					
			(Total)	NC	0.0E+00	NC	0.0E+00	(Total)		NC	0E+00	NC	0E+00

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	6.8E-03	Total Hazard Index Across Groundwater	4E+01
Total Risk Across Air (Outdoor Vapors)	0.0E+00	Total Hazard Index Across Air (Outdoor Vapors)	0E+00
Total Adult Risk Across All Media and All Exposure Routes	6.8E-03	Total Hazard Index Across All Media and All Exposure Routes	4E+01

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	1.0E-02
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Groundwater	Groundwater	On Site	Tetrachloroethene (PCE)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	Tetrachloroethene (PCE)	Liver/Body Weight/Kidney [1]	1E+01	4E+00	5E+00	2E+01
								Trichloroethene (TCE)	Liver/Kidneys/Developmental/CNS/Endocrine [2]	5E+01	6E+00	4E+00	6E+01
			(Total)	6.6E-03	1.3E-03	2.4E-03	1.0E-02	(Total)		6E+01	1E+01	9E+00	8E+01
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.0E-04	NA	1.0E-04	None					
			(Total)	NC	1.0E-04	NC	1.0E-04	(Total)					

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Groundwater	1.0E-02	Total Hazard Index Across Groundwater	8E+01
Total Risk Across Air (Outdoor Vapors)	1.0E-04	Total Hazard Index Across Air (Outdoor Vapors)	0E+00
Total Child Risk Across All Media and All Exposure Routes	1.0E-02	Total Hazard Index Across All Media and All Exposure Routes	8E+01
Total Adult Risk Across All Media and All Exposure Routes	6.8E-03		
Total Adult and Child Risk Across All Media and All Exposure Routes	1.7E-02		

Notes:
NA = not available

1 For Tetrachloroethene (PCE), effects on the Liver and Body Weight are for oral and dermal routes; effects on the Kidney are only for the inhalation route.
2 For Trichloroethene (TCE), effects on the Kidney and Development are for oral and dermal routes; effects on the CNS and Endocrine System are only for the inhalation route; effects on the Liver are for all exposure routes.

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	Tetrachloroethene (PCE)	4.8E-04	NA	NA	4.8E-04	None					
			(Total)	4.8E-04	NC	NC	4.8E-04	(Total)					
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.1E-03	NA	1.1E-03	None					
			(Total)	NC	1.1E-03	NC	1.1E-03	(Total)					

Total Risk Across Soil (Total Soil)	4.8E-04	Total Hazard Index Across Soil (Total Soil)	
Total Risk Across Air (Outdoor Vapors)	1.1E-03	Total Hazard Index Across Air (Outdoor Vapors)	
Total Adult Risk Across All Media and All Exposure Routes	1.6E-03	Total Hazard Index Across All Media and All Exposure Routes	

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Industrial Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	None					None					
			(Total)					(Total)					
							Total Risk Across Soil (Total Soil)						Total Hazard Index Across Soil (Total Soil)
							Total Risk Across Air (Outdoor Vapors)						Total Hazard Index Across Air (Outdoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Construction Worker RME
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Sewer Water	Sewer Water	On Site	None					None					
			(Total)					(Total)					
Air	Sewer Vapors	On Site	None					Tetrachloroethene	Kidney	NA	9E-01	NA	9E-01
			(Total)					(Total)		NC	9E-01	NC	9E-01
Air	Outdoor Vapors	On Site	Tetrachloroethylene (PCE)	NA	1.6E-04	NA	1.6E-04	Tetrachloroethylene (PCE)	Kidney	NA	1E+01	NA	1E+01
			(Total)	NC	1.6E-04	NC	1.6E-04	(Total)		NC	1E+01	NC	1E+01

Total Risk Across Soil (Total Soil)	0.0E+00	Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Sewer Water	0.0E+00	Total Hazard Index Across Sewer Water	0E+00
Total Risk Across Air (Sewer Vapors)	0.0E+00	Total Hazard Index Across Soil Gas (Sewer Vapors)	9E-01
Total Risk Across Air (Outdoor Vapors)	1.6E-04	Total Hazard Index Across Air (Outdoor Vapors)	1E+01
Total Adult Risk Across All Media and All Exposure Routes	1.6E-04	Total Hazard Index Across All Media and All Exposure Routes	1E+01

Notes:
NA = not available

Table 10.3 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Construction Worker CTE
RIVERFRONT OU4

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Total Soil	Total Soil	On Site	None					None					
			(Total)					(Total)					
Sewer Water	Sewer Water	On Site	None					None					
			(Total)					(Total)					
Air	Sewer Vapors	On Site	None					None					
			(Total)					(Total)					
Air	Outdoor Vapors	On Site	None					Tetrachloroethylene (PCE)	Kidney	NA	2E+00	NA	2E+00
			(Total)					(Total)		NC	2E+00	NC	2E+00

Total Risk Across Soil (Total Soil)		Total Hazard Index Across Soil (Total Soil)	0E+00
Total Risk Across Sewer Water		Total Hazard Index Across Sewer Water	0E+00
Total Risk Across Air (Sewer Vapors)		Total Hazard Index Across Soil Gas (Sewer Vapors)	0E+00
Total Risk Across Air (Outdoor Vapors)		Total Hazard Index Across Air (Outdoor Vapors)	2E+00
Total Adult Risk Across All Media and All Exposure Routes		Total Hazard Index Across All Media and All Exposure Routes	2E+00

Notes:
NA = not available

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.4 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit B	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.5 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit A	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.6 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit C	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.7 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit D	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
			Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)				
			Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes				

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes	
Total Adult and Child Risk Across All Media and All Exposure Routes	

Table 10.8 Risk Assessment Summary (Chemicals of Concern) - CalEPA Slope Factor for TCE
Child Resident CTE
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit F	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Child Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Adult Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.9 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Adult Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
							Total Adult Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes

Notes:
NA = not available

Total Child Risk Across All Media and All Exposure Routes
Total Adult and Child Risk Across All Media and All Exposure Routes

Table 10.9 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE
Child Resident RME
RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	None					None					
			(Total)					(Total)					
							Total Risk Across Air (Indoor Vapors)						Total Hazard Index Across Air (Indoor Vapors)
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Notes:
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Table 10.9 Risk Assessment Summary (Chemicals of Concern) - NCEA Slope Factor for TCE

Adult Resident CTE

RIVERFRONT OU4

Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Indoor Vapors	Exposure Unit E	None					None					
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Scenario Timeframe: Current
Receptor Population: Resident
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Receptor Age: Child

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				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
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Scenario Timeframe: Current
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				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
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Child Resident CTE
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Scenario Timeframe: Current
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
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