APPENDIX D

SUMMARY OF PARCEL-SPECIFIC AND CHEMICAL-SPECIFIC RISK AND HAZARD, WITH SUPPORTING DOCUMENTATION

VOLATILIZATION AND PARTICULATE EMISSION FACTORS

BaP EQUIVALENT CONCENTRATIONS

PREDICTED BLOOD LEAD LEVELS

PARCEL-SPECIFIC AND CHEMICAL-SPECIFIC RISK AND HAZARD:

- **RME EXPOSURE SCENARIO**
- **CT EXPOSURE SCENARIO**
- **COMBINED TIERS 1 AND 2 EVALUATION**

Table D-1
Volatilization and Particulate Emission Factors
Baseline Risk Assessment
Del Amo Site

Parameter	Value	Units	Reference
Water-filled soil porosity (θw)	2.53E-01	(Lwater-Lsoil)	Site Specific Geomean of Soil Data 0-15' bgs
Total soil porosity (θ_T)	3.79E-01	(Lpore-Lsoil)	Site Specific Geomean of Soil Data 0-15' bgs
Air-filled soil porosity (θa)	1.27E-01	(Lair-Lsoil)	Site Specific Geomean of Soil Data 0-15' bgs
Soil particle density (ps)	2.67E+00	g/cm^3	Site Specific Geomean of Soil Data 0-15' bgs
Soil bulk density (Pb)	1.6317	g/cm^3	Site Specific Geomean of Soil Data 0-15' bgs
Fraction organic carbon in soil (foc)	0.006	unitless	Default (USEPA 2001)
Exposure interval (T), resident	9.46E+08	sec	Resident for 30 years
Exposure interval (T), commercial worker	7.88E+08	sec	Worker for 25 years
Exposure interval (T), trench worker	3.15E+07	sec	one year exposure duration
Inverse of mean conc (Q/C), resident/commercial	45.95	(g/m^2-s per kg/m^3)	Calculated for a 5-acre site in Los Angeles (USEPA 2001)
Inverse of mean conc (Q/C), trench worker	68.18	(g/m^2-s per kg/m^3)	Calculated for a 0.5-acre site in Los Angeles (USEPA 2001)
Ambient air velocity in mixing zone (Uair)	0.255	m/s	1/10th average wind speed (5.7 mph) for Los Angeles (NCDC 2004)
Width of source-zone area (W)	914	cm	Assume length of trench = 30 feet
Mixing zone height (H)	457	cm	Assume depth of trench = 15 feet
Width of trench (W_t)	305	cm	Assume width of trench = 10 feet
Source-zone area (A)	1.1E+06	cm^2	2 sidewalls and bottom area of trench
Dispersion factor for ambient air (DFamb)	9.56	cm/s	Calculated (ASTM 1998)
Fraction of vegetative cover (G), resident/comm	0.5	unitless	Default (USEPA 2001)
Fraction of vegetative cover (G), trench worker	0	unitless	Professional Judgment
Mean annual windspeed (Um)	4.69	m/s	Default (USEPA 2001)
Equivalent threshold value of windspeed at 7m (Ut)	11.32	m/s	Default (USEPA 2001)
Function dependent on Um/Ut (Fx)	1.94E-01	unitless	Default (USEPA 2001)
Particulate Emission Factor (PEF), resident/comm	6.66E+08	(m^3/kg)	calculated for an average parcel size
Particulate Emission Factor (PEF), trench worker	4.94E+08	(m^3/kg)	calculated for a limited area (0.5-acre)

Note:

Particulate Emission Factor (USEPA 2001): $PEF = [(Q/C * 3600) / (0.036 * (1-G) * (Um/Ut)^3 * Fx)]$

Table D-1
Volatilization and Particulate Emission Factors
Baseline Risk Assessment
Del Amo Site

Compound	Diffusivity in Air (Dair)	Henry's Law Constant (H')	Diffusivity in Water (Dw)	Soil organic carbon partition coeff (Koc)	Soil-water partition coefficient (Kd)	(Ksw)	Apparent Diffusivity (Da)	Effective Diffusion Coefficient (Deff)	Commercial VF (m^3/kg)	Resident VF (m^3/kg)	Trench VF (kg/m^3)
VOCs											
1,1,2,2-Tetrachloroethane	7.1E-02	1.4E-02	7.9E-06	9.3E+01	5.6E-01	7.1E-01	6.6E-06	5.5E-04	2.7E+04	3.0E+04	8.8E-05
1,1,1-Trichloroethane	7.8E-02	7.1E-01	8.8E-06	1.1E+02	6.6E-01	8.7E-01	2.8E-04	5.6E-04	4.2E+03	4.6E+03	5.7E-04
1,1,2-Trichloroethane	7.8E-02	3.7E-02	8.8E-06	5.0E+01	3.0E-01	4.6E-01	2.8E-05	5.8E-04	1.3E+04	1.4E+04	1.8E-04
1,1-Dichloroethane	7.4E-02	2.3E-01	1.1E-05	3.2E+01	1.9E-01	3.6E-01	2.0E-04	5.3E-04	4.9E+03	5.4E+03	4.9E-04
1,1-Dichloroethene	9.0E-02	1.1E+00	1.0E-05	5.9E+01	3.5E-01	5.9E-01	7.3E-04	6.5E-04	2.6E+03	2.8E+03	9.3E-04
1,2,3-Trichlorobenzene	3.0E-02	5.8E-02	8.2E-06	1.8E+03	1.1E+01	1.1E+01	7.2E-07	2.2E-04	8.2E+04	9.0E+04	2.9E-05
1,2,4-Trichlorobenzene	3.0E-02	5.8E-02	8.2E-06	1.8E+03	1.1E+01	1.1E+01	7.2E-07	2.2E-04	8.2E+04	9.0E+04	2.9E-05
1,2,4-Trimethylbenzene	7.5E-02	2.3E-01	7.1E-06	3.7E+03	2.2E+01	2.2E+01	3.4E-06	5.4E-04	3.8E+04	4.2E+04	6.3E-05
1,2-Dibromoethane	7.3E-02	1.3E-02	8.1E-06	2.8E+01	1.7E-01	3.2E-01	1.4E-05	5.7E-04	1.9E+04	2.1E+04	1.3E-04
1,2-Dichlorobenzene	6.9E-02	7.8E-02	7.9E-06	6.2E+02	3.7E+00	3.9E+00	6.1E-06	5.0E-04	2.8E+04	3.1E+04	8.5E-05
1,2-Dichloroethane	1.0E-01	4.0E-02	9.9E-06	1.7E+01	1.0E-01	2.6E-01	6.9E-05	7.3E-04	8.4E+03	9.3E+03	2.9E-04
1,2-Dichloroethene (cis)	7.4E-02	1.7E-01	1.1E-05	3.6E+01	2.2E-01	3.8E-01	1.4E-04	5.3E-04	5.8E+03	6.4E+03	4.1E-04
1,3,5-Trimethylbenzene	7.5E-02	3.2E-01	7.1E-06	8.2E+02	4.9E+00	5.1E+00	2.1E-05	5.4E-04	1.5E+04	1.7E+04	1.6E-04
1,3-Dichlorobenzene	6.9E-02	7.8E-02	7.9E-06	6.2E+02	3.7E+00	3.9E+00	6.1E-06	5.0E-04	2.8E+04	3.1E+04	8.5E-05
1,4-Dichlorobenzene	6.9E-02	1.0E-01	7.9E-06	6.2E+02	3.7E+00	3.9E+00	7.8E-06	5.0E-04	2.5E+04	2.7E+04	9.6E-05
2-Hexanone	7.5E-02	3.8E-03	7.8E-06	1.3E+01	7.8E-02	2.3E-01	6.8E-06	6.8E-04	2.7E+04	2.9E+04	9.0E-05
4-Ethyl Toluene	7.0E-02	2.6E-01	7.8E-06	8.4E+02	5.0E+00	5.2E+00	1.5E-05	5.0E-04	1.8E+04	2.0E+04	1.3E-04
Acetone	1.2E-01	1.6E-03	1.1E-05	5.8E-01	3.5E-03	1.6E-01	8.3E-06	1.3E-03	2.4E+04	2.7E+04	9.9E-05
Acetonitrile	1.3E-01	8.2E-04	1.7E-05	1.6E+01	9.6E-02	2.5E-01	4.8E-06	2.4E-03	3.2E+04	3.5E+04	7.5E-05
Benzene	8.8E-02	2.3E-01	9.8E-06	5.9E+01	3.5E-01	5.3E-01	1.7E-04	6.3E-04	5.4E+03	5.9E+03	4.5E-04
n-Butylbenzene	7.5E-02	5.4E-01	7.8E-06	2.8E+03	1.7E+01	1.7E+01	1.0E-05	5.4E-04	2.2E+04	2.4E+04	1.1E-04
sec-Butylbenzene	7.5E-02	5.7E-01	7.8E-06	9.7E+02	5.8E+00	6.0E+00	3.1E-05	5.4E-04	1.3E+04	1.4E+04	1.9E-04
Carbon disulfide	1.0E-01	1.2E+00	1.0E-05	4.6E+01	2.8E-01	5.2E-01	1.0E-03	7.2E-04	2.2E+03	2.4E+03	1.1E-03
Carbon tetrachloride	7.8E-02	1.2E+00	8.8E-06	1.7E+02	1.0E+00	1.3E+00	3.2E-04	5.6E-04	3.9E+03	4.3E+03	6.2E-04
Chlorobenzene	7.3E-02	1.5E-01	8.7E-06	2.2E+02	1.3E+00	1.5E+00	3.2E-05	5.3E-04	1.2E+04	1.3E+04	2.0E-04
Chloroethane	1.0E-01	4.5E-01	1.2E-05	1.5E+01	9.0E-02	2.8E-01	7.0E-04	7.2E-04	2.6E+03	2.9E+03	9.1E-04
Chloroform	1.0E-01	1.5E-01	1.0E-05	4.0E+01	2.4E-01	4.1E-01	1.7E-04	7.5E-04	5.4E+03	5.9E+03	4.5E-04
Chloromethane	1.1E-01	9.8E-01	6.5E-06	3.5E+01	2.1E-01	4.4E-01	1.1E-03	7.8E-04	2.2E+03	2.4E+03	1.1E-03

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Baseline Risk Assessment
Del Amo Site

Compound	Diffusivity in Air (Dair)	Henry's Law Constant (H')	Diffusivity in Water (Dw)	Soil organic carbon partition coeff (Koc)	Soil-water partition coefficient (Kd)	(Ksw)	Apparent Diffusivity (Da)	Effective Diffusion Coefficient (Deff)	Commercial VF (m^3/kg)	Resident VF (m^3/kg)	Trench VF (kg/m^3)
VOCs											
Cyclohexane	8.0E-02	8.2E+00	9.0E-06	1.6E+02	9.6E-01	1.8E+00	1.6E-03	5.7E-04	1.7E+03	1.9E+03	1.4E-03
Dichlorobromomethane	3.0E-02	6.6E-02	1.1E-05	5.5E+01	3.3E-01	4.9E-01	1.9E-05	2.3E-04	1.6E+04	1.8E+04	1.5E-04
Ethanol	1.5E-01	6.4E+00	1.6E-05	1.0E+00	6.0E-03	6.6E-01	6.4E-03	1.1E-03	8.8E+02	9.6E+02	2.7E-03
Ethylbenzene	7.5E-02	3.2E-01	7.8E-06	3.6E+02	2.2E+00	2.3E+00	4.5E-05	5.4E-04	1.0E+04	1.1E+04	2.3E-04
Freon 11 (TCFM)	8.7E-02	4.0E+00	1.3E-05	1.6E+02	9.6E-01	1.4E+00	1.1E-03	6.2E-04	2.1E+03	2.4E+03	1.1E-03
Freon 12 (DCDFM)	8.0E-02	4.1E+00	1.1E-05	5.8E+01	3.5E-01	8.2E-01	1.7E-03	5.7E-04	1.7E+03	1.8E+03	1.4E-03
Freon 113 (TCTFE)	2.9E-02	2.1E+01	8.1E-06	1.6E+02	9.6E-01	2.7E+00	9.7E-04	2.1E-04	2.3E+03	2.5E+03	1.1E-03
Freon 114 (DCTFE)	2.9E-02	6.3E+01	8.1E-06	2.2E+02	1.3E+00	6.4E+00	1.2E-03	2.1E-04	2.0E+03	2.2E+03	1.2E-03
n-Heptane	9.3E-02	8.2E+01	7.6E-06	2.7E+02	1.6E+00	8.2E+00	4.0E-03	6.6E-04	1.1E+03	1.2E+03	2.2E-03
n-Hexane	2.0E-01	5.0E+00	7.8E-06	8.9E+02	5.3E+00	5.9E+00	7.4E-04	1.4E-03	2.6E+03	2.8E+03	9.4E-04
Isopropanol	9.8E-02	3.3E-04	1.0E-05	1.1E+00	6.4E-03	1.6E-01	3.7E-06	2.9E-03	3.7E+04	4.0E+04	6.6E-05
Isopropylbenzene	7.5E-02	4.7E-01	7.1E-06	2.2E+02	1.3E+00	1.5E+00	1.0E-04	5.4E-04	6.9E+03	7.6E+03	3.5E-04
p-Isopropyltoluene	7.5E-02	3.8E-01	7.1E-06	1.3E+03	7.9E+00	8.1E+00	1.5E-05	5.4E-04	1.8E+04	2.0E+04	1.3E-04
Methyl ethyl ketone	9.0E-02	1.1E-03	9.8E-06	4.5E+00	2.7E-02	1.8E-01	4.7E-06	1.3E-03	3.2E+04	3.5E+04	7.5E-05
Methyl isobutyl ketone	7.5E-02	5.7E-03	7.8E-06	1.3E+02	7.8E-01	9.4E-01	2.4E-06	6.3E-04	4.6E+04	5.0E+04	5.3E-05
Methyl tert-butyl ether	8.0E-02	2.4E-02	1.0E-05	6.0E+00	3.6E-02	1.9E-01	4.6E-05	6.0E-04	1.0E+04	1.1E+04	2.3E-04
Methylene chloride	1.0E-01	9.0E-02	1.2E-05	1.2E+01	7.2E-02	2.3E-01	1.7E-04	7.3E-04	5.4E+03	5.9E+03	4.5E-04
Naphthalene	5.9E-02	1.8E-02	7.5E-06	1.2E+03	7.2E+00	7.4E+00	6.7E-07	4.5E-04	8.5E+04	9.3E+04	2.8E-05
n-Propylbenzene	7.5E-02	5.4E-01	7.8E-06	2.8E+03	1.7E+01	1.7E+01	1.0E-05	5.4E-04	2.2E+04	2.4E+04	1.1E-04
Styrene	7.1E-02	1.1E-01	8.0E-06	7.8E+02	4.7E+00	4.8E+00	7.1E-06	5.1E-04	2.6E+04	2.9E+04	9.2E-05
Tetrachloroethene	7.2E-02	7.5E-01	8.2E-06	1.6E+02	9.6E-01	1.2E+00	2.0E-04	5.2E-04	4.9E+03	5.4E+03	4.9E-04
Toluene	8.7E-02	2.7E-01	8.6E-06	1.8E+02	1.1E+00	1.3E+00	8.2E-05	6.3E-04	7.7E+03	8.5E+03	3.1E-04
Trichloroethene	7.9E-02	4.2E-01	9.1E-06	1.7E+02	1.0E+00	1.2E+00	1.2E-04	5.7E-04	6.4E+03	7.0E+03	3.8E-04
Xylenes (total)	7.0E-02	3.0E-01	7.8E-06	4.1E+02	2.5E+00	2.6E+00	3.5E-05	5.0E-04	1.2E+04	1.3E+04	2.0E-04

Notes:

Volatilization Factor; resident, commercial (USEPA 2001): $VF = Q/C * ((3.14 * Da * T)^{1/2} * 10^{-4})/(2 * Pb * Da))$

Effective Diffusion Coefficient (ASTM 1998): $Deff = [((Dair * \theta a^{3.33}) / \theta_T^2) + ((Dw * \theta w^{3.33}) / (H' * \theta_T^2))]$

Volatilization Factor; trench (ASTM 1998): $VF = (Pb / DFamb) * [(4 * Deff * H') / (3.14 * T * 3.2E07 * Ksw * Pb)]^{1/2}$

Table D-2a
Derivation of BaP-Equivalent Concentrations
PAH Detections in Surface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-33-22		7351-34-72		7351-31-20						7351-34-901				7351-34-70			
	Site ID	SBL0209		SBL0422		SBL0427		SBL0468		SBL0469		SSL0007		SSL0008		SSL0009		SSL0010	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.00038	0.000038	0.015	0.0015	0.31	0.031	0.022	0.0022	0.0021	0.00021	0.31	0.031	0.31	0.031	0.31	0.031	0.31	0.031
Benzo(a)pyrene	1	<0.005	0.0025	0.0081	0.0081	0.76	0.76	0.018	0.018	0.0052	0.0052	<0.2	0.1	<0.2	0.1	<0.2	0.1	<0.2	0.1
Benzo(b)fluoranthene	0.1	<0.005	0.00025	0.016	0.0016	0.48	0.048	0.055	0.0055	0.0044	0.00044	<0.2	0.01	<0.2	0.01	<0.2	0.01	<0.2	0.01
Benzo(k)fluoranthene	0.1	<0.005	0.00025	0.021	0.0021	0.42	0.042	0.045	0.0045	0.0044	0.00044	<0.2	0.01	<0.2	0.01	<0.2	0.01	<0.2	0.01
Chrysene	0.01	0.00077	0.0000077	0.026	0.00026	0.37	0.0037	0.047	0.00047	0.0027	0.000027	<0.2	0.001	<0.2	0.001	<0.2	0.001	<0.2	0.001
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.0034	0.00374	0.075	0.0825	<0.1	0.055	0.00049	0.000539	<0.2	0.11	<0.2	0.11	<0.2	0.11	<0.2	0.11
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	0.0095	0.00095	0.51	0.051	0.012	0.0012	0.0054	0.00054	<0.3	0.015	<0.3	0.015	<0.3	0.015	<0.3	0.015
BaP-eq Concentration =			0.006		0.018		1.02		0.087		0.007		0.277		0.277		0.277		0.277

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit (MDL) listed

If individual PAH was not detected, 1/2 their MDL was used as a surrogate concentration

"Converted" PAH concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration: Benzo(a)pyrene equivalent concentration = sum of the converted PAH concentrations

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-31-12				7351-31-17								7351-31-20	
	Site ID	SBL0370		SBL0413		SBL0280		SBL0281		SBL0282		SBL0283		SBL0337	
	Sample Depth	1.5		7.2		2		2		2		1.5		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.003	0.0003	0.0012	0.00012	0.026	0.0026	0.016	0.0016	0.0086	0.00086	0.014	0.0014	4.8	0.48
Benzo(a)pyrene	1	0.0045	0.0045	0.001	0.001	0.026	0.026	0.017	0.017	0.012	0.012	0.021	0.021	13	13
Benzo(b)fluoranthene	0.1	0.0044	0.00044	0.0012	0.00012	0.035	0.0035	0.024	0.0024	0.018	0.0018	0.027	0.0027	10	1
Benzo(k)fluoranthene	0.1	0.0023	0.00023	0.0011	0.00011	0.021	0.0021	0.015	0.0015	0.014	0.0014	0.018	0.0018	6.7	0.67
Chrysene	0.01	0.0058	0.000058	0.0023	0.000023	0.048	0.00048	0.03	0.0003	0.031	0.00031	0.034	0.00034	6.4	0.064
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.00037	0.000407	0.0049	0.00539	0.0038	0.00418	0.0021	0.00231	0.0039	0.00429	1.7	1.87
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	0.0006	0.00006	0.016	0.0016	0.0081	0.00081	0.0065	0.00065	0.0068	0.00068	19	1.9
BaP-eq Concentration =			0.009		0.002		0.042		0.028		0.019		0.032		**19**

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-31-20													
	Site ID	SBL0338		SBL0339		SBL0340		SBL0342		SBL0344		SBL0345		SBL0348	
	Sample Depth	1.5		1.8		3.7		3.6		1.5		1.5		4	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.042	0.0042	0.16	0.016	0.1	0.01	0.044	0.0044	<0.005	0.00025	0.0077	0.00077	0.028	0.0028
Benzo(a)pyrene	1	0.11	0.11	0.21	0.21	0.33	0.33	0.044	0.044	<0.005	0.0025	0.0092	0.0092	0.06	0.06
Benzo(b)fluoranthene	0.1	0.088	0.0088	0.19	0.019	0.24	0.024	0.055	0.0055	0.00062	0.000062	0.0097	0.00097	0.054	0.0054
Benzo(k)fluoranthene	0.1	0.075	0.0075	0.15	0.015	0.17	0.017	0.036	0.0036	<0.005	0.00025	0.0078	0.00078	0.039	0.0039
Chrysene	0.01	0.054	0.00054	0.18	0.0018	0.16	0.0016	0.057	0.00057	<0.005	0.000025	0.014	0.00014	0.036	0.00036
Dibenzo(a,h)anthracene	1.1	0.014	0.0154	0.034	0.0374	0.034	0.0374	0.0094	0.01034	<0.005	0.00275	<0.05	0.0275	0.0095	0.01045
Indeno(1,2,3-c,d)pyrene	0.1	0.14	0.014	0.24	0.024	0.48	0.048	0.037	0.0037	<0.005	0.00025	0.0096	0.00096	0.066	0.0066
BaP-eq Concentration =			0.160		0.323		0.468		0.072		0.006		0.040		0.090

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-31-20										7351-31-21			
	Site ID	SBL0349		SBL0350		SBL0424		SBL0430		SBL0431		SBL0365		SBL0366	
	Sample Depth	2		2		3.5		3.5		1.5		1.5		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.005	0.0005	0.0059	0.00059	<0.005	0.00025	0.11	0.011	0.029	0.0029	0.027	0.0027	<0.005	0.00025
Benzo(a)pyrene	1	0.0068	0.0068	0.0079	0.0079	<0.005	0.0025	0.32	0.32	0.044	0.044	0.042	0.042	0.00067	0.00067
Benzo(b)fluoranthene	0.1	0.0095	0.00095	0.011	0.0011	0.00052	0.000052	0.17	0.017	0.086	0.0086	0.043	0.0043	<0.005	0.00025
Benzo(k)fluoranthene	0.1	0.0048	0.00048	0.0075	0.00075	<0.005	0.00025	0.24	0.024	0.044	0.0044	0.034	0.0034	0.00036	0.000036
Chrysene	0.01	0.0081	0.000081	0.0077	0.000077	<0.005	0.000025	0.18	0.0018	0.041	0.00041	0.037	0.00037	<0.005	0.000025
Dibenzo(a,h)anthracene	1.1	<0.05	0.0275	0.0013	0.00143	<0.005	0.00275	0.032	0.0352	0.011	0.0121	0.0053	0.00583	<0.005	0.00275
Indeno(1,2,3-c,d)pyrene	0.1	0.0074	0.00074	0.0056	0.00056	<0.005	0.00025	0.25	0.025	0.039	0.0039	0.035	0.0035	0.00082	0.000082
BaP-eq Concentration =			0.037		0.012		0.006		0.434		0.076		0.062		0.004

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-31-21								7351-31-28		7351-31-29			
	Site ID	SBL0367		SBL0368		SBL0369		SBL0371		SBL0364		SBL0426		SBL0467	
	Sample Depth	1.5		1.5		1.5		2		2		1.5		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.00041	0.000041	0.04	0.004	0.0041	0.00041	0.0057	0.00057	0.03	0.003	0.023	0.0023	0.01	0.001
Benzo(a)pyrene	1	0.00071	0.00071	0.014	0.014	0.0098	0.0098	0.0075	0.0075	0.048	0.048	0.032	0.032	0.012	0.012
Benzo(b)fluoranthene	0.1	0.00051	0.000051	0.082	0.0082	0.01	0.001	0.0078	0.00078	0.036	0.0036	0.02	0.002	0.021	0.0021
Benzo(k)fluoranthene	0.1	0.00051	0.000051	0.059	0.0059	0.007	0.0007	0.0052	0.00052	0.039	0.0039	0.024	0.0024	0.0027	0.00027
Chrysene	0.01	0.00057	0.0000057	0.049	0.00049	0.0033	0.000033	0.0077	0.000077	0.042	0.00042	0.024	0.00024	0.013	0.00013
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.009	0.0099	<0.005	0.00275	<0.005	0.00275	0.0069	0.00759	0.0081	0.00891	0.002	0.0022
Indeno(1,2,3-c,d)pyrene	0.1	0.00079	0.000079	0.059	0.0059	<0.005	0.00025	<0.005	0.00025	0.045	0.0045	0.019	0.0019	0.0093	0.00093
BaP-eq Concentration =			0.004		0.048		0.015		0.012		0.071		0.050		0.019

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-31-30										7351-31-7					
	Site ID	SBL0284		SBL0285		SBL0286		SBL0287		SBL0288		SBL0414		SBL0415		SBL0416	
	Sample Depth	1.5		1.5		1.5		1.5		1.5		1.5		1.5		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.0087	0.00087	0.00051	0.000051	0.024	0.0024	0.0062	0.00062	0.0032	0.00032	0.032	0.0032	0.25	0.025	0.042	0.0042
Benzo(a)pyrene	1	0.0095	0.0095	0.0005	0.0005	0.026	0.026	0.0061	0.0061	0.0035	0.0035	0.037	0.037	0.25	0.25	0.057	0.057
Benzo(b)fluoranthene	0.1	0.01	0.001	0.00052	0.000052	0.036	0.0036	0.01	0.001	0.0052	0.00052	0.044	0.0044	0.26	0.026	0.05	0.005
Benzo(k)fluoranthene	0.1	0.0053	0.00053	0.00046	0.000046	0.03	0.003	0.003	0.0003	0.0027	0.00027	0.029	0.0029	0.2	0.02	0.052	0.0052
Chrysene	0.01	0.014	0.00014	0.00097	0.0000097	0.053	0.00053	0.016	0.00016	0.007	0.00007	0.047	0.00047	0.24	0.0024	0.077	0.00077
Dibenzo(a,h)anthracene	1.1	0.0011	0.00121	<0.005	0.00275	0.0055	0.00605	0.0018	0.00198	0.00068	0.000748	0.013	0.0143	0.051	0.0561	0.016	0.0176
Indeno(1,2,3-c,d)pyrene	0.1	0.0041	0.00041	<0.005	0.00025	0.023	0.0023	0.0038	0.00038	0.0022	0.00022	0.034	0.0034	0.12	0.012	0.058	0.0058
BaP-eq Concentration =			0.014		0.004		0.044		0.011		0.006		0.066		0.392		0.096

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-33-17				7351-33-22						7351-33-24					
	Site ID	SBL0212		SBL0227		SBL0208		SBL0208		SBL0211		SBL0372		SBL0373		SBL0375	
	Sample Depth	1.5		7.5		1.3		9.5		1.5		2		2		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	<0.005	0.00025	<0.005	0.00025	0.0016	0.00016	0.0043	0.00043	0.0009	0.00009	0.0041	0.00041	0.0079	0.00079	0.021	0.0021
Benzo(a)pyrene	1	<0.005	0.0025	<0.005	0.0025	<0.005	0.0025	0.0035	0.0035	0.00095	0.00095	0.0057	0.0057	0.005	0.005	0.028	0.028
Benzo(b)fluoranthene	0.1	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	0.0012	0.00012	0.005	0.0005	0.012	0.0012	0.043	0.0043
Benzo(k)fluoranthene	0.1	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	0.001	0.0001	0.0019	0.00019	<0.05	0.0025	0.022	0.0022
Chrysene	0.01	0.0074	0.000074	0.0052	0.000052	0.0035	0.000035	0.0096	0.000096	0.0015	0.000015	0.0096	0.000096	0.036	0.00036	0.054	0.00054
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	0.0017	0.00187	<0.05	0.0275	0.016	0.0176
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	0.00061	0.000061	<0.005	0.00025	<0.05	0.0025	0.025	0.0025
BaP-eq Concentration =			0.006		0.006		0.006		0.008		0.004		0.009		0.040		0.057

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-33-24															
	Site ID	SBL0376		SBL0378		SBL0379		SBL0380		SBL0381		SBL0382		SBL0383		SBL0384	
	Sample Depth	1.5		5.5		2.5		2		2		1.5		11.5		15	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.001	0.0001	<0.005	0.00025	0.017	0.0017	0.01	0.001	0.003	0.0003	0.051	0.0051	0.41	0.041	0.43	0.043
Benzo(a)pyrene	1	0.00093	0.00093	<0.005	0.0025	0.0045	0.0045	0.011	0.011	<0.05	0.025	<0.5	0.25	0.042	0.042	<0.5	0.25
Benzo(b)fluoranthene	0.1	0.0012	0.00012	<0.005	0.00025	0.0052	0.00052	0.011	0.0011	<0.05	0.0025	<0.5	0.025	0.051	0.0051	0.05	0.005
Benzo(k)fluoranthene	0.1	0.00048	0.000048	<0.005	0.00025	0.0039	0.00039	0.0045	0.00045	<0.05	0.0025	<0.5	0.025	<0.5	0.025	<0.5	0.025
Chrysene	0.01	0.003	0.00003	0.00044	0.0000044	0.028	0.00028	0.024	0.00024	0.0061	0.000061	0.075	0.00075	0.56	0.0056	0.82	0.0082
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	<0.005	0.00275	<0.05	0.0275	0.0049	0.00539	<0.05	0.0275	0.055	0.0605	0.032	0.0352	0.032	0.0352
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	0.00071	0.000071	<0.05	0.0025	0.0068	0.00068	<0.05	0.0025	<0.5	0.025	<0.5	0.025	<0.5	0.025
BaP-eq Concentration =			0.004		0.006		0.037		0.020		0.060		0.391		0.179		0.391

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-33-24													
	Site ID	SBL0385		SBL0386		SBL0387			SBL0388	SBL0389		SBL0390		SBL0419	
	Sample Depth	2		1.5		2			3.5	2		2		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	<0.05	0.0025	<0.05	0.0025	0.0033	0.00033	0.00032	0.000032	0.00097	0.000097	0.067	0.0067	0.00099	0.000099
Benzo(a)pyrene	1	<0.05	0.025	<0.05	0.025	0.0018	0.0018	0.00057	0.00057	<0.005	0.0025	0.22	0.22	0.01	0.01
Benzo(b)fluoranthene	0.1	<0.05	0.0025	<0.05	0.0025	0.0015	0.00015	<0.005	0.00025	<0.005	0.00025	0.21	0.021	0.0022	0.00022
Benzo(k)fluoranthene	0.1	<0.05	0.0025	<0.05	0.0025	0.00077	0.000077	<0.005	0.00025	<0.005	0.00025	0.15	0.015	0.00087	0.000087
Chrysene	0.01	0.0041	0.000041	0.0039	0.000039	0.0059	0.000059	0.0009	0.000009	0.0019	0.000019	0.13	0.0013	0.0035	0.000035
Dibenzo(a,h)anthracene	1.1	<0.05	0.0275	<0.05	0.0275	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	0.047	0.0517	0.00079	0.000869
Indeno(1,2,3-c,d)pyrene	0.1	<0.05	0.0025	<0.05	0.0025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	0.098	0.0098	<0.005	0.00025
BaP-eq Concentration =			0.063		0.063		0.005		0.004		0.006		0.326		0.012

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-33-30				7351-33-9						7351-33-900		7351-34-15, -50, -56			
	Site ID	SBL0464		SBL0466		SBL0271		SBL0272		SBL0274		SBL0210		SBL0244		SBL0245	
	Sample Depth	1.5		1.5		4		4		2		1.5		1.5		1.7	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.0019	0.00019	0.0011	0.00011	0.0011	0.00011	0.00076	0.000076	0.0084	0.00084	0.00048	0.000048	0.018	0.0018	0.0037	0.00037
Benzo(a)pyrene	1	0.0015	0.0015	0.0014	0.0014	0.00069	0.00069	0.00081	0.00081	0.0071	0.0071	0.00093	0.00093	0.02	0.02	0.0034	0.0034
Benzo(b)fluoranthene	0.1	0.0024	0.00024	0.0017	0.00017	0.00077	0.000077	<0.005	0.00025	0.012	0.0012	<0.005	0.00025	0.023	0.0023	0.0046	0.00046
Benzo(k)fluoranthene	0.1	0.0021	0.00021	0.00099	0.000099	0.00088	0.000088	<0.005	0.00025	<0.05	0.0025	<0.005	0.00025	0.013	0.0013	0.0022	0.00022
Chrysene	0.01	0.0026	0.000026	0.0024	0.000024	0.0011	0.000011	0.0018	0.000018	0.024	0.00024	0.00084	0.0000084	0.026	0.00026	0.0075	0.000075
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.0002	0.00022	0.00064	0.000704	<0.005	0.00275	<0.05	0.0275	<0.005	0.00275	0.0039	0.00429	0.00074	0.000814
Indeno(1,2,3-c,d)pyrene	0.1	0.00069	0.000069	<0.005	0.00025	0.00051	0.000051	<0.005	0.00025	<0.05	0.0025	0.001	0.0001	0.017	0.0017	0.0022	0.00022
BaP-eq Concentration =			0.005		0.002		0.002		0.004		0.042		0.004		0.032		0.006

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-15, -50, -56												7351-34-25			
	Site ID	SBL0246		SBL0247		SBL0248		SBL0250		SBL0278		SBL0279		SBL0291		SBL0292	
	Sample Depth	1.5		3		1.5		1.5		1.5		2.5		2		2	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.059	0.0059	0.01	0.001	0.024	0.0024	0.0084	0.00084	0.0053	0.00053	0.0065	0.00065	0.0054	0.00054	0.0014	0.00014
Benzo(a)pyrene	1	0.043	0.043	0.0066	0.0066	0.028	0.028	0.01	0.01	0.0088	0.0088	0.015	0.015	0.0051	0.0051	0.0015	0.0015
Benzo(b)fluoranthene	0.1	0.049	0.0049	0.0096	0.00096	0.027	0.0027	0.0095	0.00095	0.0088	0.00088	0.0092	0.00092	0.0068	0.00068	0.0016	0.00016
Benzo(k)fluoranthene	0.1	0.034	0.0034	0.0032	0.00032	0.016	0.0016	0.0057	0.00057	0.0055	0.00055	0.0032	0.00032	0.0057	0.00057	0.001	0.0001
Chrysene	0.01	0.086	0.00086	0.03	0.0003	0.041	0.00041	0.013	0.00013	0.013	0.00013	0.02	0.0002	0.0075	0.000075	0.0031	0.000031
Dibenzo(a,h)anthracene	1.1	0.012	0.0132	0.00061	0.000671	0.0075	0.00825	0.0018	0.00198	0.0023	0.00253	0.0076	0.00836	0.0017	0.00187	0.00051	0.000561
Indeno(1,2,3-c,d)pyrene	0.1	0.031	0.0031	0.0082	0.00082	0.015	0.0015	0.0072	0.00072	0.0071	0.00071	0.0066	0.00066	0.0056	0.00056	0.001	0.0001
BaP-eq Concentration =			0.074		0.011		0.045		0.015		0.014		0.026		0.009		0.003

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-25				7351-34-43		7351-34-45				7351-34-52			
	Site ID	SBL0294		SBL0295		SBL0341		SBL0329		SBL0412		SBL0289		SBL0290	
	Sample Depth	2		2		3.5		1.5		7.2		1.5		2	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	<0.005	0.00025	0.0086	0.00086	0.035	0.0035	0.02	0.002	0.0016	0.00016	0.00091	0.000091	0.0057	0.00057
Benzo(a)pyrene	1	<0.005	0.0025	0.0054	0.0054	0.018	0.018	0.013	0.013	0.001	0.001	0.001	0.001	0.006	0.006
Benzo(b)fluoranthene	0.1	<0.005	0.00025	0.0098	0.00098	0.037	0.0037	0.0076	0.00076	0.00088	0.000088	0.0013	0.00013	0.0058	0.00058
Benzo(k)fluoranthene	0.1	<0.005	0.00025	0.0048	0.00048	0.034	0.0034	0.0063	0.00063	0.0005	0.00005	0.00071	0.000071	0.0036	0.00036
Chrysene	0.01	0.00038	0.0000038	0.013	0.00013	0.037	0.00037	0.021	0.00021	0.0016	0.000016	0.0021	0.000021	0.0093	0.000093
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.0065	0.00715	0.0092	0.01012	0.0031	0.00341	<0.005	0.00275	<0.005	0.00275	0.00097	0.001067
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	0.0029	0.00029	0.021	0.0021	0.0036	0.00036	<0.005	0.00025	0.00054	0.000054	0.0032	0.00032
BaP-eq Concentration =			0.006		0.015		0.041		0.020		0.004		0.004		0.009

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-57		7351-34-58										7351-34-63	
	Site ID	SBL0304		SBL0358		SBL0359		SBL0360		SBL0361		SBL0362		SBL0331	
	Sample Depth	5.5		3		5.5		2		4		1.5		2	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	<0.005	0.00025	0.011	0.0011	<0.005	0.00025	0.00064	0.000064	0.05	0.005	0.02	0.002	0.00092	0.000092
Benzo(a)pyrene	1	<0.005	0.0025	0.0098	0.0098	<0.005	0.0025	0.0012	0.0012	0.039	0.039	0.011	0.011	0.00097	0.00097
Benzo(b)fluoranthene	0.1	<0.005	0.00025	0.0088	0.00088	0.00056	0.000056	0.001	0.0001	0.015	0.0015	0.013	0.0013	0.0011	0.00011
Benzo(k)fluoranthene	0.1	0.00031	0.000031	0.0077	0.00077	0.00039	0.000039	0.00083	0.000083	0.01	0.001	0.013	0.0013	0.0012	0.00012
Chrysene	0.01	0.00052	0.0000052	0.016	0.00016	0.00096	0.0000096	0.0015	0.000015	0.067	0.00067	0.032	0.00032	0.0025	0.000025
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	0.0025	0.00275	<0.005	0.00275	<0.005	0.00275	0.0051	0.00561	0.0039	0.00429	0.00081	0.000891
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	0.0058	0.00058	0.00058	0.000058	0.00075	0.000075	0.0065	0.00065	0.0095	0.00095	<0.005	0.00025
BaP-eq Concentration =			0.006		0.016		0.006		0.004		0.053		0.021		0.002

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-63		7351-34-64		7351-34-65						7351-34-69			
	Site ID	SBL0406		SBL0325		SBL0318		SBL0319		SBL0321		SBL0297		SBL0298	
	Sample Depth	1.5		1.5		1.5		1.5		8.5		2		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.0035	0.00035	0.015	0.0015	0.021	0.0021	0.0036	0.00036	0.0031	0.00031	<0.025	0.00125	0.0016	0.00016
Benzo(a)pyrene	1	0.0035	0.0035	0.011	0.011	0.03	0.03	0.0055	0.0055	0.0029	0.0029	<0.025	0.0125	0.0017	0.0017
Benzo(b)fluoranthene	0.1	0.0027	0.00027	0.0079	0.00079	0.039	0.0039	0.0044	0.00044	0.0058	0.00058	0.0028	0.00028	0.0021	0.00021
Benzo(k)fluoranthene	0.1	0.0021	0.00021	0.0048	0.00048	0.03	0.003	0.0052	0.00052	0.0029	0.00029	0.0022	0.00022	0.00067	0.000067
Chrysene	0.01	0.0043	0.000043	0.02	0.0002	0.041	0.00041	0.0056	0.000056	0.0092	0.000092	0.0038	0.000038	0.0041	0.000041
Dibenzo(a,h)anthracene	1.1	0.0013	0.00143	0.0047	0.00517	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	<0.025	0.01375	0.00078	0.000858
Indeno(1,2,3-c,d)pyrene	0.1	0.002	0.0002	0.0049	0.00049	0.025	0.0025	0.0063	0.00063	0.0041	0.00041	<0.025	0.00125	0.00077	0.000077
BaP-eq Concentration =			0.006		0.020		0.045		0.010		0.007		0.029		0.003

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-69													
	Site ID	SBL0299		SBL0300		SBL0307		SBL0308		SBL0309		SBL0420		SBL0421	
	Sample Depth	6		6.5		5		11		2.2		2		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.3	0.03	0.043	0.0043	0.032	0.0032	<0.005	0.00025	2.5	0.25	0.0056	0.00056	0.0037	0.00037
Benzo(a)pyrene	1	0.15	0.15	<0.5	0.25	0.064	0.064	<0.005	0.0025	2.2	2.2	0.0079	0.0079	0.0055	0.0055
Benzo(b)fluoranthene	0.1	0.25	0.025	0.087	0.0087	0.074	0.0074	0.00058	0.000058	2.7	0.27	0.016	0.0016	0.004	0.0004
Benzo(k)fluoranthene	0.1	0.12	0.012	<0.5	0.025	0.041	0.0041	0.00049	0.000049	2.1	0.21	0.013	0.0013	0.0026	0.00026
Chrysene	0.01	0.44	0.0044	0.11	0.0011	0.13	0.0013	0.00059	0.0000059	2.8	0.028	0.015	0.00015	0.0067	0.000067
Dibenzo(a,h)anthracene	1.1	0.66	0.726	0.094	0.1034	0.092	0.1012	<0.005	0.00275	0.35	0.385	0.0027	0.00297	<0.005	0.00275
Indeno(1,2,3-c,d)pyrene	0.1	0.053	0.0053	<0.5	0.025	0.024	0.0024	<0.005	0.00025	0.97	0.097	0.0074	0.00074	0.0021	0.00021
BaP-eq Concentration =			0.953		0.418		0.184		0.006		3.440		0.015		0.010

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-69										7351-34-72					
	Site ID	SBL0443		SBL0448		SBL0449		SBL0450		SBL0454		SBL0264		SBL0265		SBL0428	
	Sample Depth	11		1.5		1.5		6.5		7.2		9		10		10	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.42	0.042	0.01	0.001	0.0041	0.00041	0.0023	0.00023	0.0037	0.00037	0.003	0.0003	0.33	0.033	0.021	0.0021
Benzo(a)pyrene	1	0.2	0.2	0.012	0.012	0.0049	0.0049	0.0033	0.0033	0.0029	0.0029	0.0024	0.0024	0.22	0.22	0.014	0.014
Benzo(b)fluoranthene	0.1	0.16	0.016	0.0055	0.00055	0.0038	0.00038	0.0031	0.00031	0.006	0.0006	0.0035	0.00035	0.14	0.014	0.015	0.0015
Benzo(k)fluoranthene	0.1	0.064	0.0064	0.0091	0.00091	0.0056	0.00056	0.0041	0.00041	0.0038	0.00038	0.0027	0.00027	0.14	0.014	0.01	0.001
Chrysene	0.01	0.34	0.0034	0.014	0.00014	0.0066	0.000066	0.006	0.00006	0.009	0.00009	0.0079	0.000079	0.37	0.0037	0.06	0.0006
Dibenzo(a,h)anthracene	1.1	<0.5	0.275	<0.005	0.00275	0.001	0.0011	0.0034	0.00374	0.0067	0.00737	<0.005	0.00275	0.0069	0.00759	0.0031	0.00341
Indeno(1,2,3-c,d)pyrene	0.1	<0.5	0.025	0.0022	0.00022	0.0024	0.00024	0.00079	0.000079	0.00074	0.000074	0.0011	0.00011	0.056	0.0056	<0.05	0.0025
BaP-eq Concentration =			0.568		0.018		0.008		0.008		0.012		0.006		0.298		0.025

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-72				7351-34-74											
	Site ID	SBL0429		SBL0442		SBL0418		SBL0435		SBL0436		SBL0437		SBL0438		SBL0440	
	Sample Depth	1.5		1.5		1.5		1.5		1.5		6		1.5		8.6	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.0088	0.00088	0.0016	0.00016	0.034	0.0034	0.01	0.001	0.0059	0.00059	0.0054	0.00054	0.0021	0.00021	0.086	0.0086
Benzo(a)pyrene	1	0.0084	0.0084	0.0013	0.0013	0.019	0.019	<0.05	0.025	0.0055	0.0055	0.0056	0.0056	0.0029	0.0029	0.031	0.031
Benzo(b)fluoranthene	0.1	0.0096	0.00096	0.0025	0.00025	0.027	0.0027	<0.05	0.0025	<0.05	0.0025	0.0052	0.00052	0.0047	0.00047	0.034	0.0034
Benzo(k)fluoranthene	0.1	0.0051	0.00051	0.00093	0.000093	0.036	0.0036	<0.05	0.0025	<0.05	0.0025	0.0024	0.00024	0.0033	0.00033	0.022	0.0022
Chrysene	0.01	0.012	0.00012	0.0043	0.000043	0.1	0.001	0.017	0.00017	0.017	0.00017	0.012	0.00012	0.0057	0.000057	0.084	0.00084
Dibenzo(a,h)anthracene	1.1	0.0019	0.00209	0.0005	0.00055	0.014	0.0154	<0.05	0.0275	0.0028	0.00308	0.0015	0.00165	0.00071	0.000781	0.016	0.0176
Indeno(1,2,3-c,d)pyrene	0.1	0.0058	0.00058	<0.005	0.00025	<0.06	0.003	<0.05	0.0025	0.0067	0.00067	0.0032	0.00032	0.00096	0.000096	0.018	0.0018
BaP-eq Concentration =			0.014		0.003		0.048		0.061		0.015		0.009		0.005		0.065

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-74						7351-34-76									
	Site ID	SBL0444		SBL0445		SBL0447		SBL0326		SBL0327		SBL0328		SBL0423		SBL0433	
	Sample Depth	1.5		1.5		1.5		2		2		2		1.5		1.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.0016	0.00016	0.0018	0.00018	0.0029	0.00029	0.00033	0.000033	<0.005	0.00025	1	0.1	<0.005	0.00025	0.0006	0.00006
Benzo(a)pyrene	1	<0.005	0.0025	<0.005	0.0025	<0.005	0.0025	<0.005	0.0025	<0.005	0.0025	0.74	0.74	<0.005	0.0025	<0.005	0.0025
Benzo(b)fluoranthene	0.1	<0.005	0.00025	0.002	0.0002	0.0012	0.00012	<0.005	0.00025	<0.005	0.00025	0.29	0.029	<0.005	0.00025	<0.005	0.00025
Benzo(k)fluoranthene	0.1	<0.005	0.00025	0.0029	0.00029	0.0016	0.00016	<0.005	0.00025	<0.005	0.00025	0.29	0.029	<0.005	0.00025	<0.005	0.00025
Chrysene	0.01	0.002	0.00002	0.011	0.00011	0.0032	0.000032	0.00043	0.0000043	0.00066	0.0000066	1.1	0.011	<0.005	0.000025	0.0011	0.000011
Dibenzo(a,h)anthracene	1.1	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	<0.005	0.00275	0.025	0.0275	0.00029	0.000319	<0.005	0.00275
Indeno(1,2,3-c,d)pyrene	0.1	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	<0.005	0.00025	0.15	0.015	<0.005	0.00025	0.00073	0.000073
BaP-eq Concentration =			0.006		0.006		0.006		0.006		0.006		0.952		0.004		0.006

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	7351-34-803				Francisco St		Knox St		Magellan Dr					
	Site ID	SBL0322		SBL0405		SBL0263		SBL0441		SBL0251		SBL0252		SBL0253	
	Sample Depth	1.5		1.5		1.5		1.5		3.5		5.5		6	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.035	0.0035	0.016	0.0016	0.004	0.0004	0.00073	0.000073	0.015	0.0015	0.0006	0.00006	0.0049	0.00049
Benzo(a)pyrene	1	0.26	0.26	0.03	0.03	0.0046	0.0046	0.00081	0.00081	0.01	0.01	<0.005	0.0025	0.0038	0.0038
Benzo(b)fluoranthene	0.1	0.053	0.0053	0.023	0.0023	0.0067	0.00067	0.00096	0.000096	0.034	0.0034	0.00069	0.000069	0.0057	0.00057
Benzo(k)fluoranthene	0.1	0.059	0.0059	0.036	0.0036	0.0045	0.00045	0.00063	0.000063	0.013	0.0013	0.0005	0.00005	0.0039	0.00039
Chrysene	0.01	0.079	0.00079	0.029	0.00029	0.011	0.00011	0.0014	0.000014	0.038	0.00038	0.00092	0.0000092	0.011	0.00011
Dibenzo(a,h)anthracene	1.1	<0.02	0.011	0.013	0.0143	0.001	0.0011	<0.005	0.00275	0.026	0.0286	0.00028	0.000308	0.0037	0.00407
Indeno(1,2,3-c,d)pyrene	0.1	0.0059	0.00059	0.02	0.002	0.0026	0.00026	<0.005	0.00025	0.0063	0.00063	<0.005	0.00025	0.0018	0.00018
BaP-eq Concentration =			0.287		0.054		0.008		0.004		0.046		0.003		0.010

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2
their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of
individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. =
sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	Magellan Dr															
	Site ID	SBL0254		SBL0255		SBL0256		SBL0257		SBL0258		SBL0260		SBL0323		SBL0324	
	Sample Depth	10		1.5		1.5		1.5		1.5		3.5		4.5		5.5	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	0.001	0.0001	0.092	0.0092	0.037	0.0037	0.14	0.014	0.05	0.005	0.0032	0.00032	0.0056	0.00056	<0.005	0.00025
Benzo(a)pyrene	1	0.00069	0.00069	0.095	0.095	0.039	0.039	0.064	0.064	0.033	0.033	0.0025	0.0025	0.0041	0.0041	<0.005	0.0025
Benzo(b)fluoranthene	0.1	0.0011	0.00011	0.13	0.013	0.056	0.0056	0.11	0.011	0.053	0.0053	0.005	0.0005	0.0026	0.00026	<0.005	0.00025
Benzo(k)fluoranthene	0.1	0.0012	0.00012	0.085	0.0085	0.049	0.0049	0.091	0.0091	0.037	0.0037	0.0039	0.00039	0.0018	0.00018	<0.005	0.00025
Chrysene	0.01	0.0012	0.000012	0.13	0.0013	0.14	0.0014	0.26	0.0026	0.11	0.0011	0.0072	0.000072	0.0076	0.000076	0.00043	0.0000043
Dibenzo(a,h)anthracene	1.1	<0.006	0.0033	0.019	0.0209	<0.25	0.1375	0.023	0.0253	0.0089	0.00979	<0.0058	0.00319	0.00041	0.000451	<0.005	0.00275
Indeno(1,2,3-c,d)pyrene	0.1	0.0012	0.00012	0.066	0.0066	<0.25	0.0125	0.048	0.0048	0.022	0.0022	0.0011	0.00011	0.00081	0.000081	<0.005	0.00025
BaP-eq Concentration =			0.004		0.155		0.205		0.131		0.060		0.007		0.006		0.006

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-2b
Derivation of BaP-Equivalent Concentrations
PAH Detections in Subsurface Soil
Baseline Risk Assessment
Del Amo Site

PAHs	Parcel	Magellan Dr				Pacific Gateway (N)				Pacific Gateway (S)			
	Site ID	SBL0330		SBL0410		SBL0261		SBL0262		SBL0451		SBL0453	
	Sample Depth	2.5		2.5		1.5		2.5		2		2	
	TEF	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted	Conc.	Converted
Benzo(a)anthracene	0.1	3.9	0.39	0.047	0.0047	0.1	0.01	0.031	0.0031	0.0032	0.00032	0.0076	0.00076
Benzo(a)pyrene	1	2.6	2.6	0.022	0.022	0.095	0.095	0.029	0.029	0.0023	0.0023	0.0062	0.0062
Benzo(b)fluoranthene	0.1	1.2	0.12	0.014	0.0014	0.09	0.009	0.036	0.0036	0.0021	0.00021	0.0054	0.00054
Benzo(k)fluoranthene	0.1	1.4	0.14	0.021	0.0021	0.12	0.012	0.032	0.0032	0.0032	0.00032	0.0078	0.00078
Chrysene	0.01	4.6	0.046	0.05	0.0005	0.22	0.0022	0.042	0.00042	0.0073	0.000073	0.017	0.00017
Dibenzo(a,h)anthracene	1.1	0.15	0.165	0.008	0.0088	0.021	0.0231	0.005	0.0055	0.0006	0.00066	0.0024	0.00264
Indeno(1,2,3-c,d)pyrene	0.1	0.52	0.052	0.012	0.0012	0.077	0.0077	0.016	0.0016	0.00066	0.000066	0.0024	0.00024
BaP-eq Concentration =			3.513		0.041		0.159		0.046		0.004		0.011

Notes:

TEF: toxicity equivalent factor

<: less than method detection limit listed

If individual PAH was not detected, 1/2 their MDL was used as surrogate conc.

"Converted" concentration = "Conc." of individual PAH compound x TEF

BaP-eq Concentration:
Benzo(a)pyrene equivalent conc. = sum of the Converted PAH concs.

Units in mg/kg

Table D-3a
Predicted Blood Lead Levels
Commercial Worker Scenario
Baseline Risk Assessment
Del Amo Site

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	ug/g or ppm	492	492	492	492
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.1	2.3	2.1	2.3
PbB_0	X	X	Baseline PbB	ug/dL	1.5	1.7	1.5	1.7
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100	--	--
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.100	0.100
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**ug/dL**	**3.1**	**3.3**	**3.1**	**3.3**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**ug/dL**	**9.5**	**11.8**	**9.5**	**11.8**
PbB_t	**Target PbB level of concern (e.g., 10 ug/dL)**			**ug/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**4.3%**	**7.3%**	**4.3%**	**7.3%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table D-3b
Predicted Blood Lead Levels
Hypothetical Residential Scenario
Baseline Risk Assessment
Del Amo Site

LEAD RISK ASSESSMENT SPREADSHEET

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USER'S GUIDE to version 7

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m^3)	0.028
Lead in Soil/Dust (ug/g)	586
Lead in Water (ug/l)	15
% Home-grown Produce	7%
Respirable Dust (ug/m^3)	1.5

OUTPUT							
	Percentile Estimate of Blood Pb (ug/dl)					PRG-99	PRG-95
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT	3.6	6.5	7.7	9.4	11	534	839
BLOOD Pb, CHILD	13	24	28	34	39	93	158
BLOOD Pb, PICA CHILD	13	24	28	34	39	93	158

EXPOSURE PARAMETERS			
	units	adults	children
Days per week	days/wk	7	
Days per week, occupational			
Geometric Standard Deviation		1.6	
Blood lead level of concern (ug/dl)		10	
Skin area, residential	cm^2	5700	2800
Skin area occupational	cm^2		
Soil adherence	ug/cm^2	70	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.00011	
Soil ingestion	kg/day	100	200
Soil ingestion, pica	kg/day		200
Ingestion constant	(ug/dl)/(ug/day)	0.04	0.16
Bioavailability	unitless	0.44	
Breathing rate	m^3/day	20	10
Inhalation constant	(ug/dl)/(ug/day)	0.08	0.192
Water ingestion	l/day	1.4	0.4
Food ingestion	kg/day	1.9	1.1
Lead in market basket	ug/kg	3.1	
Lead in produce	ug/kg	264	

PATHWAYS						
ADULTS	Residential					
	Pathway contribution					
Pathway	PEF	ug/dl	percent			
Soil Contact	4.2E-5	0.02	1%			
Soil Ingestion	1.8E-3	1.03	29%			
Inhalation1		0.05	1%			
Inhalation	2.5E-6	0.00	0%			
Water Ingestion		0.84	24%			
Food Ingestion1		0.22	6%			
Food Ingestion	2.4E-3	1.40	39%			
CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	5.9E-5	0.03	0%		0.03	0%
Soil Ingestion	1.4E-2	8.25	63%	1.4E-2	8.25	63%
Inhalation1	1.5E-6	0.00	0%		0.00	0%
Inhalation		0.05	0%		0.05	0%
Water Ingestion		0.96	7%		0.96	7%
Food Ingestion, child		0.50	4%		0.50	4%
Food Ingestion	5.5E-3	3.25	25%		3.25	25%

Table D-3c
Predicted Blood Lead Levels
Trench Worker Scenario
Baseline Risk Assessment
Del Amo Site

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	ug/g or ppm	586	586	586	586
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.1	2.3	2.1	2.3
PbB_0	X	X	Baseline PbB	ug/dL	1.5	1.7	1.5	1.7
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.330	0.330	--	--
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.330	0.330
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	20	20	20	20
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**ug/dL**	**2.0**	**2.2**	**2.0**	**2.2**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**ug/dL**	**6.1**	**7.8**	**6.1**	**7.8**
PbB_t	**Target PbB level of concern (e.g., 10 ug/dL)**			**ug/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**1.1%**	**2.6%**	**1.1%**	**2.6%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Parcel: 7351-31-18	**EAPC No.:** 1

RME Exposure Scenario

TABLE 7.1.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
	(Total)										1.5E-02
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	9.7E-08	mg/kg-day	1.0E-03	mg/kg-day	9.7E-05
	(Total)										9.7E-05
										Total Hazard Index Across All Exposure Routes/Pathways	1.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.5E+01	mg/kg	2.3E-08	mg/m^3	R	3.3E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	5.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-04
	1,3,5-Trimethylbenzene	3.3E-07	mg/m^3	3.3E-07	mg/m^3	M	4.8E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.8E-05
	1,4-Dichlorobenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.9E-07	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	8.1E-07
	Freon 11 (TCFM)	8.8E-05	mg/m^3	8.8E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.5E-05
	Freon 12 (DCDFM)	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	2.9E-05
	Tetrachloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.1E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.1E-04
	Trichloroethene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.8E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.0E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.9E-04	mg/kg-day	1.0E-03	mg/kg-day	1.9E-01
	(Total)										1.9E-01
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.4E-07	mg/kg-day	1.0E-03	mg/kg-day	5.4E-04
	(Total)										5.4E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.5E+01	mg/kg	2.3E-08	mg/m^3	R	1.4E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	1,3,5-Trimethylbenzene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	4.9E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.9E-04
	1,4-Dichlorobenzene	3.0E-06	mg/m^3	3.0E-06	mg/m^3	M	1.9E-06	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	8.3E-06
	Freon 11 (TCFM)	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.6E-04
	Freon 12 (DCDFM)	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.7E-05	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	2.9E-04
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	3.3E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	9.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.9E-06	mg/kg-day	1.0E-03	mg/kg-day	3.9E-03
	(Total)										3.9E-03
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.2E-08	mg/kg-day	1.0E-03	mg/kg-day	1.2E-05
	(Total)										1.2E-05
										Total Hazard Index Across All Exposure Routes/Pathways	3.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.1.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.5E+01	mg/kg	3.0E-08	mg/m^3	R	4.8E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	8.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	8.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.1.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.2E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.5E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	2.3E-08	mg/m^3	R	1.2E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.8E-08
										Total Risk Across All Exposure Routes/Pathways	1.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.3E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	3.3E-07	mg/m^3	3.3E-07	mg/m^3	M	1.7E-08	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	6.6E-08	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	2.6E-09
	Freon 11 (TCFM)	8.8E-05	mg/m^3	8.8E-05	mg/m^3	M	4.6E-06	mg/kg-day	--	--	--
	Freon 12 (DCDFM)	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	5.9E-07	mg/kg-day	--	--	--
	Tetrachloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	7.6E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
	Trichloroethene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	6.4E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.5E-09
										Total Risk Across All Exposure Routes/Pathways	2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	2.3E-05	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	7.4E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	2.3E-08	mg/m^3	R	3.3E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	3.0E-06	mg/m^3	3.0E-06	mg/m^3	M	4.4E-07	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	1.8E-08
	Freon 11 (TCFM)	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.1E-05	mg/kg-day	--	--	--
	Freon 12 (DCDFM)	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.9E-06	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	7.8E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.5E-08
										Total Risk Across All Exposure Routes/Pathways	3.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.5E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	3.0E-08	mg/m^3	R	6.8E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.0E-10
										Total Risk Across All Exposure Routes/Pathways	1.0E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.1.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-18
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.5E-02	--	9.7E-05	1.5E-02
			(Total)	--	--	--	--	(Total)		1.5E-02	--	9.7E-05	1.5E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.8E-08	--	1.8E-08	Cadmium	Kidney	--	5.8E-04	--	5.8E-04
			(Total)	--	1.8E-08	--	1.8E-08	(Total)		--	5.8E-04	--	5.8E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-04	--	2.1E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.8E-05	--	2.8E-05
			1,4-Dichlorobenzene	--	2.6E-09	--	2.6E-09	1,4-Dichlorobenzene	Liver	--	8.1E-07	--	8.1E-07
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	6.5E-05	--	6.5E-05
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	2.9E-05	--	2.9E-05
			Tetrachloroethene	--	1.6E-08	--	1.6E-08	Tetrachloroethene	Liver/Kidney	--	2.1E-04	--	2.1E-04
			Trichloroethene	--	4.5E-09	--	4.5E-09	Trichloroethene	CNS	--	1.0E-05	--	1.0E-05
			(Total)	--	2.3E-08	--	2.3E-08	(Total)		--	5.6E-04	--	5.6E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.8E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.5E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.3E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.6E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.1.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.9E-01	--	5.4E-04	1.9E-01
			(Total)	--	--	--	--	(Total)		1.9E-01	--	5.4E-04	1.9E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	5.0E-08	--	5.0E-08	Cadmium	Kidney	--	2.5E-03	--	2.5E-03
			(Total)	--	5.0E-08	--	5.0E-08	(Total)		--	2.5E-03	--	2.5E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.9E-04	--	2.9E-04
			1,4-Dichlorobenzene	--	1.8E-08	--	1.8E-08	1,4-Dichlorobenzene	Liver	--	8.3E-06	--	8.3E-06
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	6.6E-04	--	6.6E-04
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	2.9E-04	--	2.9E-04
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Trichloroethene	--	5.5E-08	--	5.5E-08	Trichloroethene	CNS	--	2.0E-04	--	2.0E-04
			(Total)	--	3.4E-07	--	3.4E-07	(Total)		--	9.1E-03	--	9.1E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.0E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.9E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.4E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.1E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.1.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	3.9E-03	--	1.2E-05	3.9E-03
			(Total)	--	--	--	--	(Total)		3.9E-03	--	1.2E-05	3.9E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.0E-10	--	1.0E-10	Cadmium	Kidney	--	8.3E-05	--	8.3E-05
			(Total)	--	1.0E-10	--	1.0E-10	(Total)		--	8.3E-05	--	8.3E-05
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	1.0E-10					Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.0E-03
						Total Risk for Indoor Air =	--					Total Hazard Index for Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-20	**EAPC No.:** 2

RME Exposure Scenario

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	7.4E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.8E-01	mg/kg	4.8E-01	mg/kg	M	4.7E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	4.1E-07	mg/kg-day	--	--	--
	Chrysene	--	--	--	--	M	--	--	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	7.3E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	5.1E-01	mg/kg	M	5.0E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	6.4E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.8E-01	mg/kg	4.8E-01	mg/kg	M	4.0E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	3.5E-07	mg/kg-day	--	--	--
	Chrysene	--	--	--	--	M	--	--	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	6.3E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	5.1E-01	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.6E-01	mg/kg	1.1E-09	mg/m^3	R	1.7E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	4.8E-01	mg/kg	7.2E-10	mg/m^3	R	1.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.2E-01	mg/kg	6.3E-10	mg/m^3	R	9.3E-11	mg/kg-day	--	--	--	--	--
	Chrysene	--	mg/kg	--	mg/m^3	M	--	--	--	--	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.7E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	7.7E-10	mg/m^3	R	1.1E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
	Mercury	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.8E-03
	Thallium	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.0E-06	mg/kg-day	8.0E-05	mg/kg-day	1.3E-02
	SVOCs										
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	9.8E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	4.7E-06	mg/kg-day	--	--	--
	Chrysene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	3.4E-03	mg/kg	M	3.3E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	(Total)										5.4E-02
Dermal	**Inorganics**										
	Arsenic	1.1E+01	mg/kg	1.1E+01	mg/kg	M	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.0E-03
	Mercury	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
	Thallium	1.1E+00	mg/kg	1.1E+00	mg/kg	M	6.8E-08	mg/kg-day	8.0E-05	mg/kg-day	8.5E-04
	SVOCs										
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	8.4E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	Chrysene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	3.4E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	3.4E-03	mg/kg	M	2.9E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	1.6E-05	mg/kg-day	--	--	--
	(Total)										8.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.1E+01	mg/kg	1.6E-08	mg/m^3	R	2.4E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.8E-04
	Mercury	1.8E+00	mg/kg	2.7E-09	mg/m^3	R	3.9E-10	mg/kg-day	2.6E-05	mg/kg-day	9.0E-05	mg/m3	1.5E-05
	Thallium	1.1E+00	mg/kg	1.6E-09	mg/m^3	R	2.3E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	2.5E+00	mg/kg	3.7E-09	mg/m^3	R	5.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	2.9E-09	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	2.2E-09	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.8E+00	mg/kg	7.2E-09	mg/m^3	R	1.1E-09	mg/kg-day	--	--	--	--	--
	Chrysene	4.1E+00	mg/kg	6.1E-09	mg/m^3	R	9.0E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	5.1E-12	mg/m^3	R	7.5E-13	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	4.2E-09	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	4.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.2E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	8.9E-01	mg/m^3	8.9E-01	mg/m^3	M	1.3E-01	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.6E-01
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-01
	Cyclohexane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.9E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.1E-03
	Ethylbenzene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.5E-03
	Methyl Ethyl Ketone	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	3.7E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	2.6E-03
	Methylene Chloride	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	5.0E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.4E-02
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	7.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.1E-03
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-01
	Toluene	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	6.1E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.1E-02
	Trichloroethene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	6.5E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.8E-03
	Xylenes	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	8.8E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	3.0E-04	mg/kg-day	6.0E-01
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.8E-05	mg/kg-day	8.0E-05	mg/kg-day	2.2E-01
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	6.1E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.7E-04	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	1.3E-04	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	8.6E-05	mg/kg-day	--	--	--
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	8.2E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	2.4E-04	mg/kg-day	--	--	--
	(Total)										9.4E-01
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.0E-02
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	5.0E-07	mg/kg-day	8.0E-05	mg/kg-day	6.3E-03
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.1E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	4.7E-05	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	3.1E-05	mg/kg-day	--	--	--
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	3.0E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.9E-06	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	8.8E-05	mg/kg-day	--	--	--
	(Total)										6.0E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.6E-03
	Mercury	2.9E+00	mg/kg	4.4E-09	mg/m^3	R	2.8E-09	mg/kg-day	2.6E-05	mg/kg-day	9.0E-05	mg/m3	1.1E-04
	Thallium	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	1.3E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	4.8E+00	mg/kg	7.2E-09	mg/m^3	R	4.6E-09	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.2E-08	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	9.6E-09	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	6.4E-09	mg/kg-day	--	--	--	--	--
	Chrysene	6.4E+00	mg/kg	9.6E-09	mg/m^3	R	6.1E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	2.6E-09	mg/m^3	R	1.6E-09	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	1.8E-08	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	7.1E-05	mg/m^3	7.1E-05	mg/m^3	M	4.6E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	7.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-07	mg/kg-day	8.0E-05	mg/kg-day	4.5E-03
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.4E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.4E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	4.9E-06	mg/kg-day	--	--	--
	(Total)										1.9E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.5E-05
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	4.8E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	6.7E-07	mg/kg-day	--	--	--
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	6.4E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	(Total)										1.3E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.2.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	5.2E-05
	Mercury	2.9E+00	mg/kg	5.9E-09	mg/m^3	R	9.2E-11	mg/kg-day	2.6E-05	mg/kg-day	9.0E-05	mg/m3	3.6E-06
	Thallium	1.4E+00	mg/kg	2.8E-09	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	4.8E+00	mg/kg	9.7E-09	mg/m^3	R	1.5E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.3E+01	mg/kg	2.6E-08	mg/m^3	R	4.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E+01	mg/kg	2.0E-08	mg/m^3	R	3.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	6.7E+00	mg/kg	1.4E-08	mg/m^3	R	2.1E-10	mg/kg-day	--	--	--	--	--
	Chrysene	6.4E+00	mg/kg	1.3E-08	mg/m^3	R	2.0E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	3.4E-09	mg/m^3	R	5.4E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	3.8E-08	mg/m^3	R	6.0E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	5.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.3E-07
	Benzo(a)pyrene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	2.7E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.2E-06
	Benzo(b)fluoranthene	4.8E-01	mg/kg	4.8E-01	mg/kg	M	1.7E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.0E-07
	Benzo(k)fluoranthene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-07
	Chrysene	--	mg/kg	--	mg/kg	M	--	--	1.2E-01	mg/kg-day^{-1}	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.6E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.1E-07
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	5.1E-01	mg/kg	M	1.8E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.1E-07
	(Total)										4.0E-06
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	9.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.1E-07
	Benzo(a)pyrene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	2.3E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.7E-06
	Benzo(b)fluoranthene	4.8E-01	mg/kg	4.8E-01	mg/kg	M	1.4E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.7E-07
	Benzo(k)fluoranthene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.3E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.5E-07
	Chrysene	--	mg/kg	--	mg/kg	M	--	--	1.2E-01	mg/kg-day^{-1}	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.2E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	9.2E-08
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	5.1E-01	mg/kg	M	1.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-07
	(Total)										3.4E-06
										Total Risk Across All Exposure Routes/Pathways	7.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-12
	Benzo(a)pyrene	7.6E-01	mg/kg	1.1E-09	mg/m^3	R	6.0E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-10
	Benzo(b)fluoranthene	4.8E-01	mg/kg	7.2E-10	mg/m^3	R	3.8E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.5E-11
	Benzo(k)fluoranthene	4.2E-01	mg/kg	6.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.3E-11
	Chrysene	--	mg/kg	--	mg/m^3	M	--	--	3.9E-02	$mg/kg\text{-}day^{-1}$	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	5.9E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.4E-11
	Indeno(1,2,3-cd)pyrene	5.1E-01	mg/kg	7.7E-10	mg/m^3	R	4.0E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.6E-11
										Total Risk Across All Exposure Routes/Pathways	3.1E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.1E+01	mg/kg	1.1E+01	mg/kg	M	3.8E-06	mg/kg-day	1.5E+00	mg/kg-day^{-1}	5.7E-06
	Mercury	1.8E+00	mg/kg	1.8E+00	mg/kg	M	6.2E-07	mg/kg-day	--	--	--
	Thallium	1.1E+00	mg/kg	1.1E+00	mg/kg	M	3.7E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	8.6E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.0E-06
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.5E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.5E-05
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	3.5E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.2E-06
	Benzo(k)fluoranthene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	1.7E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.0E-06
	Chrysene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	1.4E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.7E-07
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	3.4E-03	mg/kg	M	1.2E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	4.9E-09
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	6.6E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.0E-06
	(Total)										7.6E-05
Dermal	**Inorganics**										
	Arsenic	1.1E+01	mg/kg	1.1E+01	mg/kg	M	7.5E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.1E-06
	Mercury	1.8E+00	mg/kg	1.8E+00	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	Thallium	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.4E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	7.4E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.9E-07
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.9E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.7E-05
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	3.0E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-06
	Benzo(k)fluoranthene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	1.4E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.7E-06
	Chrysene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	1.2E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.5E-07
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	3.4E-03	mg/kg	M	1.0E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	4.2E-09
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	5.7E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.8E-06
	(Total)										6.1E-05
										Total Risk Across All Exposure Routes/Pathways	1.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.1E+01	mg/kg	1.6E-08	mg/m^3	R	8.5E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.0E-08
	Mercury	1.8E+00	mg/kg	2.7E-09	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--
	Thallium	1.1E+00	mg/kg	1.6E-09	mg/m^3	R	8.3E-11	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E+00	mg/kg	3.7E-09	mg/m^3	R	1.9E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.6E-11
	Benzo(a)pyrene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.0E-09
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	7.9E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.1E-10
	Benzo(k)fluoranthene	4.8E+00	mg/kg	7.2E-09	mg/m^3	R	3.8E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.5E-10
	Chrysene	4.1E+00	mg/kg	6.1E-09	mg/m^3	R	3.2E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.3E-11
	Dibenzo(a,h)anthracene	3.4E-03	mg/kg	5.1E-12	mg/m^3	R	2.7E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.1E-12
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	1.5E-09	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.8E-10
										Total Risk Across All Exposure Routes/Pathways	1.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	1.6E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.0E-08
										Total Risk Across All Exposure Routes/Pathways	3.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
TABLE 8.2.1.RME
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	8.9E-01	mg/m^3	8.9E-01	mg/m^3	M	4.7E-02	mg/kg-day	--	--	--
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.3E-05
	Cyclohexane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	6.8E-04	mg/kg-day	--	--	--
	Ethylbenzene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Methylene Chloride	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	1.8E-03	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	6.2E-06
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	2.8E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	4.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.6E-06
	Toluene	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	2.2E-03	mg/kg-day	--	--	--
	Trichloroethene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	2.3E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.6E-06
	Xylenes	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	5.3E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.3E-05
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.5E-06	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	7.5E-06	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	9.0E-06
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	2.0E-05	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	2.4E-04
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	1.6E-05	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.9E-05
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.0E-05	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.3E-05
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	1.0E-05	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.2E-06
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.7E-06	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	1.1E-05
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	3.0E-05	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.6E-05
	(Total)										3.7E-04
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.4E-07	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	3.1E-06	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.7E-06
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	8.4E-06	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	1.0E-04
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	6.4E-06	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	7.7E-06
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	4.3E-06	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.2E-06
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	4.1E-06	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	4.9E-07
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.1E-06	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	4.5E-06
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	1.2E-05	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.5E-05
	(Total)										1.4E-04
										Total Risk Across All Exposure Routes/Pathways	5.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.8E-08
	Mercury	2.9E+00	mg/kg	4.4E-09	mg/m^3	R	6.5E-10	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	3.1E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	7.2E-09	mg/m^3	R	1.1E-09	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.2E-10
	Benzo(a)pyrene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	2.9E-09	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.1E-08
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	2.2E-09	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.7E-10
	Benzo(k)fluoranthene	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.8E-10
	Chrysene	6.4E+00	mg/kg	9.6E-09	mg/m^3	R	1.4E-09	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	5.6E-11
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	2.6E-09	mg/m^3	R	3.8E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-09
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	4.2E-09	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-09
										Total Risk Across All Exposure Routes/Pathways	5.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	7.1E-05	mg/m^3	7.1E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.0E-07
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.7E-08
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	5.2E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	1.8E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.1E-08
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.8E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.8E-07
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	3.7E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.4E-08
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	2.5E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.0E-08
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	2.4E-08	mg/kg-day	1.2E-01	mg/kg-day^{-1}	2.8E-09
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.3E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.6E-08
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.4E-08
	(Total)										8.6E-07
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.6E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.0E-09
	Mercury	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.2E-10	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.5E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	4.8E+00	mg/kg	M	6.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.3E-09
	Benzo(a)pyrene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.9E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.2E-07
	Benzo(b)fluoranthene	1.0E+01	mg/kg	1.0E+01	mg/kg	M	1.4E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.7E-08
	Benzo(k)fluoranthene	6.7E+00	mg/kg	6.7E+00	mg/kg	M	9.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-08
	Chrysene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	9.2E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.1E-09
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.4E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.0E-08
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	1.9E+01	mg/kg	M	2.7E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.3E-08
	(Total)										3.1E-07
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.6E-11
	Mercury	2.9E+00	mg/kg	5.9E-09	mg/m^3	R	1.3E-12	mg/kg-day	--	--	--
	Thallium	1.4E+00	mg/kg	2.8E-09	mg/m^3	R	6.3E-13	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	4.8E+00	mg/kg	9.7E-09	mg/m^3	R	2.2E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.5E-13
	Benzo(a)pyrene	1.3E+01	mg/kg	2.6E-08	mg/m^3	R	5.9E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-11
	Benzo(b)fluoranthene	1.0E+01	mg/kg	2.0E-08	mg/m^3	R	4.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-12
	Benzo(k)fluoranthene	6.7E+00	mg/kg	1.4E-08	mg/m^3	R	3.0E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-12
	Chrysene	6.4E+00	mg/kg	1.3E-08	mg/m^3	R	2.9E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.1E-13
	Dibenzo(a,h)anthracene	1.7E+00	mg/kg	3.4E-09	mg/m^3	R	7.7E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.2E-12
	Indeno(1,2,3-cd)pyrene	1.9E+01	mg/kg	3.8E-08	mg/m^3	R	8.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.4E-12
										Total Risk Across All Exposure Routes/Pathways	1.1E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.2.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.3E-07	--	1.1E-07	2.4E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	3.2E-06	--	2.7E-06	5.9E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.0E-07	--	1.7E-07	3.7E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.8E-07	--	1.5E-07	3.3E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	--	--	--	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.1E-07	--	9.2E-08	2.0E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.1E-07	--	1.8E-07	4.0E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	4.0E-06	--	3.4E-06	7.5E-06	(Total)		--	--	--	--
	Outdoor Air	Surface soil vapors	**SVOCs**					**SVOCs**					
		and particulates in	Benzo(a)anthracene	--	9.5E-12	--	9.5E-12	Benzo(a)anthracene	--	--	--	--	--
		Ambient Air	Benzo(a)pyrene	--	2.3E-10	--	2.3E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.5E-11	--	1.5E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.3E-11	--	1.3E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	--	--	--	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.4E-11	--	2.4E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.6E-11	--	1.6E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	3.1E-10	--	3.1E-10	(Total)		--	--	--	--
Surface and	Surface and	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
Subsurface Sc	Subsurface Soil		Arsenic	5.7E-06	--	1.1E-06	6.8E-06	Arsenic	Skin	3.5E-02	--	7.0E-03	4.2E-02
			Mercury	--	--	--	--	Mercury	Autoimmune	5.8E-03	--	3.8E-04	6.2E-03
			Thallium	--	--	--	--	Thallium	NOAEL	1.3E-02	--	8.5E-04	1.4E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.0E-06	--	8.9E-07	1.9E-06	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	5.5E-05	--	4.7E-05	1.0E-04	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.2E-06	--	3.6E-06	7.8E-06	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.0E-06	--	1.7E-06	3.8E-06	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.7E-07	--	1.5E-07	3.2E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	4.9E-09	--	4.2E-09	9.1E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	8.0E-06	--	6.8E-06	1.5E-05	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	7.6E-05	--	6.1E-05	1.4E-04	(Total)		5.4E-02	--	8.2E-03	6.2E-02

TABLE 9.2.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.0E-08	--	1.0E-08	Arsenic	Developmental	--	2.8E-04	--	2.8E-04
			Mercury	--	--	--	--	Mercury	Nervous System	--	1.5E-05	--	1.5E-05
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	7.6E-11	--	7.6E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.0E-09	--	4.0E-09	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.1E-10	--	3.1E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.5E-10	--	1.5E-10	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.3E-11	--	1.3E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.1E-12	--	1.1E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	5.8E-10	--	5.8E-10	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.5E-08	--	1.5E-08	(Total)		--	2.9E-04	--	2.9E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	3.0E-08	--	3.0E-08	Chloroform	Kidney	--	5.2E-05	--	5.2E-05
			(Total)	--	3.0E-08	--	3.0E-08	(Total)		--	5.2E-05	--	5.2E-05
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	4.6E-01	--	4.6E-01
			Benzene	--	6.3E-05	--	6.3E-05	Benzene	Blood	--	1.0E-01	--	1.0E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.1E-03	--	1.1E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.5E-03	--	6.5E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	2.6E-03	--	2.6E-03
			Methylene Chloride	--	6.2E-06	--	6.2E-06	Methylene Chloride	Liver	--	4.4E-02	--	4.4E-02
			Styrene	--	--	--	--	Styrene	CNS	--	3.1E-03	--	3.1E-03
			Tetrachloroethene	--	8.6E-06	--	8.6E-06	Tetrachloroethene	Liver/Kidney	--	1.1E-01	--	1.1E-01
			Toluene	--	--	--	--	Toluene	CNS	--	7.1E-02	--	7.1E-02
			Trichloroethene	--	1.6E-06	--	1.6E-06	Trichloroethene	CNS	--	3.8E-03	--	3.8E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.4E-02	--	7.4E-02
			(Total)	--	7.9E-05	--	7.9E-05	(Total)		--	8.8E-01	--	8.8E-01

Total Risk Across Surface Soil =	7.5E-06	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.4E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.2E-02
Total Risk for Shallow Soil-to-Indoor Air =	3.0E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.2E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	7.9E-05	Total Hazard Index for Workplace Indoor Air =	8.8E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.2.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Sc	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.3E-05	--	3.1E-06	3.6E-05	Arsenic	Skin	6.0E-01	--	5.0E-02	6.5E-01
			Mercury	--	--	--	--	Mercury	Autoimmune	1.2E-01	--	3.5E-03	1.3E-01
			Thallium	--	--	--	--	Thallium	NOAEL	2.2E-01	--	6.3E-03	2.3E-01
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	9.0E-06	--	3.7E-06	1.3E-05	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.4E-04	--	1.0E-04	3.4E-04	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.9E-05	--	7.7E-06	2.6E-05	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.3E-05	--	5.2E-06	1.8E-05	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.2E-06	--	4.9E-07	1.7E-06	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.1E-05	--	4.5E-06	1.5E-05	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.6E-05	--	1.5E-05	5.0E-05	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	3.7E-04	--	1.4E-04	5.0E-04	(Total)		9.4E-01	--	6.0E-02	1.0E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	3.8E-08	--	3.8E-08	Arsenic	Developmental	--	1.6E-03	--	1.6E-03
			Mercury	--	--	--	--	Mercury	Nervous System	--	1.1E-04	--	1.1E-04
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	4.2E-10	--	4.2E-10	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.1E-08	--	1.1E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	8.7E-10	--	8.7E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	5.8E-10	--	5.8E-10	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	5.6E-11	--	5.6E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.6E-09	--	1.6E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.7E-09	--	1.7E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	5.4E-08	--	5.4E-08	(Total)		--	1.7E-03	--	1.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	2.0E-07	--	2.0E-07	Chloroform	Kidney	--	5.3E-04	--	5.3E-04
			(Total)	--	2.0E-07	--	2.0E-07	(Total)		--	5.3E-04	--	5.3E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.0E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.0E+00
Total Risk for Shallow Soil-to-Indoor Air =	2.0E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.3E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.2.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Sc	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.7E-08	--	7.0E-09	8.4E-08	Arsenic	Skin	1.2E-02	--	1.1E-03	1.3E-02
			Mercury	--	--	--	--	Mercury	Autoimmune	2.5E-03	--	7.5E-05	2.6E-03
			Thallium	--	--	--	--	Thallium	NOAEL	4.5E-03	--	1.4E-04	4.7E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	2.1E-08	--	8.3E-09	3.0E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	5.8E-07	--	2.2E-07	8.0E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.4E-08	--	1.7E-08	6.2E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.0E-08	--	1.2E-08	4.1E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.8E-09	--	1.1E-09	3.9E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.6E-08	--	1.0E-08	3.6E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	8.4E-08	--	3.3E-08	1.2E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	8.6E-07	--	3.1E-07	1.2E-06	(Total)		1.9E-02	--	1.3E-03	2.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	7.6E-11	--	7.6E-11	Arsenic	Developmental	--	5.2E-05	--	5.2E-05
			Mercury	--	--	--	--	Mercury	Nervous System	--	3.6E-06	--	3.6E-06
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	8.5E-13	--	8.5E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.3E-11	--	2.3E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.8E-12	--	1.8E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.2E-12	--	1.2E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.1E-13	--	1.1E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.2E-12	--	3.2E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	3.4E-12	--	3.4E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.1E-10	--	1.1E-10	(Total)		--	5.5E-05	--	5.5E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.0E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-31	**EAPC No.:** 3

RME Exposure Scenario

TABLE 7.3.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	5.1E+00	mg/kg	5.1E+00	mg/kg	M	5.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
	Cadmium	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
	Chromium (total)	5.4E+01	mg/kg	5.4E+01	mg/kg	M	5.3E-05	mg/kg-day	1.5E+00	mg/kg-day	3.5E-05
	Pesticides/PCBs										
	Aroclor 1260	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	(Total)										1.9E-02
Dermal	**Inorganics**										
	Arsenic	5.1E+00	mg/kg	5.1E+00	mg/kg	M	9.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-03
	Cadmium	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.8E-08	mg/kg-day	1.0E-03	mg/kg-day	1.8E-05
	Chromium (total)	5.4E+01	mg/kg	5.4E+01	mg/kg	M	3.5E-06	mg/kg-day	1.5E+00	mg/kg-day	2.3E-06
	Pesticides/PCBs										
	Aroclor 1260	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	(Total)										3.3E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.3.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	5.1E+00	mg/kg	7.7E-09	mg/m^3	R	1.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.3E-04
	Cadmium	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	6.0E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.0E-04
	Chromium (total)	5.4E+01	mg/kg	8.2E-08	mg/m^3	R	1.2E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	Aroclor 1260	2.6E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	2.7E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.6E-04
	Isopropylbenzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	4.2E-04	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	3.8E-03
	Tetrachloroethene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	7.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.2E-04
	Toluene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	2.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.9E-05
	Xylenes	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.1E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.5E-04	mg/kg-day	3.0E-04	mg/kg-day	5.2E-01
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	2.0E-03	mg/kg-day	1.5E+00	mg/kg-day	1.3E-03
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	5.4E-06	mg/kg-day	--	--	--
	(Total)										6.3E-01
Dermal	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.3E-02
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	3.1E-07	mg/kg-day	1.0E-03	mg/kg-day	3.1E-04
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	5.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	(Total)										4.4E-02
										Total Hazard Index Across All Exposure Routes/Pathways	6.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.3.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	1.2E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.4E-03
	Cadmium	8.6E+00	mg/kg	1.3E-08	mg/m^3	R	8.3E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.4E-03
	Chromium (total)	1.5E+02	mg/kg	2.3E-07	mg/m^3	R	1.5E-07	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	Aroclor 1260	4.2E-01	mg/kg	6.3E-10	mg/m^3	R	4.0E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	4.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.7E-03
	Isopropylbenzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.1E-01
	Tetrachloroethene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	1.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-02
	Toluene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	4.3E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.0E-04
	Xylenes	4.7E-05	mg/m^3	4.7E-05	mg/m^3	M	3.0E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.5E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	4.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.6E-05
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	(Total)										1.3E-02
Dermal	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.8E-07	mg/kg-day	3.0E-04	mg/kg-day	9.4E-04
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	6.7E-09	mg/kg-day	1.0E-03	mg/kg-day	6.7E-06
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	mg/kg-day	7.9E-07
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	4.6E-08	mg/kg-day	--	--	--
	(Total)										9.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.3.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.2E+01	mg/kg	2.4E-08	mg/m^3	R	3.8E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	4.5E-05
	Cadmium	8.6E+00	mg/kg	1.7E-08	mg/m^3	R	2.7E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.8E-05
	Chromium (total)	1.5E+02	mg/kg	3.1E-07	mg/m^3	R	4.8E-09	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	Aroclor 1260	4.2E-01	mg/kg	8.5E-10	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	9.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.3.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	5.1E+00	mg/kg	5.1E+00	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.7E-06
	Cadmium	2.7E+00	mg/kg	2.7E+00	mg/kg	M	9.5E-07	mg/kg-day	--	--	--
	Chromium (total)	5.4E+01	mg/kg	5.4E+01	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	2.6E-01	mg/kg	2.6E-01	mg/kg	M	8.9E-08	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	4.5E-07
	(Total)										3.1E-06
Dermal	**Inorganics**										
	Arsenic	5.1E+00	mg/kg	5.1E+00	mg/kg	M	3.5E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.3E-07
	Cadmium	2.7E+00	mg/kg	2.7E+00	mg/kg	M	6.3E-09	mg/kg-day	--	--	--
	Chromium (total)	5.4E+01	mg/kg	5.4E+01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	2.6E-01	mg/kg	2.6E-01	mg/kg	M	8.3E-08	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	4.1E-07
	(Total)										9.4E-07
										Total Risk Across All Exposure Routes/Pathways	4.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	5.1E+00	mg/kg	7.7E-09	mg/m^3	R	4.0E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.8E-09
	Cadmium	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	2.1E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	3.2E-09
	Chromium (total)	5.4E+01	mg/kg	8.2E-08	mg/m^3	R	4.3E-09	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	1.8E-07
	Pesticides/PCBs										
	Aroclor 1260	2.6E-01	mg/kg	3.8E-10	mg/m^3	R	2.0E-11	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	4.0E-11
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	9.6E-08	mg/kg-day	--	--	--
	Isopropylbenzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	2.6E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.4E-08
	Toluene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	8.9E-07	mg/kg-day	--	--	--
	Xylenes	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	5.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.9E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.8E-05
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	2.4E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	6.6E-07	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	3.3E-06
	(Total)										3.2E-05
Dermal	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.7E-06
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	7.6E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	2.9E-07	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	1.5E-06
	(Total)										4.1E-06
										Total Risk Across All Exposure Routes/Pathways	3.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	2.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.2E-08
	Cadmium	8.6E+00	mg/kg	1.3E-08	mg/m^3	R	1.9E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.9E-08
	Chromium (total)	1.5E+02	mg/kg	2.3E-07	mg/m^3	R	3.4E-08	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	1.4E-06
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	6.3E-10	mg/m^3	R	9.4E-11	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	1.9E-10
										Total Risk Across All Exposure Routes/Pathways	1.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	1.1E-06	mg/kg-day	--	--	--
	Isopropylbenzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	3.0E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	2.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-07
	Toluene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	1.0E-05	mg/kg-day	--	--	--
	Xylenes	4.7E-05	mg/m^3	4.7E-05	mg/m^3	M	6.9E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.5E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	6.7E-08
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	5.6E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.5E-09	mg/kg-day	5.0E+00	mg/kg-day^{-1}	7.7E-09
	(Total)										7.5E-08
Dermal	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.0E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	6.0E-09
	Cadmium	8.6E+00	mg/kg	8.6E+00	mg/kg	M	9.5E-11	mg/kg-day	--	--	--
	Chromium (total)	1.5E+02	mg/kg	1.5E+02	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	4.2E-01	mg/kg	M	6.5E-10	mg/kg-day	5.0E+00	mg/kg-day^{-1}	3.3E-09
	(Total)										9.3E-09
										Total Risk Across All Exposure Routes/Pathways	8.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.2E+01	mg/kg	2.4E-08	mg/m^3	R	5.5E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	6.6E-11
	Cadmium	8.6E+00	mg/kg	1.7E-08	mg/m^3	R	3.9E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.8E-11
	Chromium (total)	1.5E+02	mg/kg	3.1E-07	mg/m^3	R	6.9E-11	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	2.9E-09
	Pesticides/PCBs										
	Aroclor 1260	4.2E-01	mg/kg	8.5E-10	mg/m^3	R	1.9E-13	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	3.8E-13
										Total Risk Across All Exposure Routes/Pathways	3.0E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.3.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-31
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	2.7E-06	--	5.3E-07	3.2E-06	Arsenic	Skin	1.7E-02	--	3.3E-03	2.0E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	2.7E-03	--	1.8E-05	2.7E-03
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	3.5E-05	--	2.3E-06	3.8E-05
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	4.5E-07	--	4.1E-07	8.6E-07	Aroclor 1260	--	--	--	--	--
			(Total)	3.1E-06	--	9.4E-07	4.1E-06	(Total)		1.9E-02	--	3.3E-03	2.3E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	4.8E-09	--	4.8E-09	Arsenic	Developmental	--	1.3E-04	--	1.3E-04
			Cadmium	--	3.2E-09	--	3.2E-09	Cadmium	Kidney	--	1.0E-04	--	1.0E-04
			Chromium (total)	--	1.8E-07	--	1.8E-07	Chromium (total)	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	--	4.0E-11	--	4.0E-11	Aroclor 1260	--	--	--	--	--
			(Total)	--	1.9E-07	--	1.9E-07	(Total)		--	2.4E-04	--	2.4E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.6E-04	--	1.6E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	3.8E-03	--	3.8E-03
			Tetrachloroethene	--	5.4E-08	--	5.4E-08	Tetrachloroethene	Liver/Kidney	--	7.2E-04	--	7.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	2.9E-05	--	2.9E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	8.1E-06	--	8.1E-06
			(Total)	--	5.4E-08	--	5.4E-08	(Total)		--	4.7E-03	--	4.7E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.3E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.3E-02
Total Risk for Shallow Soil-to-Indoor Air =	5.4E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.7E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.3.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	2.8E-05	--	2.7E-06	3.1E-05	Arsenic	Skin	5.2E-01	--	4.3E-02	5.6E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	1.1E-01	--	3.1E-04	1.1E-01
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	1.3E-03	--	3.7E-05	1.3E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	3.3E-06	--	1.5E-06	4.7E-06	Aroclor 1260	--	--	--	--	--
			(Total)	3.2E-05	--	4.1E-06	3.6E-05	(Total)		6.3E-01	--	4.4E-02	6.7E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	3.2E-08	--	3.2E-08	Arsenic	Developmental	--	1.4E-03	--	1.4E-03
			Cadmium	--	2.9E-08	--	2.9E-08	Cadmium	Kidney	--	1.4E-03	--	1.4E-03
			Chromium (total)	--	1.4E-06	--	1.4E-06	Chromium (total)	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	--	1.9E-10	--	1.9E-10	Aroclor 1260	--	--	--	--	--
			(Total)	--	1.5E-06	--	1.5E-06	(Total)		--	2.8E-03	--	2.8E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.7E-03	--	2.7E-03
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	1.1E-01	--	1.1E-01
			Tetrachloroethene	--	5.3E-07	--	5.3E-07	Tetrachloroethene	Liver/Kidney	--	1.1E-02	--	1.1E-02
			Toluene	--	--	--	--	Toluene	CNS	--	5.0E-04	--	5.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.5E-04	--	1.5E-04
			(Total)	--	5.3E-07	--	5.3E-07	(Total)		--	1.3E-01	--	1.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.7E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.7E-01
Total Risk for Shallow Soil-to-Indoor Air =	5.3E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.3.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	6.7E-08	--	6.0E-09	7.3E-08	Arsenic	Skin	1.0E-02	--	9.4E-04	1.1E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	2.2E-03	--	6.7E-06	2.2E-03
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	2.6E-05	--	7.9E-07	2.7E-05
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	7.7E-09	--	3.3E-09	1.1E-08	Aroclor 1260	--	--	--	--	--
			(Total)	7.5E-08	--	9.3E-09	8.4E-08	(Total)		1.3E-02	--	9.5E-04	1.4E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	6.6E-11	--	6.6E-11	Arsenic	Developmental	--	4.5E-05	--	4.5E-05
			Cadmium	--	5.8E-11	--	5.8E-11	Cadmium	Kidney	--	4.8E-05	--	4.8E-05
			Chromium (total)	--	2.9E-09	--	2.9E-09	Chromium (total)	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	--	3.8E-13	--	3.8E-13	Aroclor 1260	--	--	--	--	--
			(Total)	--	3.0E-09	--	3.0E-09	(Total)		--	9.2E-05	--	9.2E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.4E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-7	**EAPC No.:** 4

RME Exposure Scenario

TABLE 7.4.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	7.8E-05	mg/kg-day	1.5E+00	mg/kg-day	5.2E-05
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	3.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	(Total)										1.3E-03
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	5.2E-06	mg/kg-day	1.5E+00	mg/kg-day	3.4E-06
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	3.0E-03	mg/kg-day	0.0E+00
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.1E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.1E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	(Total)										3.4E-06
										Total Hazard Index Across All Exposure Routes/Pathways	1.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Chromium (total)	8.0E+01	mg/kg	1.2E-07	mg/m^3	R	1.8E-08	mg/kg-day	--	--	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	5.7E-09	mg/m^3	R	8.4E-10	mg/kg-day	2.3E-06	mg/kg-day	8.0E-06	mg/m3	3.7E-04
	SVOCs												
	Benzo(a)anthracene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.5E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.5E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	5.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	7.7E-11	mg/m^3	R	1.1E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	2.6E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.1E-02
	1,1-Dichloroethene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.0E-04	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	1.0E-02
	Benzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	6.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-01
	Cyclohexane	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	1.5E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	8.7E-04
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.9E-03
	Methyl Ethyl Ketone	2.8E-01	mg/m^3	2.8E-01	mg/m^3	M	4.1E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	2.9E-02
	Methylene Chloride	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.8E-02
	Styrene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.7E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-02
	Tetrachloroethene	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	7.3E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.3E-01
	Toluene	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	1.1E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-01
	Trichloroethene	4.8E-03	mg/m^3	4.8E-03	mg/m^3	M	7.1E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.1E-03
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	5.5E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	1.0E-03	mg/kg-day	1.5E+00	mg/kg-day	6.8E-04
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	4.9E-05	mg/kg-day	3.0E-03	mg/kg-day	1.6E-02
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	3.3E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	6.5E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.5E-06	mg/kg-day	--	--	--
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	2.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.9E-05
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	3.0E-03	mg/kg-day	0.0E+00
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.6E-07	mg/kg-day	--	--	--
	(Total)										1.9E-05
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Chromium (total)	8.0E+01	mg/kg	1.2E-07	mg/m^3	R	7.7E-08	mg/kg-day	--	--	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	5.7E-09	mg/m^3	R	3.6E-09	mg/kg-day	2.3E-06	mg/kg-day	8.0E-06	mg/m3	1.6E-03
	SVOCs												
	Benzo(a)anthracene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	7.7E-11	mg/m^3	R	4.9E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	9.8E-07	mg/kg-day	3.0E-03	mg/kg-day	3.3E-04
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	6.7E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.1E-08	mg/kg-day	--	--	--
	(Total)										3.4E-04
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	6.2E-07	mg/kg-day	1.5E+00	mg/kg-day	4.1E-07
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	3.0E-03	mg/kg-day	0.0E+00
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	5.1E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	(Total)										4.1E-07
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.4.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Chromium (total)	8.0E+01	mg/kg	1.6E-07	mg/m^3	R	2.5E-09	mg/kg-day	--	--	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	7.7E-09	mg/m^3	R	1.2E-10	mg/kg-day	2.3E-06	mg/kg-day	8.0E-06	mg/m3	5.3E-05
	SVOCs												
	Benzo(a)anthracene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.6E-01	mg/kg	5.3E-10	mg/m^3	R	8.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	1.0E-10	mg/m^3	R	1.6E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	2.4E-10	mg/m^3	R	3.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	5.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.4.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	8.7E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.0E-07
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	8.7E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.0E-06
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	9.1E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.4E-08
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.8E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.3E-08
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.2E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.0E-08
	(Total)										1.5E-06
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	1.8E-06	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	7.5E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	9.0E-08
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	7.5E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.0E-07
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	7.8E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	9.4E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.2E-08
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.5E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.3E-08
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.6E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.3E-08
	(Total)										1.3E-06
										Total Risk Across All Exposure Routes/Pathways	2.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	1.2E-07	mg/m^3	R	6.3E-09	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	2.6E-07
	Chromium (VI)	3.8E+00	mg/kg	5.7E-09	mg/m^3	R	3.0E-10	mg/kg-day	5.1E+02	$mg/kg\text{-}day^{-1}$	1.5E-07
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.0E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.7E-12
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.0E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	7.7E-11
	Benzo(b)fluoranthene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	2.0E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.0E-12
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-12
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	7.7E-11	mg/m^3	R	4.0E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-11
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	9.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-12
										Total Risk Across All Exposure Routes/Pathways	4.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	5.2E-03	mg/kg-day	--	--	--
	1,1-Dichloroethene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	7.2E-05	mg/kg-day	--	--	--
	Benzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-04
	Cyclohexane	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	5.3E-04	mg/kg-day	--	--	--
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.8E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	2.8E-01	mg/m^3	2.8E-01	mg/m^3	M	1.5E-02	mg/kg-day	--	--	--
	Methylene Chloride	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.3E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.6E-06
	Styrene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	9.8E-04	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	2.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.5E-05
	Toluene	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	3.9E-03	mg/kg-day	--	--	--
	Trichloroethene	4.8E-03	mg/m^3	4.8E-03	mg/m^3	M	2.5E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.8E-06
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	1.3E-04	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	5.9E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.7E-07
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.7E-06
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.9E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.8E-07
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	8.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.3E-07
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.9E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.3E-07
	(Total)										6.6E-06
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.9E-07
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.9E-06
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.7E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.0E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-07
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	3.3E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-07
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.7E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	9.3E-08
	(Total)										2.7E-06
										Total Risk Across All Exposure Routes/Pathways	9.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	1.2E-07	mg/m^3	R	1.8E-08	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	7.5E-07
	Chromium (VI)	3.8E+00	mg/kg	5.7E-09	mg/m^3	R	8.5E-10	mg/kg-day	5.1E+02	$mg/kg\text{-}day^{-1}$	4.3E-07
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.2E-10
	Benzo(b)fluoranthene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	5.8E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-11
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	7.7E-11	mg/m^3	R	1.1E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.7E-11
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	2.7E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-11
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-09
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.1E-08
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	9.6E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.2E-09
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.9E-10
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.9E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.7E-10
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.3E-10
	(Total)										1.6E-08
Dermal	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	8.0E+01	mg/kg	M	8.9E-09	mg/kg-day	--	--	--
	Chromium (VI)	3.8E+00	mg/kg	3.8E+00	mg/kg	M	0.0E+00	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.3E-10
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.3E-09
	Benzo(b)fluoranthene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.5E-10
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-10
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	7.3E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.0E-10
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-10
	(Total)										6.1E-09
										Total Risk Across All Exposure Routes/Pathways	2.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Chromium (total)	8.0E+01	mg/kg	1.6E-07	mg/m^3	R	3.6E-11	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Chromium (VI)	3.8E+00	mg/kg	7.7E-09	mg/m^3	R	1.7E-12	mg/kg-day	5.1E+02	$mg/kg\text{-}day^{-1}$	8.8E-10
	SVOCs										
	Benzo(a)anthracene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.4E-14
	Benzo(a)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.4E-13
	Benzo(b)fluoranthene	2.6E-01	mg/kg	5.3E-10	mg/m^3	R	1.2E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.6E-14
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.5E-14
	Dibenzo(a,h)anthracene	5.1E-02	mg/kg	1.0E-10	mg/m^3	R	2.3E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	9.5E-14
	Indeno(1,2,3-cd)pyrene	1.2E-01	mg/kg	2.4E-10	mg/m^3	R	5.4E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.1E-14
										Total Risk Across All Exposure Routes/Pathways	2.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.4.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	5.2E-05	--	3.4E-06	5.6E-05
			Chromium (VI)	--	--	--	--	Chromium (VI)	NOAEL	1.2E-03	--	0.0E+00	1.2E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.0E-07	--	9.0E-08	1.9E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.0E-06	--	9.0E-07	1.9E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.1E-07	--	9.4E-08	2.0E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.4E-08	--	7.2E-08	1.6E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	7.3E-08	--	6.3E-08	1.4E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.0E-08	--	4.3E-08	9.3E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.5E-06	--	1.3E-06	2.7E-06	(Total)		1.3E-03	--	3.4E-06	1.3E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Chromium (total)	--	2.6E-07	--	2.6E-07	Chromium (total)	--	--	--	--	--
			Chromium (VI)	--	1.5E-07	--	1.5E-07	Chromium (VI)	Nasal Effects	--	3.7E-04	--	3.7E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	7.7E-12	--	7.7E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	7.7E-11	--	7.7E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	8.0E-12	--	8.0E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	6.1E-12	--	6.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.6E-11	--	1.6E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	3.7E-12	--	3.7E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	4.2E-07	--	4.2E-07	(Total)		--	3.7E-04	--	3.7E-04

TABLE 9.4.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.1E-02	--	5.1E-02
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	1.0E-02	--	1.0E-02
			Benzene	--	2.4E-04	--	2.4E-04	Benzene	Blood	--	3.9E-01	--	3.9E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	8.7E-04	--	8.7E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.9E-03	--	2.9E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	2.9E-02	--	2.9E-02
			Methylene Chloride	--	2.6E-06	--	2.6E-06	Methylene Chloride	Liver	--	1.8E-02	--	1.8E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-02	--	1.1E-02
			Tetrachloroethene	--	5.5E-05	--	5.5E-05	Tetrachloroethene	Liver/Kidney	--	7.3E-01	--	7.3E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-01	--	1.3E-01
			Trichloroethene	--	1.8E-06	--	1.8E-06	Trichloroethene	CNS	--	4.1E-03	--	4.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.7E-02	--	2.7E-02
			(Total)	--	2.9E-04	--	2.9E-04	(Total)		--	1.4E+00	--	1.4E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.1E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E-03
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	2.9E-04	Total Hazard Index for Workplace Indoor Air =	1.4E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.4.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	6.8E-04	--	1.9E-05	7.0E-04
			Chromium (VI)	--	--	--	--	Chromium (VI)	NOAEL	1.6E-02	--	0.0E+00	1.6E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.7E-07	--	1.9E-07	6.6E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.7E-06	--	1.9E-06	6.6E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.9E-07	--	2.0E-07	6.9E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.8E-07	--	1.5E-07	5.3E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.3E-07	--	1.3E-07	4.6E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.3E-07	--	9.3E-08	3.2E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	6.6E-06	--	2.7E-06	9.3E-06	(Total)		1.7E-02	--	1.9E-05	1.7E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Chromium (total)	--	7.5E-07	--	7.5E-07	Chromium (total)	--	--	--	--	--
			Chromium (VI)	--	4.3E-07	--	4.3E-07	Chromium (VI)	Nasal Effects	--	1.6E-03	--	1.6E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.2E-11	--	2.2E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.2E-10	--	2.2E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.3E-11	--	2.3E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.7E-11	--	1.7E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.7E-11	--	4.7E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.0E-11	--	1.0E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.2E-06	--	1.2E-06	(Total)		--	1.6E-03	--	1.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.0E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.8E-02
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.4.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	1.4E-05	--	4.1E-07	1.4E-05
			Chromium (VI)	--	--	--	--	Chromium (VI)	NOAEL	3.3E-04	--	0.0E+00	3.3E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.1E-09	--	4.3E-10	1.5E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.1E-08	--	4.3E-09	1.5E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.2E-09	--	4.5E-10	1.6E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.9E-10	--	3.5E-10	1.2E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	7.7E-10	--	3.0E-10	1.1E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.3E-10	--	2.1E-10	7.4E-10	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.6E-08	--	6.1E-09	2.2E-08	(Total)		3.4E-04	--	4.1E-07	3.4E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Chromium (total)	--	1.5E-09	--	1.5E-09	Chromium (total)	--	--	--	--	--
			Chromium (VI)	--	8.8E-10	--	8.8E-10	Chromium (VI)	Nasal Effects	--	5.3E-05	--	5.3E-05
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	4.4E-14	--	4.4E-14	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.4E-13	--	4.4E-13	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	4.6E-14	--	4.6E-14	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.5E-14	--	3.5E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	9.5E-14	--	9.5E-14	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	2.1E-14	--	2.1E-14	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	2.4E-09	--	2.4E-09	(Total)		--	5.3E-05	--	5.3E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.4E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.9E-04
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-17	**EAPC No.:** 5

RME Exposure Scenario

TABLE 7.5.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	6.5E-05	mg/kg-day	7.0E-03	mg/kg-day	9.3E-03
	VOCs										
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	3.0E-06	mg/kg-day	5.0E-02	mg/kg-day	6.0E-05
	Benzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	7.1E-07	mg/kg-day	4.0E-03	mg/kg-day	1.8E-04
	Cyclohexane	5.6E+00	mg/kg	5.6E+00	mg/kg	M	5.5E-06	mg/kg-day	1.7E+00	mg/kg-day	3.2E-06
	(Total)										9.5E-03
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	4.3E-06	mg/kg-day	7.0E-03	mg/kg-day	6.1E-04
	VOCs										
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	2.0E-06	mg/kg-day	5.0E-02	mg/kg-day	4.0E-05
	Benzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	4.7E-07	mg/kg-day	4.0E-03	mg/kg-day	1.2E-04
	Cyclohexane	5.6E+00	mg/kg	5.6E+00	mg/kg	M	3.6E-06	mg/kg-day	1.7E+00	mg/kg-day	2.1E-06
	(Total)										7.7E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Vanadium	6.6E+01	mg/kg	1.0E-07	mg/m^3	R	1.5E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	8.1E-05	mg/m^3	R	1.2E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.9E-03
	Benzene	7.3E-01	mg/kg	1.3E-04	mg/m^3	R	2.0E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-03
	Cyclohexane	5.6E+00	mg/kg	3.3E-03	mg/m^3	R	4.8E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	8.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.3E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.4E-01
	2-Hexanone	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	4.4E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	5.2E-03
	4-Ethyl Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.2E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.6E-03
	Acetone	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.8E-03
	Benzene	9.6E-03	mg/m^3	9.6E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.2E-02
	Carbon Disulfide	6.6E-02	mg/m^3	6.6E-02	mg/m^3	M	9.7E-03	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	4.2E-02
	Cyclohexane	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	5.9E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.4E-02
	Ethylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	4.0E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.0E-04
	n-Heptane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.3E-02	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.2E-02
	n-Hexane	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	9.4E-03	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	4.7E-03
	Methyl isobutyl ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.7E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.1E-03
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.5E-02
	Toluene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	7.9E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.2E-03
	Trichloroethene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	9.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.3E-04
	Xylenes	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	4.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	1.1E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.2E-02
	Benzene	2.2E-01	mg/m^3	2.2E-01	mg/m^3	M	3.2E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E+00
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.7E-03
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	5.7E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.2E-03
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.3E-03
	Toluene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	2.5E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.9E-01
	Xylenes	3.9E-02	mg/m^3	3.9E-02	mg/m^3	M	5.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	6.8E-03
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-01
	Cyclohexane	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	8.6E-03
	Ethylbenzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.0E-03
	Methyl Ethyl Ketone	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.8E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.9E-03
	Methylene Chloride	5.2E-03	mg/m^3	5.2E-03	mg/m^3	M	7.6E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	6.7E-03
	Styrene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	1.3E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	5.0E-03
	Tetrachloroethene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	3.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.0E-01
	Toluene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	7.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.1E-02
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.9E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.1E-03
	Xylenes	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	6.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	8.5E-04	mg/kg-day	7.0E-03	mg/kg-day	1.2E-01
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	1.0E-04	mg/kg-day	5.0E-02	mg/kg-day	2.1E-03
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	7.5E-05	mg/kg-day	4.0E-03	mg/kg-day	1.9E-02
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	1.4E-03	mg/kg-day	1.7E+00	mg/kg-day	8.3E-04
	(Total)										1.4E-01
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	2.4E-05	mg/kg-day	7.0E-03	mg/kg-day	3.4E-03
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	2.9E-05	mg/kg-day	5.0E-02	mg/kg-day	5.8E-04
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	2.1E-05	mg/kg-day	4.0E-03	mg/kg-day	5.3E-03
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	3.9E-04	mg/kg-day	1.7E+00	mg/kg-day	2.3E-04
	(Total)										9.5E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Vanadium	6.6E+01	mg/kg	1.0E-07	mg/m^3	R	6.4E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	1.9E-04	mg/m^3	R	1.2E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	7.2E-02
	Benzene	5.9E+00	mg/kg	1.0E-03	mg/m^3	R	6.4E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.7E-02
	Cyclohexane	1.1E+02	mg/kg	5.8E-02	mg/m^3	R	3.7E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.2E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	6.3E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.7E+00
	2-Hexanone	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	4.5E-02	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	5.3E-02
	4-Ethyl Toluene	7.3E-03	mg/m^3	7.3E-03	mg/m^3	M	4.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-02
	Acetone	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.5E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.8E-02
	Benzene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	1.1E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.3E+00
	Carbon Disulfide	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	3.2E-01	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	1.4E+00
	Cyclohexane	1.3E+01	mg/m^3	1.3E+01	mg/m^3	M	8.2E+00	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.8E+00
	Ethylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	7.8E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-01
	n-Heptane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	2.4E-01	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.2E-01
	n-Hexane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.0E-01	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	5.1E-02
	Methyl isobutyl ketone	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	2.7E-02	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.2E-02
	Tetrachloroethene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	3.3E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E+00
	Toluene	2.4E-01	mg/m^3	2.4E-01	mg/m^3	M	1.6E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E+00
	Trichloroethene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	2.0E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-01
	Xylenes	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	9.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.7E-01
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.4E-01
	Benzene	5.1E-01	mg/m^3	5.1E-01	mg/m^3	M	3.2E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E+01
	Ethylbenzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	2.7E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.8E-02
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	5.8E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-02
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	3.5E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.3E-02
	Toluene	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	2.6E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.0E+00
	Xylenes	9.1E-02	mg/m^3	9.1E-02	mg/m^3	M	5.8E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-01
												Total Hazard Index Across All Exposure Routes/Pathways	2.3E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.7E-05	mg/kg-day	7.0E-03	mg/kg-day	2.4E-03
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	2.1E-06	mg/kg-day	5.0E-02	mg/kg-day	4.2E-05
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	1.5E-06	mg/kg-day	4.0E-03	mg/kg-day	3.8E-04
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	2.8E-05	mg/kg-day	1.7E+00	mg/kg-day	1.7E-05
	(Total)										2.9E-03
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	5.1E-07	mg/kg-day	7.0E-03	mg/kg-day	7.3E-05
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	6.2E-07	mg/kg-day	5.0E-02	mg/kg-day	1.2E-05
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	4.6E-07	mg/kg-day	4.0E-03	mg/kg-day	1.1E-04
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	8.5E-06	mg/kg-day	1.7E+00	mg/kg-day	5.0E-06
	(Total)										2.1E-04
										Total Hazard Index Across All Exposure Routes/Pathways	3.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.5.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Vanadium	6.6E+01	mg/kg	1.3E-07	mg/m^3	R	2.1E-09	mg/kg-day	--	--	--	--	--
	VOCs												
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	5.1E-04	mg/m^3	R	8.0E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.7E-03
	Benzene	5.9E+00	mg/kg	2.6E-03	mg/m^3	R	4.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-03
	Cyclohexane	1.1E+02	mg/kg	1.5E-01	mg/m^3	R	2.4E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	8.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.5.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	2.3E-05	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	1.1E-06	mg/kg-day	--	--	--
	Benzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	2.5E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-08
	Cyclohexane	5.6E+00	mg/kg	5.6E+00	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	(Total)										2.5E-08
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.5E-06	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	7.1E-07	mg/kg-day	--	--	--
	Benzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	1.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Cyclohexane	5.6E+00	mg/kg	5.6E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	(Total)										1.7E-08
										Total Risk Across All Exposure Routes/Pathways	4.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	1.0E-07	mg/m^3	R	5.2E-09	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.1E+00	mg/kg	8.1E-05	mg/m^3	R	4.2E-06	mg/kg-day	--	--	--
	Benzene	7.3E-01	mg/kg	1.3E-04	mg/m^3	R	7.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.1E-07
	Cyclohexane	5.6E+00	mg/kg	3.3E-03	mg/m^3	R	1.7E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	8.4E-05	mg/kg-day	--	--	--
	2-Hexanone	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Acetone	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	8.9E-04	mg/kg-day	--	--	--
	Benzene	9.6E-03	mg/m^3	9.6E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.0E-05
	Carbon Disulfide	6.6E-02	mg/m^3	6.6E-02	mg/m^3	M	3.5E-03	mg/kg-day	--	--	--
	Cyclohexane	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	2.1E-02	mg/kg-day	--	--	--
	Ethylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
	n-Heptane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	8.3E-03	mg/kg-day	--	--	--
	n-Hexane	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	3.4E-03	mg/kg-day	--	--	--
	Methyl isobutyl ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	9.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	5.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-06
	Toluene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	2.8E-04	mg/kg-day	--	--	--
	Trichloroethene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	3.3E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.3E-07
	Xylenes	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.5E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	3.8E-05	mg/kg-day	--	--	--
	Benzene	2.2E-01	mg/m^3	2.2E-01	mg/m^3	M	1.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-03
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	9.6E-04	mg/kg-day	--	--	--
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	2.0E-06	mg/kg-day	--	--	--
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Toluene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	8.9E-03	mg/kg-day	--	--	--
	Xylenes	3.9E-02	mg/m^3	3.9E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	7.0E-04	mg/kg-day	--	--	--
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	9.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.0E-05
	Cyclohexane	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	5.3E-03	mg/kg-day	--	--	--
	Ethylbenzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.2E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	9.9E-04	mg/kg-day	--	--	--
	Methylene Chloride	5.2E-03	mg/m^3	5.2E-03	mg/m^3	M	2.7E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	9.6E-07
	Styrene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	4.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-05
	Toluene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	2.8E-03	mg/kg-day	--	--	--
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	6.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.7E-07
	Xylenes	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.1E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.0E-04	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	9.2E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.2E-07
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	1.7E-04	mg/kg-day	--	--	--
	(Total)										9.2E-07
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	3.3E-06	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	2.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-07
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	5.4E-05	mg/kg-day	--	--	--
	(Total)										2.9E-07
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	1.0E-07	mg/m^3	R	1.5E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	1.9E-04	mg/m^3	R	2.9E-05	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	1.0E-03	mg/m^3	R	1.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-05
	Cyclohexane	1.1E+02	mg/kg	5.8E-02	mg/m^3	R	8.6E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	1.5E-03	mg/kg-day	--	--	--
	2-Hexanone	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	1.1E-02	mg/kg-day	--	--	--
	4-Ethyl Toluene	7.3E-03	mg/m^3	7.3E-03	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Acetone	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	--	--	--
	Benzene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	2.5E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-03
	Carbon Disulfide	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	7.5E-02	mg/kg-day	--	--	--
	Cyclohexane	1.3E+01	mg/m^3	1.3E+01	mg/m^3	M	1.9E+00	mg/kg-day	--	--	--
	Ethylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	1.8E-02	mg/kg-day	--	--	--
	n-Heptane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	5.5E-02	mg/kg-day	--	--	--
	n-Hexane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.4E-02	mg/kg-day	--	--	--
	Methyl isobutyl ketone	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	6.3E-03	mg/kg-day	--	--	--
	Tetrachloroethene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	7.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-04
	Toluene	2.4E-01	mg/m^3	2.4E-01	mg/m^3	M	3.6E-02	mg/kg-day	--	--	--
	Trichloroethene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	4.7E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.3E-05
	Xylenes	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	2.2E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Benzene	5.1E-01	mg/m^3	5.1E-01	mg/m^3	M	7.5E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.5E-03
	Ethylbenzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	6.4E-03	mg/kg-day	--	--	--
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	8.0E-04	mg/kg-day	--	--	--
	Toluene	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	5.9E-02	mg/kg-day	--	--	--
	Xylenes	9.1E-02	mg/m^3	9.1E-02	mg/m^3	M	1.4E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	3.0E-08	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	2.2E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	2.2E-09
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	4.1E-07	mg/kg-day	--	--	--
	(Total)										2.2E-09
Dermal	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	6.6E+01	mg/kg	M	7.3E-09	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	8.1E+00	mg/kg	M	8.9E-09	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	5.9E+00	mg/kg	M	6.5E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	6.5E-10
	Cyclohexane	1.1E+02	mg/kg	1.1E+02	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	(Total)										6.5E-10
										Total Risk Across All Exposure Routes/Pathways	2.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Vanadium	6.6E+01	mg/kg	1.3E-07	mg/m^3	R	3.0E-11	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	8.1E+00	mg/kg	5.1E-04	mg/m^3	R	1.1E-07	mg/kg-day	--	--	--
	Benzene	5.9E+00	mg/kg	2.6E-03	mg/m^3	R	5.9E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.9E-08
	Cyclohexane	1.1E+02	mg/kg	1.5E-01	mg/m^3	R	3.4E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.5.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	Liver	9.3E-03	--	6.1E-04	9.9E-03
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	6.0E-05	--	4.0E-05	1.0E-04
			Benzene	2.5E-08	--	1.7E-08	4.2E-08	Benzene	Blood	1.8E-04	--	1.2E-04	3.0E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	3.2E-06	--	2.1E-06	5.4E-06
			(Total)	2.5E-08	--	1.7E-08	4.2E-08	(Total)		9.5E-03	--	7.7E-04	1.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.9E-03	--	6.9E-03
			Benzene	--	7.1E-07	--	7.1E-07	Benzene	Blood	--	1.2E-03	--	1.2E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.8E-04	--	2.8E-04
			(Total)	--	7.1E-07	--	7.1E-07	(Total)		--	8.4E-03	--	8.4E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.4E-01	--	1.4E-01
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	5.2E-03	--	5.2E-03
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	1.6E-03	--	1.6E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	2.8E-03	--	2.8E-03
			Benzene	--	5.0E-05	--	5.0E-05	Benzene	Blood	--	8.2E-02	--	8.2E-02
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	4.2E-02	--	4.2E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.4E-02	--	3.4E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.0E-04	--	7.0E-04
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	1.2E-02	--	1.2E-02
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	4.7E-03	--	4.7E-03
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.1E-03	--	3.1E-03
			Tetrachloroethene	--	1.1E-06	--	1.1E-06	Tetrachloroethene	Liver/Kidney	--	1.5E-02	--	1.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	9.2E-03	--	9.2E-03
			Trichloroethene	--	2.3E-07	--	2.3E-07	Trichloroethene	CNS	--	5.3E-04	--	5.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.1E-02	--	2.1E-02
			(Total)	--	5.2E-05	--	5.2E-05	(Total)		--	3.7E-01	--	3.7E-01

TABLE 9.5.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.2E-02	--	6.2E-02
		Using the J&E Model	Benzene	--	1.1E-03	--	1.1E-03	Benzene	Blood	--	1.8E+00	--	1.8E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.7E-03	--	4.7E-03
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.2E-03	--	2.2E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.3E-03	--	1.3E-03
			Toluene	--	--	--	--	Toluene	CNS	--	2.9E-01	--	2.9E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-02	--	2.9E-02
			(Total)	--	1.1E-03	--	1.1E-03	(Total)		--	2.2E+00	--	2.2E+00
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	6.8E-03	--	6.8E-03
			Benzene	--	9.0E-05	--	9.0E-05	Benzene	Blood	--	1.5E-01	--	1.5E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	8.6E-03	--	8.6E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.0E-03	--	3.0E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.9E-03	--	1.9E-03
			Methylene Chloride	--	9.6E-07	--	9.6E-07	Methylene Chloride	Liver	--	6.7E-03	--	6.7E-03
			Styrene	--	--	--	--	Styrene	CNS	--	5.0E-03	--	5.0E-03
			Tetrachloroethene	--	2.3E-05	--	2.3E-05	Tetrachloroethene	Liver/Kidney	--	3.0E-01	--	3.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	9.1E-02	--	9.1E-02
			Trichloroethene	--	4.7E-07	--	4.7E-07	Trichloroethene	CNS	--	1.1E-03	--	1.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-02	--	2.9E-02
			(Total)	--	1.1E-04	--	1.1E-04	(Total)		--	6.0E-01	--	6.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.5E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.9E-02
Total Risk for Shallow Soil-to-Indoor Air =	5.2E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.7E-01
Total Risk for Deep Soil-to-Indoor Air =	1.1E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	2.2E+00
Total Risk for Workplace Indoor Air =	1.1E-04	Total Hazard Index for Workplace Indoor Air =	6.0E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.5.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	Liver	1.2E-01	--	3.4E-03	1.2E-01
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	2.1E-03	--	5.8E-04	2.6E-03
			Benzene	9.2E-07	--	2.9E-07	1.2E-06	Benzene	Blood	1.9E-02	--	5.3E-03	2.4E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	8.3E-04	--	2.3E-04	1.1E-03
			(Total)	9.2E-07	--	2.9E-07	1.2E-06	(Total)		1.4E-01	--	9.5E-03	1.5E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	7.2E-02	--	7.2E-02
			Benzene	--	1.5E-05	--	1.5E-05	Benzene	Blood	--	3.7E-02	--	3.7E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.2E-02	--	2.2E-02
			(Total)	--	1.5E-05	--	1.5E-05	(Total)		--	1.3E-01	--	1.3E-01
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.7E+00	--	3.7E+00
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	5.3E-02	--	5.3E-02
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	2.3E-02	--	2.3E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	2.8E-02	--	2.8E-02
			Benzene	--	2.5E-03	--	2.5E-03	Benzene	Blood	--	6.3E+00	--	6.3E+00
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	1.4E+00	--	1.4E+00
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.8E+00	--	4.8E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-01	--	1.4E-01
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	1.2E-01	--	1.2E-01
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	5.1E-02	--	5.1E-02
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.2E-02	--	3.2E-02
			Tetrachloroethene	--	1.6E-04	--	1.6E-04	Tetrachloroethene	Liver/Kidney	--	3.3E+00	--	3.3E+00
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E+00	--	1.8E+00
			Trichloroethene	--	3.3E-05	--	3.3E-05	Trichloroethene	CNS	--	1.2E-01	--	1.2E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.7E-01	--	4.7E-01
			(Total)	--	2.7E-03	--	2.7E-03	(Total)		--	2.2E+01	--	2.2E+01

TABLE 9.5.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.4E-01	--	6.4E-01
		Using the J&E Model	Benzene	--	7.5E-03	--	7.5E-03	Benzene	Blood	--	1.9E+01	--	1.9E+01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.8E-02	--	4.8E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-02	--	2.3E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.3E-02	--	1.3E-02
			Toluene	--	--	--	--	Toluene	CNS	--	3.0E+00	--	3.0E+00
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-01	--	2.9E-01
			(Total)	--	7.5E-03	--	7.5E-03	(Total)		--	2.3E+01	--	2.3E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.8E-01
Total Risk for Shallow Soil-to-Indoor Air =	2.7E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.2E+01
Total Risk for Deep Soil-to-Indoor Air =	7.5E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	2.3E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.5.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	Liver	2.4E-03	--	7.3E-05	2.5E-03
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	4.2E-05	--	1.2E-05	5.4E-05
			Benzene	2.2E-09	--	6.5E-10	2.8E-09	Benzene	Blood	3.8E-04	--	1.1E-04	5.0E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	1.7E-05	--	5.0E-06	2.2E-05
			(Total)	2.2E-09	--	6.5E-10	2.8E-09	(Total)		2.9E-03	--	2.1E-04	3.1E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.7E-03	--	4.7E-03
			Benzene	--	5.9E-08	--	5.9E-08	Benzene	Blood	--	2.4E-03	--	2.4E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.4E-03	--	1.4E-03
			(Total)	--	5.9E-08	--	5.9E-08	(Total)		--	8.5E-03	--	8.5E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.2E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.2E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-22	**EAPC No.:** 6

RME Exposure Scenario

TABLE 7.6.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.3E+00	mg/kg	3.3E+00	mg/kg	M	3.2E-06	mg/kg-day	4.0E-03	mg/kg-day	8.0E-04
	(Total)										8.0E-04
Dermal	**VOCs**										
	Benzene	3.3E+00	mg/kg	3.3E+00	mg/kg	M	2.1E-06	mg/kg-day	4.0E-03	mg/kg-day	5.3E-04
	(Total)										5.3E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.6.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.3E+00	mg/kg	6.1E-04	mg/m^3	R	8.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.6.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.5E-01
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	9.9E-03	mg/m^3	9.9E-03	mg/m^3	M	1.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.5E-02
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.9E-03
	Toluene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.7E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.2E-02
	Xylenes	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	9.3E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.8E-04	mg/kg-day	4.0E-03	mg/kg-day	9.4E-02
	(Total)										9.4E-02
Dermal	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-04	mg/kg-day	4.0E-03	mg/kg-day	2.6E-02
	(Total)										2.6E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+01	mg/kg	5.0E-03	mg/m^3	R	3.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.5E-01	mg/m^3	8.5E-01	mg/m^3	M	5.4E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.2E+01
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.6E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.2E-01
	Ethylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.6E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.5E-02
	Toluene	6.5E-02	mg/m^3	6.5E-02	mg/m^3	M	4.1E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.8E-01
	Xylenes	2.2E-01	mg/m^3	2.2E-01	mg/m^3	M	1.4E-01	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.1E-01
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.6E-06	mg/kg-day	4.0E-03	mg/kg-day	1.9E-03
	(Total)										1.9E-03
Dermal	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.3E-06	mg/kg-day	4.0E-03	mg/kg-day	5.7E-04
	(Total)										5.7E-04
										Total Hazard Index Across All Exposure Routes/Pathways	2.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.6.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+01	mg/kg	1.3E-02	mg/m^3	R	2.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.6.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.3E+00	mg/kg	3.3E+00	mg/kg	M	1.1E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.1E-07
	(Total)										1.1E-07
Dermal	**VOCs**										
	Benzene	3.3E+00	mg/kg	3.3E+00	mg/kg	M	7.6E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	7.6E-08
	(Total)										7.6E-08
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.3E+00	mg/kg	6.1E-04	mg/m^3	R	3.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.2E-06
										Total Risk Across All Exposure Routes/Pathways	3.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-04
										Total Risk Across All Exposure Routes/Pathways	2.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	9.9E-03	mg/m^3	9.9E-03	mg/m^3	M	5.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.2E-05
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	6.0E-04	mg/kg-day	--	--	--
	Toluene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	9.7E-04	mg/kg-day	--	--	--
	Xylenes	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	3.3E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.6E-05	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.6E-06
	(Total)										4.6E-06
Dermal	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.5E-05	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.5E-06
	(Total)										1.5E-06
										Total Risk Across All Exposure Routes/Pathways	6.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+01	mg/kg	5.0E-03	mg/m^3	R	7.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.4E-05
										Total Risk Across All Exposure Routes/Pathways	7.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.5E-01	mg/m^3	8.5E-01	mg/m^3	M	1.3E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-02
										Total Risk Across All Exposure Routes/Pathways	1.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.7E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.7E-04
	Ethylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	--	--	--
	Toluene	6.5E-02	mg/m^3	6.5E-02	mg/m^3	M	9.6E-03	mg/kg-day	--	--	--
	Xylenes	2.2E-01	mg/m^3	2.2E-01	mg/m^3	M	3.3E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.1E-08
	(Total)										1.1E-08
Dermal	**VOCs**										
	Benzene	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.3E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	3.3E-09
	(Total)										3.3E-09
										Total Risk Across All Exposure Routes/Pathways	1.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+01	mg/kg	1.3E-02	mg/m^3	R	2.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-07
										Total Risk Across All Exposure Routes/Pathways	2.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.6.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.1E-07	--	7.6E-08	1.9E-07	Benzene	Blood	8.0E-04	--	5.3E-04	1.3E-03
			(Total)	1.1E-07	--	7.6E-08	1.9E-07	(Total)		8.0E-04	--	5.3E-04	1.3E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	3.2E-06	--	3.2E-06	Benzene	Blood	--	5.2E-03	--	5.2E-03
			(Total)	--	3.2E-06	--	3.2E-06	(Total)		--	5.2E-03	--	5.2E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.1E-04	--	2.1E-04	Benzene	Blood	--	3.5E-01	--	3.5E-01
			(Total)	--	2.1E-04	--	2.1E-04	(Total)		--	3.5E-01	--	3.5E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.2E-05	--	5.2E-05	Benzene	Blood	--	8.5E-02	--	8.5E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.9E-03	--	2.9E-03
			Toluene	--	--	--	--	Toluene	CNS	--	3.2E-02	--	3.2E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.7E-02	--	4.7E-02
			(Total)	--	5.2E-05	--	5.2E-05	(Total)		--	1.7E-01	--	1.7E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.4E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.6E-03
Total Risk for Shallow Soil-to-Indoor Air =	2.1E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.5E-01
Total Risk for Deep Soil-to-Indoor Air =	5.2E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	1.7E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.6.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.6E-06	--	1.5E-06	6.1E-06	Benzene	Blood	9.4E-02	--	2.6E-02	1.2E-01
			(Total)	4.6E-06	--	1.5E-06	6.1E-06	(Total)		9.4E-02	--	2.6E-02	1.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	7.4E-05	--	7.4E-05	Benzene	Blood	--	1.9E-01	--	1.9E-01
			(Total)	--	7.4E-05	--	7.4E-05	(Total)		--	1.9E-01	--	1.9E-01
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.3E-02	--	1.3E-02	Benzene	Blood	--	3.2E+01	--	3.2E+01
			(Total)	--	1.3E-02	--	1.3E-02	(Total)		--	3.2E+01	--	3.2E+01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.7E-04	--	3.7E-04	Benzene	Blood	--	9.2E-01	--	9.2E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.5E-02	--	4.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.8E-01	--	4.8E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.1E-01	--	7.1E-01
			(Total)	--	3.7E-04	--	3.7E-04	(Total)		--	2.2E+00	--	2.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.0E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.1E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-02	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E+01
Total Risk for Deep Soil-to-Indoor Air =	3.7E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	2.2E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.6.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.1E-08	--	3.3E-09	1.4E-08	Benzene	Blood	1.9E-03	--	5.7E-04	2.5E-03
			(Total)	1.1E-08	--	3.3E-09	1.4E-08	(Total)		1.9E-03	--	5.7E-04	2.5E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	2.9E-07	--	2.9E-07	Benzene	Blood	--	1.2E-02	--	1.2E-02
			(Total)	--	2.9E-07	--	2.9E-07	(Total)		--	1.2E-02	--	1.2E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.5E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-24	**EAPC No.:** 7

RME Exposure Scenario

TABLE 7.7.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	9.3E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
	SVOCs										
	2-Methylnaphthalene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.6E-04
	Benzo(a)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Chrysene	4.4E-04	mg/kg	4.4E-04	mg/kg	M	4.3E-10	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	3.3E-02	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Naphthalene*	4.1E+00	mg/kg	4.1E+00	mg/kg	M	4.0E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
	VOCs										
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	3.6E+00	mg/kg	M	3.5E-06	mg/kg-day	5.0E-02	mg/kg-day	7.1E-05
	Benzene	4.4E-01	mg/kg	4.4E-01	mg/kg	M	4.3E-07	mg/kg-day	4.0E-03	mg/kg-day	1.1E-04
	Naphthalene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
	Xylenes	3.3E+01	mg/kg	3.3E+01	mg/kg	M	3.2E-05	mg/kg-day	2.0E-01	mg/kg-day	1.6E-04
	(Total)										3.2E-02
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.1E-03
	SVOCs										
	2-Methylnaphthalene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.1E-05	mg/kg-day	2.0E-02	mg/kg-day	5.6E-04
	Benzo(a)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Chrysene	4.4E-04	mg/kg	4.4E-04	mg/kg	M	3.7E-10	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	3.3E-02	mg/kg	M	2.7E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Naphthalene*	4.1E+00	mg/kg	4.1E+00	mg/kg	M	2.6E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
	VOCs										
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	3.6E+00	mg/kg	M	2.3E-06	mg/kg-day	5.0E-02	mg/kg-day	4.7E-05
	Benzene	4.4E-01	mg/kg	4.4E-01	mg/kg	M	2.8E-07	mg/kg-day	4.0E-03	mg/kg-day	7.1E-05
	Naphthalene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	4.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
	Xylenes	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.1E-05	mg/kg-day	2.0E-01	mg/kg-day	1.1E-04
	(Total)										7.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	4.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.7.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	2.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.4E-04
	SVOCs												
	2-Methylnaphthalene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	3.0E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-06
	Benzo(a)anthracene	2.8E-01	mg/kg	4.2E-10	mg/m^3	R	6.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	2.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	2.9E-11	mg/kg-day	--	--	--	--	--
	Chrysene	4.4E-04	mg/kg	6.6E-13	mg/m^3	R	9.7E-14	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	4.9E-11	mg/m^3	R	7.2E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.9E-10	mg/m^3	R	2.8E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	4.1E+00	mg/kg	6.1E-09	mg/m^3	R	9.0E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.5E-07
	VOCs												
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	9.5E-05	mg/m^3	R	1.4E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.1E-03
	Benzene	4.4E-01	mg/kg	8.1E-05	mg/m^3	R	1.2E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.0E-04
	Naphthalene	6.3E+00	mg/kg	7.4E-05	mg/m^3	R	1.1E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	4.2E-03
	Xylenes	3.3E+01	mg/kg	2.8E-03	mg/m^3	R	4.0E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	2.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.6E-01
	1,3,5-Trimethylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.8E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.2E-02
	Benzene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	7.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.6E-02
	Ethylbenzene	3.2E-02	mg/m^3	3.2E-02	mg/m^3	M	4.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.3E-03
	Isopropylbenzene	2.3E-01	mg/m^3	2.3E-01	mg/m^3	M	3.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	3.0E-01
	p-Isopropyltoluene	3.6E-01	mg/m^3	3.6E-01	mg/m^3	M	5.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	4.7E-01
	Naphthalene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	2.6E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.0E-02
	n-Propylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	8.0E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.0E-03
	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.2E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.2E-02
	Xylenes	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.8E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	2.5E-04	mg/kg-day	3.0E-04	mg/kg-day	8.2E-01
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	6.3E-04	mg/kg-day	2.0E-02	mg/kg-day	3.1E-02
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	5.5E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	1.0E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.2E-06	mg/kg-day	--	--	--
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	2.0E-02	mg/kg-day	8.9E-03
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.4E-04	mg/kg-day	5.0E-02	mg/kg-day	2.8E-03
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	3.5E-05	mg/kg-day	4.0E-03	mg/kg-day	8.6E-03
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.9E-04	mg/kg-day	2.0E-02	mg/kg-day	9.6E-03
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	9.2E-04	mg/kg-day	2.0E-01	mg/kg-day	4.6E-03
	(Total)										8.8E-01
Dermal	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	6.9E-02
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	2.3E-04	mg/kg-day	2.0E-02	mg/kg-day	1.1E-02
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	3.8E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.0E-05	mg/kg-day	2.0E-02	mg/kg-day	2.5E-03
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	3.9E-05	mg/kg-day	5.0E-02	mg/kg-day	7.9E-04
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	9.7E-06	mg/kg-day	4.0E-03	mg/kg-day	2.4E-03
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.4E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	2.6E-04	mg/kg-day	2.0E-01	mg/kg-day	1.3E-03
	(Total)										9.0E-02
										Total Hazard Index Across All Exposure Routes/Pathways	9.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.7.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	1.8E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.1E-03
	SVOCs												
	2-Methylnaphthalene	4.9E+01	mg/kg	7.4E-08	mg/m^3	R	4.7E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.8E-05
	Benzo(a)anthracene	4.3E-01	mg/kg	6.5E-10	mg/m^3	R	4.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Chrysene	8.2E-01	mg/kg	1.2E-09	mg/m^3	R	7.9E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	8.3E-11	mg/m^3	R	5.3E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Naphthalene*	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	5.2E-06
	VOCs												
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	2.6E-04	mg/m^3	R	1.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.8E-02
	Benzene	2.7E+00	mg/kg	4.6E-04	mg/m^3	R	2.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E-02
	Naphthalene	1.5E+01	mg/kg	1.6E-04	mg/m^3	R	1.0E-04	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	4.0E-02
	Xylenes	7.2E+01	mg/kg	5.5E-03	mg/m^3	R	3.5E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.8E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	8.5E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	5.0E+00
	1,3,5-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.5E-01
	Benzene	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	5.0E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E+00
	Ethylbenzene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	2.5E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.4E-01
	Isopropylbenzene	1.4E+00	mg/m^3	1.4E+00	mg/m^3	M	8.8E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	7.9E+00
	p-Isopropyltoluene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	1.5E+00	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.3E+01
	Naphthalene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	6.3E-04	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.5E-01
	n-Propylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.7E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.3E-02
	Tetrachloroethene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+00
	Xylenes	4.8E-01	mg/m^3	4.8E-01	mg/m^3	M	3.1E-01	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.5E+00
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	5.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.3E-04
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	2.1E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	2.0E-02	mg/kg-day	1.8E-04
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	2.8E-06	mg/kg-day	5.0E-02	mg/kg-day	5.7E-05
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	7.0E-07	mg/kg-day	4.0E-03	mg/kg-day	1.7E-04
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	1.9E-05	mg/kg-day	2.0E-01	mg/kg-day	9.3E-05
	(Total)										1.8E-02
Dermal	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	4.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	4.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	8.3E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	5.5E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.4E-05
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	8.5E-07	mg/kg-day	5.0E-02	mg/kg-day	1.7E-05
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.1E-07	mg/kg-day	4.0E-03	mg/kg-day	5.2E-05
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	5.8E-05
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	5.6E-06	mg/kg-day	2.0E-01	mg/kg-day	2.8E-05
	(Total)										1.9E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.7.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.9E+01	mg/kg	3.9E-08	mg/m^3	R	6.1E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.1E-05
	SVOCs												
	2-Methylnaphthalene	4.9E+01	mg/kg	9.9E-08	mg/m^3	R	1.6E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	6.0E-07
	Benzo(a)anthracene	4.3E-01	mg/kg	8.7E-10	mg/m^3	R	1.4E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Chrysene	8.2E-01	mg/kg	1.7E-09	mg/m^3	R	2.6E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.7E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	7.9E-12	mg/kg-day	--	--	--	--	--
	Naphthalene*	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.7E-07
	VOCs												
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	7.0E-04	mg/m^3	R	1.1E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.4E-03
	Benzene	2.7E+00	mg/kg	1.2E-03	mg/m^3	R	1.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-03
	Naphthalene	1.5E+01	mg/kg	4.2E-04	mg/m^3	R	6.6E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.6E-03
	Xylenes	7.2E+01	mg/kg	1.5E-02	mg/m^3	R	2.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.7.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	3.3E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.0E-06
	SVOCs										
	2-Methylnaphthalene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.7E-06	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	9.7E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.2E-07
	Benzo(a)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	8.3E-07
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.2E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.1E-08
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	4.6E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.6E-08
	Chrysene	4.4E-04	mg/kg	4.4E-04	mg/kg	M	1.5E-10	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.8E-11
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	3.3E-02	mg/kg	M	1.1E-08	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	4.7E-08
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	4.5E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.4E-08
	Naphthalene*	4.1E+00	mg/kg	4.1E+00	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	3.6E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzene	4.4E-01	mg/kg	4.4E-01	mg/kg	M	1.5E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.5E-08
	Naphthalene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	Xylenes	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	(Total)										6.1E-06
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	6.5E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.8E-07
	SVOCs										
	2-Methylnaphthalene	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	8.3E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.0E-07
	Benzo(a)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	7.2E-07
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.6E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.4E-08
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	4.0E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.8E-08
	Chrysene	4.4E-04	mg/kg	4.4E-04	mg/kg	M	1.3E-10	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.6E-11
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	3.3E-02	mg/kg	M	9.8E-09	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	4.0E-08
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	3.9E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.6E-08
	Naphthalene*	4.1E+00	mg/kg	4.1E+00	mg/kg	M	9.4E-07	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	3.6E+00	mg/kg	M	8.3E-07	mg/kg-day	--	--	--
	Benzene	4.4E-01	mg/kg	4.4E-01	mg/kg	M	1.0E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.0E-08
	Naphthalene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	Xylenes	3.3E+01	mg/kg	3.3E+01	mg/kg	M	7.5E-06	mg/kg-day	--	--	--
	(Total)										2.0E-06
										Total Risk Across All Exposure Routes/Pathways	8.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	7.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.9E-09
	SVOCs										
	2-Methylnaphthalene	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.1E-09	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.8E-01	mg/kg	4.2E-10	mg/m^3	R	2.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.5E-12
	Benzo(a)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	6.1E-11
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	9.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-12
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	1.0E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.1E-12
	Chrysene	4.4E-04	mg/kg	6.6E-13	mg/m^3	R	3.5E-14	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.3E-15
	Dibenzo(a,h)anthracene	3.3E-02	mg/kg	4.9E-11	mg/m^3	R	2.6E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.1E-11
	Indeno(1,2,3-cd)pyrene	1.3E-01	mg/kg	1.9E-10	mg/m^3	R	1.0E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.0E-12
	Naphthalene*	4.1E+00	mg/kg	6.1E-09	mg/m^3	R	3.2E-10	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	3.6E+00	mg/kg	9.5E-05	mg/m^3	R	5.0E-06	mg/kg-day	--	--	--
	Benzene	4.4E-01	mg/kg	8.1E-05	mg/m^3	R	4.3E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.3E-07
	Naphthalene	6.3E+00	mg/kg	7.4E-05	mg/m^3	R	3.9E-06	mg/kg-day	--	--	--
	Xylenes	3.3E+01	mg/kg	2.8E-03	mg/m^3	R	1.4E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	9.8E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Benzene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	2.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-05
	Ethylbenzene	3.2E-02	mg/m^3	3.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	--	--	--
	Isopropylbenzene	2.3E-01	mg/m^3	2.3E-01	mg/m^3	M	1.2E-02	mg/kg-day	--	--	--
	p-Isopropyltoluene	3.6E-01	mg/m^3	3.6E-01	mg/m^3	M	1.9E-02	mg/kg-day	--	--	--
	Naphthalene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	9.2E-06	mg/kg-day	--	--	--
	n-Propylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	7.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-06
	Xylenes	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	4.9E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	4.5E-05
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	7.7E-05	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	6.7E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	8.1E-07
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	4.7E-06
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.7E-07
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.7E-07
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	1.3E-06	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.5E-07
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	8.6E-08	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	3.5E-07
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.9E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.7E-07
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.7E-05	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	4.2E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.2E-07
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	2.3E-05	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	1.1E-04	mg/kg-day	--	--	--
	(Total)										5.3E-05
Dermal	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	2.8E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	4.3E-06
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	3.1E-05	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	2.8E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.3E-07
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	1.9E-06
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.9E-07
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.9E-07
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	5.3E-07	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	6.3E-08
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	3.5E-08	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	1.4E-07
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.9E-07
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.9E-06	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	5.4E-06	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.3E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.3E-07
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	7.4E-06	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	3.6E-05	mg/kg-day	--	--	--
	(Total)										7.4E-06
										Total Risk Across All Exposure Routes/Pathways	6.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	2.9E-08	mg/m^3	R	4.3E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.1E-08
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	7.4E-08	mg/m^3	R	1.1E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	6.5E-10	mg/m^3	R	9.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-11
	Benzo(a)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.2E-10
	Benzo(b)fluoranthene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	Benzo(k)fluoranthene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	Chrysene	8.2E-01	mg/kg	1.2E-09	mg/m^3	R	1.8E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	7.1E-12
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	8.3E-11	mg/m^3	R	1.2E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.0E-11
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	3.8E-10	mg/m^3	R	5.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	Naphthalene*	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	2.6E-04	mg/m^3	R	3.9E-05	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	4.6E-04	mg/m^3	R	6.8E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.8E-06
	Naphthalene	1.5E+01	mg/kg	1.6E-04	mg/m^3	R	2.4E-05	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	5.5E-03	mg/m^3	R	8.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
	Benzene	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	1.2E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-03
	Ethylbenzene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	5.8E-02	mg/kg-day	--	--	--
	Isopropylbenzene	1.4E+00	mg/m^3	1.4E+00	mg/m^3	M	2.0E-01	mg/kg-day	--	--	--
	p-Isopropyltoluene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	3.4E-01	mg/kg-day	--	--	--
	Naphthalene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	n-Propylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	4.0E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-05
	Xylenes	4.8E-01	mg/m^3	4.8E-01	mg/m^3	M	7.1E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	7.1E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.1E-07
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	1.8E-07	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	1.6E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.9E-09
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	1.1E-08
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-09
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-09
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	3.0E-09	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	3.6E-10
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	2.0E-10	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	8.3E-10
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	9.2E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-09
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.0E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.0E-09
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.5E-08	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	(Total)										1.2E-07
Dermal	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	1.9E+01	mg/kg	M	6.4E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.6E-09
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	4.9E+01	mg/kg	M	7.1E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	4.3E-01	mg/kg	M	6.2E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	7.4E-10
	Benzo(a)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	4.3E-09
	Benzo(b)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.3E-10
	Benzo(k)fluoranthene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.3E-10
	Chrysene	8.2E-01	mg/kg	8.2E-01	mg/kg	M	1.2E-09	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.4E-10
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	5.5E-02	mg/kg	M	7.9E-11	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	3.2E-10
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.3E-10
	Naphthalene*	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	3.0E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	3.0E-10
	Naphthalene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	7.2E+01	mg/kg	M	8.0E-08	mg/kg-day	--	--	--
	(Total)										1.7E-08
										Total Risk Across All Exposure Routes/Pathways	1.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.9E+01	mg/kg	3.9E-08	mg/m^3	R	8.7E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.0E-10
	SVOCs										
	2-Methylnaphthalene	4.9E+01	mg/kg	9.9E-08	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--
	Benzo(a)anthracene	4.3E-01	mg/kg	8.7E-10	mg/m^3	R	1.9E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.6E-14
	Benzo(a)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.4E-13
	Benzo(b)fluoranthene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.4E-14
	Benzo(k)fluoranthene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.4E-14
	Chrysene	8.2E-01	mg/kg	1.7E-09	mg/m^3	R	3.7E-13	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.4E-14
	Dibenzo(a,h)anthracene	5.5E-02	mg/kg	1.1E-10	mg/m^3	R	2.5E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.0E-13
	Indeno(1,2,3-cd)pyrene	2.5E-01	mg/kg	5.1E-10	mg/m^3	R	1.1E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.4E-14
	Naphthalene*	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	1.1E+01	mg/kg	7.0E-04	mg/m^3	R	1.6E-07	mg/kg-day	--	--	--
	Benzene	2.7E+00	mg/kg	1.2E-03	mg/m^3	R	2.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-08
	Naphthalene	1.5E+01	mg/kg	4.2E-04	mg/m^3	R	9.5E-08	mg/kg-day	--	--	--
	Xylenes	7.2E+01	mg/kg	1.5E-02	mg/m^3	R	3.3E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.7.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	5.0E-06	--	9.8E-07	5.9E-06	Arsenic	Skin	3.1E-02	--	6.1E-03	3.7E-02
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	6.6E-04	--	5.6E-04	1.2E-03
			Benzo(a)anthracene	1.2E-07	--	1.0E-07	2.2E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	8.3E-07	--	7.2E-07	1.6E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.1E-08	--	4.4E-08	9.4E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	5.6E-08	--	4.8E-08	1.0E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.8E-11	--	1.6E-11	3.4E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	4.7E-08	--	4.0E-08	8.7E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.4E-08	--	4.6E-08	1.0E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*					Naphthalene*	Weight	2.0E-04	--	1.3E-04	3.3E-04
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	7.1E-05	--	4.7E-05	1.2E-04
			Benzene	1.5E-08	--	1.0E-08	2.6E-08	Benzene	Blood	1.1E-04	--	7.1E-05	1.8E-04
			Naphthalene	--	--	--	--	Naphthalene	Weight	3.1E-04	--	2.0E-04	5.1E-04
			Xylenes	--	--	--	--	Xylenes	Weight	1.6E-04	--	1.1E-04	2.7E-04
			(Total)	6.1E-06	--	2.0E-06	8.1E-06	(Total)		3.2E-02	--	7.2E-03	4.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	8.9E-09	--	8.9E-09	Arsenic	Developmental	--	2.4E-04	--	2.4E-04
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	1.1E-06	--	1.1E-06
			Benzo(a)anthracene	--	8.5E-12	--	8.5E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	6.1E-11	--	6.1E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.7E-12	--	3.7E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	4.1E-12	--	4.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.3E-15	--	1.3E-15	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.1E-11	--	1.1E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	4.0E-12	--	4.0E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	3.5E-07	--	3.5E-07
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	8.1E-03	--	8.1E-03
			Benzene	--	4.3E-07	--	4.3E-07	Benzene	Blood	--	7.0E-04	--	7.0E-04
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	4.2E-03	--	4.2E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.0E-03	--	2.0E-03
			(Total)	--	4.4E-07	--	4.4E-07	(Total)		--	1.5E-02	--	1.5E-02

TABLE 9.7.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.6E-01	--	1.6E-01
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.2E-02	--	2.2E-02
			Benzene	--	2.8E-05	--	2.8E-05	Benzene	Blood	--	4.6E-02	--	4.6E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.3E-03	--	8.3E-03
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	3.0E-01	--	3.0E-01
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	4.7E-01	--	4.7E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.0E-02	--	1.0E-02
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	2.0E-03	--	2.0E-03
			Tetrachloroethene	--	1.6E-06	--	1.6E-06	Tetrachloroethene	Liver/Kidney	--	2.2E-02	--	2.2E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.8E-02	--	6.8E-02
			(Total)	--	3.0E-05	--	3.0E-05	(Total)		--	1.1E+00	--	1.1E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.6E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.5E-02
Total Risk for Shallow Soil-to-Indoor Air =	3.0E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.7.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	4.5E-05	--	4.3E-06	4.9E-05	Arsenic	Skin	8.2E-01	--	6.9E-02	8.9E-01
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	3.1E-02	--	1.1E-02	4.3E-02
			Benzo(a)anthracene	8.1E-07	--	3.3E-07	1.1E-06	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.7E-06	--	1.9E-06	6.6E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.7E-07	--	1.9E-07	6.6E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	4.7E-07	--	1.9E-07	6.6E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.5E-07	--	6.3E-08	2.2E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.5E-07	--	1.4E-07	5.0E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.7E-07	--	1.9E-07	6.6E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	8.9E-03	--	2.5E-03	1.1E-02
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	2.8E-03	--	7.9E-04	3.6E-03
			Benzene	4.2E-07	--	1.3E-07	5.6E-07	Benzene	Blood	8.6E-03	--	2.4E-03	1.1E-02
			Naphthalene	--	--	--	--	Naphthalene	Weight	9.6E-03	--	2.7E-03	1.2E-02
			Xylenes	--	--	--	--	Xylenes	Weight	4.6E-03	--	1.3E-03	5.9E-03
			(Total)	5.3E-05	--	7.4E-06	6.0E-05	(Total)		8.8E-01	--	9.0E-02	9.7E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	5.1E-08	--	5.1E-08	Arsenic	Developmental	--	2.1E-03	--	2.1E-03
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	1.8E-05	--	1.8E-05
			Benzo(a)anthracene	--	3.7E-11	--	3.7E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.2E-10	--	2.2E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.2E-11	--	2.2E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.2E-11	--	2.2E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	7.1E-12	--	7.1E-12	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	5.0E-11	--	5.0E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	2.2E-11	--	2.2E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	5.2E-06	--	5.2E-06
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.8E-02	--	9.8E-02
			Benzene	--	6.8E-06	--	6.8E-06	Benzene	Blood	--	1.7E-02	--	1.7E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	4.0E-02	--	4.0E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.8E-02	--	1.8E-02
			(Total)	--	6.8E-06	--	6.8E-06	(Total)		--	1.7E-01	--	1.7E-01

TABLE 9.7.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	5.0E+00	--	5.0E+00
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	6.5E-01	--	6.5E-01
			Benzene	--	1.2E-03	--	1.2E-03	Benzene	Blood	--	2.9E+00	--	2.9E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.4E-01	--	4.4E-01
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	7.9E+00	--	7.9E+00
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	1.3E+01	--	1.3E+01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.5E-01	--	2.5E-01
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.3E-02	--	4.3E-02
			Tetrachloroethene	--	5.3E-05	--	5.3E-05	Tetrachloroethene	Liver/Kidney	--	1.1E+00	--	1.1E+00
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.5E+00	--	1.5E+00
			(Total)	--	1.2E-03	--	1.2E-03	(Total)		--	3.3E+01	--	3.3E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.7E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.1E+00
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.3E+01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.7.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.1E-07	--	9.6E-09	1.2E-07	Arsenic	Skin	1.7E-02	--	1.5E-03	1.8E-02
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	6.3E-04	--	2.5E-04	8.8E-04
			Benzo(a)anthracene	1.9E-09	--	7.4E-10	2.6E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.1E-08	--	4.3E-09	1.5E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.1E-09	--	4.3E-10	1.5E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.1E-09	--	4.3E-10	1.5E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	3.6E-10	--	1.4E-10	5.0E-10	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	8.3E-10	--	3.2E-10	1.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.1E-09	--	4.3E-10	1.5E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	1.8E-04	--	5.4E-05	2.4E-04
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	5.7E-05	--	1.7E-05	7.4E-05
			Benzene	1.0E-09	--	3.0E-10	1.3E-09	Benzene	Blood	1.7E-04	--	5.2E-05	2.3E-04
			Naphthalene	--	--	--	--	Naphthalene	Weight	1.9E-04	--	5.8E-05	2.5E-04
			Xylenes	--	--	--	--	Xylenes	Weight	9.3E-05	--	2.8E-05	1.2E-04
			(Total)	1.2E-07	--	1.7E-08	1.4E-07	(Total)		1.8E-02	--	1.9E-03	2.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.0E-10	--	1.0E-10	Arsenic	Developmental	--	7.1E-05	--	7.1E-05
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	6.0E-07	--	6.0E-07
			Benzo(a)anthracene	--	7.6E-14	--	7.6E-14	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.4E-13	--	4.4E-13	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	4.4E-14	--	4.4E-14	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	4.4E-14	--	4.4E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.4E-14	--	1.4E-14	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.0E-13	--	1.0E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	4.4E-14	--	4.4E-14	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	1.7E-07	--	1.7E-07
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.4E-03	--	6.4E-03
			Benzene	--	2.7E-08	--	2.7E-08	Benzene	Blood	--	1.1E-03	--	1.1E-03
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.6E-03	--	2.6E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-03	--	1.1E-03
			(Total)	--	2.7E-08	--	2.7E-08	(Total)		--	1.1E-02	--	1.1E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.7E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.1E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-26	**EAPC No.:** 8

RME Exposure Scenario

TABLE 7.8.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	2.4E-07	mg/kg-day	4.0E-03	mg/kg-day	6.1E-05
	(Total)										6.1E-05
Dermal	**VOCs**										
	Benzene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	1.6E-07	mg/kg-day	4.0E-03	mg/kg-day	4.0E-05
	(Total)										4.0E-05
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.5E-01	mg/kg	4.6E-05	mg/m^3	R	6.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	4.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-02
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	5.4E-07	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	2.1E-05
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	4.6E-06	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	8.0E-05
	Xylenes	7.4E-04	mg/m^3	7.4E-04	mg/m^3	M	1.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.5E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.9E-03	mg/m^3	4.9E-03	mg/m^3	M	7.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.2E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	1.1E-05	mg/kg-day	4.0E-03	mg/kg-day	2.8E-03
	(Total)										2.8E-03
Dermal	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	3.2E-06	mg/kg-day	4.0E-03	mg/kg-day	8.0E-04
	(Total)										8.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	3.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.9E-01	mg/kg	1.5E-04	mg/m^3	R	9.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.6E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.6E-01
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	5.5E-06	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	2.2E-04
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	4.7E-05	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	8.2E-04
	Xylenes	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	1.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	1.7E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E+00
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	2.3E-07	mg/kg-day	4.0E-03	mg/kg-day	5.7E-05
	(Total)										5.7E-05
Dermal	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	6.9E-08	mg/kg-day	4.0E-03	mg/kg-day	1.7E-05
	(Total)										1.7E-05
										Total Hazard Index Across All Exposure Routes/Pathways	7.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.8.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.9E-01	mg/kg	4.0E-04	mg/m^3	R	6.2E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.8.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	8.7E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	8.7E-09
	(Total)										8.7E-09
Dermal	**VOCs**										
	Benzene	2.5E-01	mg/kg	2.5E-01	mg/kg	M	5.7E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	5.7E-09
	(Total)										5.7E-09
										Total Risk Across All Exposure Routes/Pathways	1.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.5E-01	mg/kg	4.6E-05	mg/m^3	R	2.4E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-07
										Total Risk Across All Exposure Routes/Pathways	2.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	1.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-05
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	1.9E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	1.2E-09
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	--	--	--
	Xylenes	7.4E-04	mg/m^3	7.4E-04	mg/m^3	M	3.9E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.9E-03	mg/m^3	4.9E-03	mg/m^3	M	2.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-05
										Total Risk Across All Exposure Routes/Pathways	2.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	1.4E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.4E-07
	(Total)										1.4E-07
Dermal	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	4.4E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.4E-08
	(Total)										4.4E-08
										Total Risk Across All Exposure Routes/Pathways	1.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.9E-01	mg/kg	1.5E-04	mg/m^3	R	2.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-06
										Total Risk Across All Exposure Routes/Pathways	2.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	3.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.8E-04
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	1.3E-06	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	8.1E-09
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Xylenes	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	3.8E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	4.1E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.1E-04
										Total Risk Across All Exposure Routes/Pathways	4.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	3.3E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	3.3E-10
	(Total)										3.3E-10
Dermal	**VOCs**										
	Benzene	8.9E-01	mg/kg	8.9E-01	mg/kg	M	9.9E-10	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	9.9E-11
	(Total)										9.9E-11
										Total Risk Across All Exposure Routes/Pathways	4.3E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.9E-01	mg/kg	4.0E-04	mg/m^3	R	8.9E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.9E-09
										Total Risk Across All Exposure Routes/Pathways	8.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.8.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-26
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	8.7E-09	--	5.7E-09	1.4E-08	Benzene	Blood	6.1E-05	--	4.0E-05	1.0E-04
			(Total)	8.7E-09	--	5.7E-09	1.4E-08	(Total)		6.1E-05	--	4.0E-05	1.0E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	2.4E-07	--	2.4E-07	Benzene	Blood	--	3.9E-04	--	3.9E-04
			(Total)	--	2.4E-07	--	2.4E-07	(Total)		--	3.9E-04	--	3.9E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.6E-05	--	1.6E-05	Benzene	Blood	--	2.6E-02	--	2.6E-02
			Chloromethane	--	1.2E-09	--	1.2E-09	Chloromethane	CNS	--	2.1E-05	--	2.1E-05
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	8.0E-05	--	8.0E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.5E-04	--	5.5E-04
			(Total)	--	1.6E-05	--	1.6E-05	(Total)		--	2.7E-02	--	2.7E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.6E-05	--	2.6E-05	Benzene	Blood	--	4.2E-02	--	4.2E-02
			(Total)	--	2.6E-05	--	2.6E-05	(Total)		--	4.2E-02	--	4.2E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.9E-04
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.7E-02
Total Risk for Deep Soil-to-Indoor Air =	2.6E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	4.2E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.8.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.4E-07	--	4.4E-08	1.8E-07	Benzene	Blood	2.8E-03	--	8.0E-04	3.6E-03
			(Total)	1.4E-07	--	4.4E-08	1.8E-07	(Total)		2.8E-03	--	8.0E-04	3.6E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	2.2E-06	--	2.2E-06	Benzene	Blood	--	5.6E-03	--	5.6E-03
			(Total)	--	2.2E-06	--	2.2E-06	(Total)		--	5.6E-03	--	5.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.8E-04	--	3.8E-04	Benzene	Blood	--	9.6E-01	--	9.6E-01
			Chloromethane	--	8.1E-09	--	8.1E-09	Chloromethane	CNS	--	2.2E-04	--	2.2E-04
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	8.2E-04	--	8.2E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	8.1E-03	--	8.1E-03
			(Total)	--	3.8E-04	--	3.8E-04	(Total)		--	9.7E-01	--	9.7E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.1E-04	--	4.1E-04	Benzene	Blood	--	1.0E+00	--	1.0E+00
			(Total)	--	4.1E-04	--	4.1E-04	(Total)		--	1.0E+00	--	1.0E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.4E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	9.3E-03
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.7E-01
Total Risk for Deep Soil-to-Indoor Air =	4.1E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	1.0E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.8.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	3.3E-10	--	9.9E-11	4.3E-10	Benzene	Blood	5.7E-05	--	1.7E-05	7.5E-05
			(Total)	3.3E-10	--	9.9E-11	4.3E-10	(Total)		5.7E-05	--	1.7E-05	7.5E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	8.9E-09	--	8.9E-09	Benzene	Blood	--	3.6E-04	--	3.6E-04
			(Total)	--	8.9E-09	--	8.9E-09	(Total)		--	3.6E-04	--	3.6E-04
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	9.3E-09					Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.4E-04
						Total Risk for Indoor Air =	--					Total Hazard Index for Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-27	**EAPC No.:** 9

RME Exposure Scenario

TABLE 7.9.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	1.2E-06	mg/kg-day	4.0E-03	mg/kg-day	3.1E-04
	(Total)										3.1E-04
Dermal	**VOCs**										
	Benzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	8.1E-07	mg/kg-day	4.0E-03	mg/kg-day	2.0E-04
	(Total)										2.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	5.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.3E+00	mg/kg	2.3E-04	mg/m^3	R	3.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.0E-05
	Benzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-01
	Methyl isobutyl ketone	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.2E-05
	Xylenes	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	6.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	6.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-01
	Naphthalene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	8.6E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	6.9E-03
	1,1-Dichloroethane	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	2.7E-04	mg/kg-day	1.4E-01	mg/kg-day	4.9E-01	mg/m3	1.9E-03
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-01
	Cyclohexane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.4E-03
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.6E-03
	Methyl Ethyl Ketone	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	8.9E-04
	Methylene Chloride	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.9E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.7E-03
	Styrene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	6.5E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.5E-03
	Tetrachloroethene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-01
	Toluene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	6.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.8E-02
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	7.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.8E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	5.1E-05	mg/kg-day	4.0E-03	mg/kg-day	1.3E-02
	(Total)										1.3E-02
Dermal	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	1.4E-05	mg/kg-day	4.0E-03	mg/kg-day	3.6E-03
	(Total)										3.6E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.0E+00	mg/kg	6.8E-04	mg/m^3	R	4.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.2E-04
	Benzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	7.4E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E+00
	Methyl isobutyl ketone	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.8E-04	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.3E-04
	Xylenes	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	1.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	4.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E-01	mg/m^3	2.6E-01	mg/m^3	M	1.7E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.7E+00
	Naphthalene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	8.8E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.7E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	1.0E-06	mg/kg-day	4.0E-03	mg/kg-day	2.6E-04
	(Total)										2.6E-04
Dermal	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	3.1E-07	mg/kg-day	4.0E-03	mg/kg-day	7.7E-05
	(Total)										7.7E-05
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.9.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.0E+00	mg/kg	1.8E-03	mg/m^3	R	2.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.9.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	4.4E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.4E-08
	(Total)										4.4E-08
Dermal	**VOCs**										
	Benzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.9E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.9E-08
	(Total)										2.9E-08
										Total Risk Across All Exposure Routes/Pathways	7.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.3E+00	mg/kg	2.3E-04	mg/m^3	R	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	5.5E-08	mg/kg-day	--	--	--
	Benzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	8.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.1E-05
	Methyl isobutyl ketone	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	9.9E-06	mg/kg-day	--	--	--
	Xylenes	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	2.2E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	2.4E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-04
	Naphthalene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	3.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	7.0E-04	mg/kg-day	--	--	--
	1,1-Dichloroethane	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	9.6E-05	mg/kg-day	5.7E-03	$mg/kg\text{-}day^{-1}$	5.5E-07
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	7.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.0E-05
	Cyclohexane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	8.3E-04	mg/kg-day	--	--	--
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.3E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	4.5E-04	mg/kg-day	--	--	--
	Methylene Chloride	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	6.8E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.4E-07
	Styrene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	2.3E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	3.9E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.2E-06
	Toluene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	--	--	--
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	2.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	6.3E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	6.3E-07
	(Total)										6.3E-07
Dermal	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	2.0E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.0E-07
	(Total)										2.0E-07
										Total Risk Across All Exposure Routes/Pathways	8.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.0E+00	mg/kg	6.8E-04	mg/m^3	R	1.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-05
										Total Risk Across All Exposure Routes/Pathways	1.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.7E-07	mg/kg-day	--	--	--
	Benzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	1.7E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-03
	Methyl isobutyl ketone	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	Xylenes	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	2.5E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E-01	mg/m^3	2.6E-01	mg/m^3	M	3.9E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.9E-03
	Naphthalene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	1.5E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-09
	(Total)										1.5E-09
Dermal	**VOCs**										
	Benzene	4.0E+00	mg/kg	4.0E+00	mg/kg	M	4.4E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.4E-10
	(Total)										4.4E-10
										Total Risk Across All Exposure Routes/Pathways	1.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.0E+00	mg/kg	1.8E-03	mg/m^3	R	4.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.0E-08
										Total Risk Across All Exposure Routes/Pathways	4.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.9.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-27
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.4E-08	--	2.9E-08	7.3E-08	Benzene	Blood	3.1E-04	--	2.0E-04	5.1E-04
			(Total)	4.4E-08	--	2.9E-08	7.3E-08	(Total)		3.1E-04	--	2.0E-04	5.1E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.2E-06	--	1.2E-06	Benzene	Blood	--	2.0E-03	--	2.0E-03
			(Total)	--	1.2E-06	--	1.2E-06	(Total)		--	2.0E-03	--	2.0E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.0E-05	--	9.0E-05
			Benzene	--	8.1E-05	--	8.1E-05	Benzene	Blood	--	1.3E-01	--	1.3E-01
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.2E-05	--	3.2E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.1E-05	--	3.1E-05
			(Total)	--	8.1E-05	--	8.1E-05	(Total)		--	1.3E-01	--	1.3E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.4E-04	--	2.4E-04	Benzene	Blood	--	3.9E-01	--	3.9E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.4E-04	--	3.4E-04
			(Total)	--	2.4E-04	--	2.4E-04	(Total)		--	3.9E-01	--	3.9E-01
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	6.9E-03	--	6.9E-03
			1,1-Dichloroethane	--	5.5E-07	--	5.5E-07	1,1-Dichloroethane	Kidney	--	1.9E-03	--	1.9E-03
			Benzene	--	7.0E-05	--	7.0E-05	Benzene	Blood	--	1.1E-01	--	1.1E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.4E-03	--	1.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.6E-03	--	3.6E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	8.9E-04	--	8.9E-04
			Methylene Chloride	--	2.4E-07	--	2.4E-07	Methylene Chloride	Liver	--	1.7E-03	--	1.7E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.5E-03	--	2.5E-03
			Tetrachloroethene	--	8.2E-06	--	8.2E-06	Tetrachloroethene	Liver/Kidney	--	1.1E-01	--	1.1E-01
			Toluene	--	--	--	--	Toluene	CNS	--	7.8E-02	--	7.8E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.8E-02	--	3.8E-02
			(Total)	--	7.9E-05	--	7.9E-05	(Total)		--	3.6E-01	--	3.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.3E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.5E-03
Total Risk for Shallow Soil-to-Indoor Air =	8.1E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-01
Total Risk for Deep Soil-to-Indoor Air =	2.4E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	3.9E-01
Total Risk for Workplace Indoor Air =	7.9E-05	Total Hazard Index for Workplace Indoor Air =	3.6E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.9.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	6.3E-07	--	2.0E-07	8.2E-07	Benzene	Blood	1.3E-02	--	3.6E-03	1.6E-02
			(Total)	6.3E-07	--	2.0E-07	8.2E-07	(Total)		1.3E-02	--	3.6E-03	1.6E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.0E-05	--	1.0E-05	Benzene	Blood	--	2.5E-02	--	2.5E-02
			(Total)	--	1.0E-05	--	1.0E-05	(Total)		--	2.5E-02	--	2.5E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.2E-04	--	9.2E-04
			Benzene	--	1.7E-03	--	1.7E-03	Benzene	Blood	--	4.3E+00	--	4.3E+00
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.3E-04	--	3.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.3E-04	--	5.3E-04
			(Total)	--	1.7E-03	--	1.7E-03	(Total)		--	4.3E+00	--	4.3E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.9E-03	--	3.9E-03	Benzene	Blood	--	9.7E+00	--	9.7E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.4E-03	--	3.4E-03
			(Total)	--	3.9E-03	--	3.9E-03	(Total)		--	9.7E+00	--	9.7E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.1E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.2E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.7E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.3E+00
Total Risk for Deep Soil-to-Indoor Air =	3.9E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	9.7E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.9.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.5E-09	--	4.4E-10	1.9E-09	Benzene	Blood	2.6E-04	--	7.7E-05	3.4E-04
			(Total)	1.5E-09	--	4.4E-10	1.9E-09	(Total)		2.6E-04	--	7.7E-05	3.4E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	4.0E-08	--	4.0E-08	Benzene	Blood	--	1.6E-03	--	1.6E-03
			(Total)	--	4.0E-08	--	4.0E-08	(Total)		--	1.6E-03	--	1.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.2E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.0E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-30	**EAPC No.:** 10

RME Exposure Scenario

TABLE 7.10.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-30

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral Reference Dose (2)	Oral Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	5.4E-04	mg/kg-day	1.4E-01	mg/kg-day	3.8E-03
	(Total)										1.1E-02
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.5E-04
	(Total)										3.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Copper	2.9E+03	mg/kg	2.9E+03	mg/kg	M	2.8E-03	mg/kg-day	4.0E-02	mg/kg-day	7.1E-02
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	5.4E-04	mg/kg-day	1.4E-01	mg/kg-day	3.8E-03
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	2.9E-06	mg/kg-day	8.0E-05	mg/kg-day	3.7E-02
	(Total)										1.2E-01
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Copper	2.9E+03	mg/kg	2.9E+03	mg/kg	M	1.9E-04	mg/kg-day	4.0E-02	mg/kg-day	4.7E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.5E-04
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.9E-07	mg/kg-day	8.0E-05	mg/kg-day	2.4E-03
	(Total)										7.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Copper	2.9E+03	mg/kg	4.4E-06	mg/m^3	R	6.4E-07	mg/kg-day	--	--	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.1E-03
	Thallium	3.0E+00	mg/kg	4.5E-09	mg/m^3	R	6.6E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	8.1E-06	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	9.0E-06
	Methyl tert-Butyl Ether	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	2.2E-05	mg/kg-day	2.3E+00	mg/kg-day	8.0E+00	mg/m3	9.5E-06
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	3.2E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.2E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	8.8E-05	mg/kg-day	1.0E-03	mg/kg-day	8.8E-02
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	7.4E-02	mg/kg-day	4.0E-02	mg/kg-day	1.8E+00
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	7.0E-03	mg/kg-day	1.4E-01	mg/kg-day	5.0E-02
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	3.8E-05	mg/kg-day	8.0E-05	mg/kg-day	4.8E-01
	(Total)										2.5E+00
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	2.1E-03	mg/kg-day	4.0E-02	mg/kg-day	5.1E-02
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.3E-02
	(Total)										6.7E-02
										Total Hazard Index Across All Exposure Routes/Pathways	2.5E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	6.6E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.2E-03
	Copper	5.8E+03	mg/kg	8.6E-06	mg/m^3	R	5.5E-06	mg/kg-day	--	--	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	5.3E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	9.2E-03
	Thallium	3.0E+00	mg/kg	4.5E-09	mg/m^3	R	2.9E-09	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	8.2E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	9.1E-05
	Methyl tert-Butyl Ether	3.5E-04	mg/m^3	3.5E-04	mg/m^3	M	2.2E-04	mg/kg-day	2.3E+00	mg/kg-day	8.0E+00	mg/m3	9.8E-05
	Naphthalene	5.1E-07	mg/m^3	5.1E-07	mg/m^3	M	3.3E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	1.5E-03	mg/kg-day	4.0E-02	mg/kg-day	3.7E-02
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.0E-03
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	7.7E-07	mg/kg-day	8.0E-05	mg/kg-day	9.7E-03
	(Total)										5.0E-02
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	5.3E-09	mg/kg-day	1.0E-03	mg/kg-day	5.3E-06
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	4.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.1E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	4.3E-06	mg/kg-day	1.4E-01	mg/kg-day	3.0E-05
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	2.3E-08	mg/kg-day	8.0E-05	mg/kg-day	2.9E-04
	(Total)										1.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	5.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.10.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	2.2E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.8E-05
	Copper	5.8E+03	mg/kg	1.2E-05	mg/m^3	R	1.8E-07	mg/kg-day	--	--	--	--	--
	Manganese	5.5E+02	mg/kg	1.1E-06	mg/m^3	R	1.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.0E-04
	Thallium	3.0E+00	mg/kg	6.1E-09	mg/m^3	R	9.5E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.10.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	(Total)										--
								Total Risk Across All Exposure Routes/Pathways			--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	4.3E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.1E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Copper	2.9E+03	mg/kg	2.9E+03	mg/kg	M	1.0E-03	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Copper	2.9E+03	mg/kg	2.9E+03	mg/kg	M	6.7E-05	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Copper	2.9E+03	mg/kg	4.4E-06	mg/m^3	R	2.3E-07	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	4.3E-08	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	4.5E-09	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.1E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	2.9E-06	mg/kg-day	--	--	--
	Methyl tert-Butyl Ether	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	7.8E-06	mg/kg-day	9.1E-04	$mg/kg\text{-}day^{-1}$	7.1E-09
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	1.1E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.1E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	9.0E-03	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	8.6E-04	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	4.7E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	2.8E-04	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.7E-05	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.3E-08
	Copper	5.8E+03	mg/kg	8.6E-06	mg/m^3	R	1.3E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	4.5E-09	mg/m^3	R	6.7E-10	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	1.9E-05	mg/kg-day	--	--	--
	Methyl tert-Butyl Ether	3.5E-04	mg/m^3	3.5E-04	mg/m^3	M	5.2E-05	mg/kg-day	9.1E-04	$mg/kg\text{-}day^{-1}$	4.7E-08
	Naphthalene	5.1E-07	mg/m^3	5.1E-07	mg/m^3	M	7.6E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	2.1E-05	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	7.6E-11	mg/kg-day	--	--	--
	Copper	5.8E+03	mg/kg	5.8E+03	mg/kg	M	6.4E-07	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	6.1E-08	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	3.0E+00	mg/kg	M	3.3E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	3.1E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.7E-11
	Copper	5.8E+03	mg/kg	1.2E-05	mg/m^3	R	2.6E-09	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	1.1E-06	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--
	Thallium	3.0E+00	mg/kg	6.1E-09	mg/m^3	R	1.4E-12	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.10.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-30
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Manganese	--	--	--	--	Manganese	CNS	3.8E-03	--	2.5E-04	4.1E-03
			(Total)	--	--	--	--	(Total)		1.1E-02	--	3.0E-04	1.1E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.1E-03	--	2.1E-03
			(Total)	--	8.1E-09	--	8.1E-09	(Total)		--	2.4E-03	--	2.4E-03
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Copper	--	--	--	--	Copper	GI	7.1E-02	--	4.7E-03	7.6E-02
			Manganese	--	--	--	--	Manganese	CNS	3.8E-03	--	2.5E-04	4.1E-03
			Thallium	--	--	--	--	Thallium	NOAEL	3.7E-02	--	2.4E-03	3.9E-02
			(Total)	--	--	--	--	(Total)		1.2E-01	--	7.4E-03	1.3E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	--	2.1E-03	--	2.1E-03
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			(Total)	--	8.1E-09	--	8.1E-09	(Total)		--	2.4E-03	--	2.4E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	9.0E-06	--	9.0E-06
			Methyl tert-Butyl Ether	--	7.1E-09	--	7.1E-09	Methyl tert-Butyl Ether	Kidney	--	9.5E-06	--	9.5E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.2E-05	--	1.2E-05
			(Total)	--	7.1E-09	--	7.1E-09	(Total)		--	3.1E-05	--	3.1E-05

Total Risk Across Surface Soil =	8.1E-09	Total Hazard Index Across Surface Soil =	1.3E-02
Total Risk Across Shallow Soil (0-15' bgs) =	8.1E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.3E-01
Total Risk for Shallow Soil-to-Indoor Air =	7.1E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.1E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.10.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	8.8E-02	--	2.5E-04	8.8E-02
			Copper	--	--	--	--	Copper	GI	1.8E+00	--	5.1E-02	1.9E+00
			Manganese	--	--	--	--	Manganese	CNS	5.0E-02	--	1.4E-03	5.2E-02
			Thallium	--	--	--	--	Thallium	NOAEL	4.8E-01	--	1.3E-02	4.9E-01
			(Total)	--	--	--	--	(Total)		2.5E+00	--	6.7E-02	2.5E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.3E-08	--	2.3E-08	Cadmium	Kidney	--	1.2E-03	--	1.2E-03
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	--	9.2E-03	--	9.2E-03
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			(Total)	--	2.3E-08	--	2.3E-08	(Total)		--	1.0E-02	--	1.0E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	9.1E-05	--	9.1E-05
			Methyl tert-Butyl Ether	--	4.7E-08	--	4.7E-08	Methyl tert-Butyl Ether	Kidney	--	9.8E-05	--	9.8E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.3E-04	--	1.3E-04
			(Total)	--	4.7E-08	--	4.7E-08	(Total)		--	3.2E-04	--	3.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.3E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.5E+00
Total Risk for Shallow Soil-to-Indoor Air =	4.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.10.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-03	--	5.3E-06	1.8E-03
			Copper	--	--	--	--	Copper	GI	3.7E-02	--	1.1E-03	3.8E-02
			Manganese	--	--	--	--	Manganese	CNS	1.0E-03	--	3.0E-05	1.0E-03
			Thallium	--	--	--	--	Thallium	NOAEL	9.7E-03	--	2.9E-04	1.0E-02
			(Total)	--	--	--	--	(Total)		5.0E-02	--	1.4E-03	5.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	4.7E-11	--	4.7E-11	Cadmium	Kidney	--	3.8E-05	--	3.8E-05
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	--	3.0E-04	--	3.0E-04
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			(Total)	--	4.7E-11	--	4.7E-11	(Total)		--	3.4E-04	--	3.4E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.7E-11	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.1E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-34	**EAPC No.:** 11

RME Exposure Scenario

TABLE 7.11.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	(Total)										5.3E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	(Total)										9.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.6E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	VOCs										
	Benzene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	6.1E-06	mg/kg-day	4.0E-03	mg/kg-day	1.5E-03
	(Total)										5.4E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	VOCs										
	Benzene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	4.0E-06	mg/kg-day	4.0E-03	mg/kg-day	1.0E-03
	(Total)										1.0E-02
										Total Hazard Index Across All Exposure Routes/Pathways	6.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.11.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.6E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	6.3E+00	mg/kg	1.2E-03	mg/m^3	R	1.7E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.9E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.7E-02	mg/m^3	7.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.6E-01
	Tetrachloroethene	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
	Toluene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	3.6E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	3.0E-04	mg/kg-day	6.0E-01
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	8.8E-05	mg/kg-day	1.0E-03	mg/kg-day	8.8E-02
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.3E-07	mg/kg-day	5.0E-05	mg/kg-day	2.6E-03
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	4.0E-03	mg/kg-day	4.5E-02
	(Total)										7.3E-01
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.0E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.6E-08	mg/kg-day	5.0E-05	mg/kg-day	7.2E-04
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.1E-05	mg/kg-day	4.0E-03	mg/kg-day	1.3E-02
	(Total)										6.4E-02
										Total Hazard Index Across All Exposure Routes/Pathways	8.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.11.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.6E-03
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	6.6E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.2E-03
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	9.6E-12	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.4E+01	mg/kg	2.4E-03	mg/m^3	R	1.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	9.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.1E-01	mg/m^3	4.1E-01	mg/m^3	M	2.6E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E+01
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.3E-02
	Toluene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	8.8E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.6E-09	mg/kg-day	5.0E-05	mg/kg-day	5.2E-05
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.7E-06	mg/kg-day	4.0E-03	mg/kg-day	9.2E-04
	(Total)										1.5E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	5.3E-09	mg/kg-day	1.0E-03	mg/kg-day	5.3E-06
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	7.7E-10	mg/kg-day	5.0E-05	mg/kg-day	1.5E-05
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-06	mg/kg-day	4.0E-03	mg/kg-day	2.8E-04
	(Total)										1.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.11.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	5.2E-05
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	2.2E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.8E-05
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	3.2E-13	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.4E+01	mg/kg	6.3E-03	mg/m^3	R	9.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.11.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.3E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	(Total)										7.4E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.7E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	(Total)										1.5E-06
										Total Risk Across All Exposure Routes/Pathways	8.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	2.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.3E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	VOCs										
	Benzene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	2.2E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.2E-07
	(Total)										7.6E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.7E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	VOCs										
	Benzene	6.3E+00	mg/kg	6.3E+00	mg/kg	M	1.4E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.4E-07
	(Total)										1.6E-06
										Total Risk Across All Exposure Routes/Pathways	9.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
	VOCs										
	Benzene	6.3E+00	mg/kg	1.2E-03	mg/m^3	R	6.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.1E-06
										Total Risk Across All Exposure Routes/Pathways	6.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.7E-02	mg/m^3	7.7E-02	mg/m^3	M	4.0E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.0E-04
	Tetrachloroethene	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	3.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.1E-08
	Toluene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.3E-05
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.6E-08	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.5E-07
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.2E-06
	(Total)										3.5E-05
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	4.9E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	7.9E-08
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	7.0E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	7.0E-07
	(Total)										3.9E-06
										Total Risk Across All Exposure Routes/Pathways	3.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.8E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.3E-08
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	3.6E-11
	VOCs										
	Benzene	1.4E+01	mg/kg	2.4E-03	mg/m^3	R	3.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.6E-05
										Total Risk Across All Exposure Routes/Pathways	3.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.1E-01	mg/m^3	4.1E-01	mg/m^3	M	6.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.1E-03
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	3.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.3E-07
	Toluene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.0E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.7E-08
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.7E-11	mg/kg-day	1.6E+01	mg/kg-day^{-1}	5.9E-10
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	5.2E-09
	(Total)										8.3E-08
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.6E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.0E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	7.6E-11	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.1E-11	mg/kg-day	1.6E+01	mg/kg-day^{-1}	1.8E-10
	VOCs										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.6E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.6E-09
	(Total)										8.7E-09
										Total Risk Across All Exposure Routes/Pathways	9.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.6E-11
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	3.1E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.7E-11
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	4.5E-15	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	7.2E-14
	VOCs										
	Benzene	1.4E+01	mg/kg	6.3E-03	mg/m^3	R	1.4E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.4E-07
										Total Risk Across All Exposure Routes/Pathways	1.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.11.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	7.3E-06	--	1.5E-06	8.8E-06	Arsenic	Skin	4.6E-02	--	9.0E-03	5.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			(Total)	7.4E-06	--	1.5E-06	8.9E-06	(Total)		5.3E-02	--	9.2E-03	6.2E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.3E-08	--	1.3E-08	Arsenic	Developmental	--	3.6E-04	--	3.6E-04
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			(Total)	--	2.1E-08	--	2.1E-08	(Total)		--	6.3E-04	--	6.3E-04
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.3E-06	--	1.5E-06	8.8E-06	Arsenic	Skin	4.6E-02	--	9.0E-03	5.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			VOCs					**VOCs**					
			Benzene	2.2E-07	--	1.4E-07	3.6E-07	Benzene	Blood	1.5E-03	--	1.0E-03	2.5E-03
			(Total)	7.6E-06	--	1.6E-06	9.2E-06	(Total)		5.4E-02	--	1.0E-02	6.4E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.3E-08	--	1.3E-08	Arsenic	Developmental	--	3.6E-04	--	3.6E-04
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	6.1E-06	--	6.1E-06	Benzene	Blood	--	9.9E-03	--	9.9E-03
			(Total)	--	6.1E-06	--	6.1E-06	(Total)		--	1.1E-02	--	1.1E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.0E-04	--	4.0E-04	Benzene	Blood	--	6.6E-01	--	6.6E-01
			Tetrachloroethene	--	8.1E-08	--	8.1E-08	Tetrachloroethene	Liver/Kidney	--	1.1E-03	--	1.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	4.2E-04	--	4.2E-04
			(Total)	--	4.0E-04	--	4.0E-04	(Total)		--	6.6E-01	--	6.6E-01

Total Risk Across Surface Soil =	8.9E-06	Total Hazard Index Across Surface Soil =	6.2E-02
Total Risk Across Shallow Soil (0-15' bgs) =	1.5E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.5E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.0E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.6E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.11.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.3E-05	--	3.1E-06	3.6E-05	Arsenic	Skin	6.0E-01	--	5.0E-02	6.5E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	8.8E-02	--	2.5E-04	8.8E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	2.5E-07	--	7.9E-08	3.3E-07	Dieldrin	Liver	2.6E-03	--	7.2E-04	3.3E-03
			VOCs					**VOCs**					
			Benzene	2.2E-06	--	7.0E-07	2.9E-06	Benzene	Blood	4.5E-02	--	1.3E-02	5.8E-02
			(Total)	3.5E-05	--	3.9E-06	3.9E-05	(Total)		7.3E-01	--	6.4E-02	8.0E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	3.8E-08	--	3.8E-08	Arsenic	Developmental	--	1.6E-03	--	1.6E-03
			Cadmium	--	2.3E-08	--	2.3E-08	Cadmium	Kidney	--	1.2E-03	--	1.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	3.6E-11	--	3.6E-11	Dieldrin	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	3.6E-05	--	3.6E-05	Benzene	Blood	--	9.0E-02	--	9.0E-02
			(Total)	--	3.6E-05	--	3.6E-05	(Total)		--	9.2E-02	--	9.2E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	6.1E-03	--	6.1E-03	Benzene	Blood	--	1.5E+01	--	1.5E+01
			Tetrachloroethene	--	6.3E-07	--	6.3E-07	Tetrachloroethene	Liver/Kidney	--	1.3E-02	--	1.3E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.0E-02	--	1.0E-02
			(Total)	--	6.1E-03	--	6.1E-03	(Total)		--	1.5E+01	--	1.5E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.5E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	8.9E-01
Total Risk for Shallow Soil-to-Indoor Air =	6.1E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.5E+01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.11.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.7E-08	--	7.0E-09	8.4E-08	Arsenic	Skin	1.2E-02	--	1.1E-03	1.3E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-03	--	5.3E-06	1.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.9E-10	--	1.8E-10	7.7E-10	Dieldrin	Liver	5.2E-05	--	1.5E-05	6.7E-05
			VOCs					**VOCs**					
			Benzene	5.2E-09	--	1.6E-09	6.8E-09	Benzene	Blood	9.2E-04	--	2.8E-04	1.2E-03
			(Total)	8.3E-08	--	8.7E-09	9.2E-08	(Total)		1.5E-02	--	1.4E-03	1.6E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	7.6E-11	--	7.6E-11	Arsenic	Developmental	--	5.2E-05	--	5.2E-05
			Cadmium	--	4.7E-11	--	4.7E-11	Cadmium	Kidney	--	3.8E-05	--	3.8E-05
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	7.2E-14	--	7.2E-14	Dieldrin	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	1.4E-07	--	1.4E-07	Benzene	Blood	--	5.8E-03	--	5.8E-03
			(Total)	--	1.4E-07	--	1.4E-07	(Total)		--	5.9E-03	--	5.9E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.3E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.2E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-40	**EAPC No.:** 12

RME Exposure Scenario

TABLE 7.12.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	(Total)										5.3E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	(Total)										9.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.6E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	(Total)										5.3E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	(Total)										9.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.6E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	6.2E-06	mg/m^3	6.2E-06	mg/m^3	M	9.2E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.3E-05
	Xylenes	8.1E-06	mg/m^3	8.1E-06	mg/m^3	M	1.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.0E-06
												Total Hazard Index Across All Exposure Routes/Pathways	5.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	3.0E-04	mg/kg-day	6.0E-01
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	8.8E-05	mg/kg-day	1.0E-03	mg/kg-day	8.8E-02
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.3E-07	mg/kg-day	5.0E-05	mg/kg-day	2.6E-03
	(Total)										6.9E-01
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.0E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.6E-08	mg/kg-day	5.0E-05	mg/kg-day	7.2E-04
	(Total)										5.1E-02
										Total Hazard Index Across All Exposure Routes/Pathways	7.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.6E-03
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	6.6E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.2E-03
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	9.6E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	9.4E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.5E-04
	Xylenes	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	6.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.6E-09	mg/kg-day	5.0E-05	mg/kg-day	5.2E-05
	(Total)										1.4E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	5.3E-09	mg/kg-day	1.0E-03	mg/kg-day	5.3E-06
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	7.7E-10	mg/kg-day	5.0E-05	mg/kg-day	1.5E-05
	(Total)										1.1E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.12.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	5.2E-05
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	2.2E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.8E-05
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	3.2E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	9.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.12.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.3E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	(Total)										7.4E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.7E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	(Total)										1.5E-06
										Total Risk Across All Exposure Routes/Pathways	8.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	2.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.3E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	(Total)										7.4E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.7E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	(Total)										1.5E-06
										Total Risk Across All Exposure Routes/Pathways	8.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.1E-09
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	2.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	6.2E-06	mg/m^3	6.2E-06	mg/m^3	M	3.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.3E-08
	Xylenes	8.1E-06	mg/m^3	8.1E-06	mg/m^3	M	4.3E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.3E-05
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.6E-08	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.5E-07
	(Total)										3.3E-05
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	4.9E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	7.9E-08
	(Total)										3.2E-06
										Total Risk Across All Exposure Routes/Pathways	3.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.8E-08
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.3E-08
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	3.6E-11
										Total Risk Across All Exposure Routes/Pathways	6.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-07
	Xylenes	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	2.9E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.7E-08
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.7E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.9E-10
	(Total)										7.8E-08
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.6E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.0E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	7.6E-11	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.1E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	1.8E-10
	(Total)										7.2E-09
										Total Risk Across All Exposure Routes/Pathways	8.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.6E-11
	Cadmium	6.9E+00	mg/kg	1.4E-08	mg/m^3	R	3.1E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.7E-11
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	4.5E-15	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	7.2E-14
										Total Risk Across All Exposure Routes/Pathways	1.2E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.12.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-40
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	7.3E-06	--	1.5E-06	8.8E-06	Arsenic	Skin	4.6E-02	--	9.0E-03	5.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			(Total)	7.4E-06	--	1.5E-06	8.9E-06	(Total)		5.3E-02	--	9.2E-03	6.2E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.3E-08	--	1.3E-08	Arsenic	Developmental	--	3.6E-04	--	3.6E-04
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			(Total)	--	2.1E-08	--	2.1E-08	(Total)		--	6.3E-04	--	6.3E-04
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.3E-06	--	1.5E-06	8.8E-06	Arsenic	Skin	4.6E-02	--	9.0E-03	5.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			(Total)	7.4E-06	--	1.5E-06	8.9E-06	(Total)		5.3E-02	--	9.2E-03	6.2E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.3E-08	--	1.3E-08	Arsenic	Developmental	--	3.6E-04	--	3.6E-04
			Cadmium	--	8.1E-09	--	8.1E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			(Total)	--	2.1E-08	--	2.1E-08	(Total)		--	6.3E-04	--	6.3E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.3E-08	--	3.3E-08	Benzene	Blood	--	5.3E-05	--	5.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.0E-06	--	6.0E-06
			(Total)	--	3.3E-08	--	3.3E-08	(Total)		--	5.9E-05	--	5.9E-05

Total Risk Across Surface Soil =	8.9E-06	Total Hazard Index Across Surface Soil =	6.2E-02
Total Risk Across Shallow Soil (0-15' bgs) =	8.9E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.2E-02
Total Risk for Shallow Soil-to-Indoor Air =	3.3E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.9E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.12.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.3E-05	--	3.1E-06	3.6E-05	Arsenic	Skin	6.0E-01	--	5.0E-02	6.5E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	8.8E-02	--	2.5E-04	8.8E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	2.5E-07	--	7.9E-08	3.3E-07	Dieldrin	Liver	2.6E-03	--	7.2E-04	3.3E-03
			(Total)	3.3E-05	--	3.2E-06	3.6E-05	(Total)		6.9E-01	--	5.1E-02	7.4E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	3.8E-08	--	3.8E-08	Arsenic	Developmental	--	1.6E-03	--	1.6E-03
			Cadmium	--	2.3E-08	--	2.3E-08	Cadmium	Kidney	--	1.2E-03	--	1.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	3.6E-11	--	3.6E-11	Dieldrin	--	--	--	--	--
			(Total)	--	6.1E-08	--	6.1E-08	(Total)		--	2.7E-03	--	2.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.2E-07	--	2.2E-07	Benzene	Blood	--	5.5E-04	--	5.5E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.3E-05	--	6.3E-05
			(Total)	--	2.2E-07	--	2.2E-07	(Total)		--	6.1E-04	--	6.1E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.6E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.4E-01
Total Risk for Shallow Soil-to-Indoor Air =	2.2E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.12.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.7E-08	--	7.0E-09	8.4E-08	Arsenic	Skin	1.2E-02	--	1.1E-03	1.3E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-03	--	5.3E-06	1.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.9E-10	--	1.8E-10	7.7E-10	Dieldrin	Liver	5.2E-05	--	1.5E-05	6.7E-05
			(Total)	7.8E-08	--	7.2E-09	8.5E-08	(Total)		1.4E-02	--	1.1E-03	1.5E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	7.6E-11	--	7.6E-11	Arsenic	Developmental	--	5.2E-05	--	5.2E-05
			Cadmium	--	4.7E-11	--	4.7E-11	Cadmium	Kidney	--	3.8E-05	--	3.8E-05
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	7.2E-14	--	7.2E-14	Dieldrin	--	--	--	--	--
			(Total)	--	1.2E-10	--	1.2E-10	(Total)		--	9.0E-05	--	9.0E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.5E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.5E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-45	**EAPC No.:** 13

RME Exposure Scenario

TABLE 7.13.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	7.1E-06	mg/kg-day	1.0E-03	mg/kg-day	7.1E-03
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	6.1E-04	mg/kg-day	1.4E-01	mg/kg-day	4.3E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	(Total)										5.7E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	4.7E-08	mg/kg-day	1.0E-03	mg/kg-day	4.7E-05
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	4.0E-05	mg/kg-day	1.4E-01	mg/kg-day	2.9E-04
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	(Total)										9.5E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.6E-04
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.6E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.8E-04
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	1.4E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.4E-03
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.7E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	7.1E-06	mg/kg-day	1.0E-03	mg/kg-day	7.1E-03
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	6.1E-04	mg/kg-day	1.4E-01	mg/kg-day	4.3E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	9.8E-09	mg/kg-day	5.0E-05	mg/kg-day	2.0E-04
	(Total)										6.9E-02
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	3.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	4.7E-08	mg/kg-day	1.0E-03	mg/kg-day	4.7E-05
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	4.0E-05	mg/kg-day	1.4E-01	mg/kg-day	2.9E-04
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	6.5E-09	mg/kg-day	5.0E-05	mg/kg-day	1.3E-04
	(Total)										1.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	8.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.13.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.8E+01	mg/kg	2.6E-08	mg/m^3	R	3.9E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	4.5E-04
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.6E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.8E-04
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	1.4E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.4E-03
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.8E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.0E-04
	Benzene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	6.5E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.8E-05
	Tetrachloroethene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.6E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	2.2E-04	mg/kg-day	3.0E-04	mg/kg-day	7.5E-01
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	9.3E-05	mg/kg-day	1.0E-03	mg/kg-day	9.3E-02
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	7.9E-03	mg/kg-day	1.4E-01	mg/kg-day	5.7E-02
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.3E-07	mg/kg-day	5.0E-05	mg/kg-day	2.6E-03
	(Total)										9.0E-01
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	2.6E-07	mg/kg-day	1.0E-03	mg/kg-day	2.6E-04
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	2.2E-04	mg/kg-day	1.4E-01	mg/kg-day	1.6E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.6E-08	mg/kg-day	5.0E-05	mg/kg-day	7.2E-04
	(Total)										6.5E-02
										Total Hazard Index Across All Exposure Routes/Pathways	9.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.13.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.8E+01	mg/kg	2.6E-08	mg/m^3	R	1.7E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.0E-03
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	7.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.2E-03
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	6.0E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.0E-02
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	9.6E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	1.8E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-03
	Benzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	6.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-04
	Tetrachloroethene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	4.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	1.6E-04	mg/kg-day	1.4E-01	mg/kg-day	1.1E-03
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.6E-09	mg/kg-day	5.0E-05	mg/kg-day	5.2E-05
	(Total)										1.8E-02
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	5.7E-09	mg/kg-day	1.0E-03	mg/kg-day	5.7E-06
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	4.8E-06	mg/kg-day	1.4E-01	mg/kg-day	3.4E-05
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	7.7E-10	mg/kg-day	5.0E-05	mg/kg-day	1.5E-05
	(Total)										1.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.13.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.8E+01	mg/kg	3.5E-08	mg/m^3	R	5.5E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	6.5E-05
	Cadmium	7.3E+00	mg/kg	1.5E-08	mg/m^3	R	2.3E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.0E-05
	Manganese	6.2E+02	mg/kg	1.3E-06	mg/m^3	R	2.0E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.4E-04
	Pesticides/PCBs												
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	3.2E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	4.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.13.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.3E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	2.2E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	(Total)										7.4E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.7E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	(Total)										1.5E-06
										Total Risk Across All Exposure Routes/Pathways	8.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	5.7E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.6E-09
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	4.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	2.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	6.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.2E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	2.2E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.5E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.6E-08
	(Total)										9.2E-06
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.8E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	2.3E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.7E-08
	(Total)										1.9E-06
										Total Risk Across All Exposure Routes/Pathways	1.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	2.6E-08	mg/m^3	R	1.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	5.7E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.6E-09
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	4.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	7.9E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	2.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	6.3E-08	mg/kg-day	--	--	--
	Benzene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	2.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.3E-08
	Tetrachloroethene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	5.7E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-09
										Total Risk Across All Exposure Routes/Pathways	2.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	2.7E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	4.1E-05
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	9.7E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.6E-08	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.5E-07
	(Total)										4.1E-05
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	2.6E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.9E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	3.6E-08	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	3.1E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	4.9E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	7.9E-08
	(Total)										4.0E-06
										Total Risk Across All Exposure Routes/Pathways	4.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	2.6E-08	mg/m^3	R	3.9E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.7E-08
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.6E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.4E-08
	Manganese	6.2E+02	mg/kg	9.3E-07	mg/m^3	R	1.4E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.5E-11	mg/m^3	R	2.2E-12	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	3.6E-11
										Total Risk Across All Exposure Routes/Pathways	7.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	4.2E-07	mg/kg-day	--	--	--
	Benzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	1.6E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-07
	Tetrachloroethene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.8E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.9E-09
										Total Risk Across All Exposure Routes/Pathways	1.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	6.5E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	9.7E-08
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	2.7E-08	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	2.3E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	3.7E-11	mg/kg-day	1.6E+01	mg/kg-day^{-1}	5.9E-10
	(Total)										9.7E-08
Dermal	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	1.8E+01	mg/kg	M	5.8E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	8.7E-09
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	8.1E-11	mg/kg-day	--	--	--
	Manganese	6.2E+02	mg/kg	6.2E+02	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	1.0E-02	mg/kg	M	1.1E-11	mg/kg-day	1.6E+01	mg/kg-day^{-1}	1.8E-10
	(Total)										8.9E-09
										Total Risk Across All Exposure Routes/Pathways	1.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.8E+01	mg/kg	3.5E-08	mg/m^3	R	7.9E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.5E-11
	Cadmium	7.3E+00	mg/kg	1.5E-08	mg/m^3	R	3.3E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.0E-11
	Manganese	6.2E+02	mg/kg	1.3E-06	mg/m^3	R	2.8E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	1.0E-02	mg/kg	2.0E-11	mg/m^3	R	4.5E-15	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	7.2E-14
										Total Risk Across All Exposure Routes/Pathways	1.4E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.13.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-45
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	7.3E-06	--	1.5E-06	8.8E-06	Arsenic	Skin	4.6E-02	--	9.0E-03	5.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	7.1E-03	--	4.7E-05	7.2E-03
			Manganese	--	--	--	--	Manganese	CNS	4.3E-03	--	2.9E-04	4.6E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			(Total)	7.4E-06	--	1.5E-06	8.9E-06	(Total)		5.7E-02	--	9.5E-03	6.7E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.3E-08	--	1.3E-08	Arsenic	Developmental	--	3.6E-04	--	3.6E-04
			Cadmium	--	8.6E-09	--	8.6E-09	Cadmium	Kidney	--	2.8E-04	--	2.8E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.4E-03	--	2.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			(Total)	--	2.2E-08	--	2.2E-08	(Total)		--	3.0E-03	--	3.0E-03
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	9.2E-06	--	1.8E-06	1.1E-05	Arsenic	Skin	5.7E-02	--	1.1E-02	6.8E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	7.1E-03	--	4.7E-05	7.2E-03
			Manganese	--	--	--	--	Manganese	CNS	4.3E-03	--	2.9E-04	4.6E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.6E-08	--	3.7E-08	9.3E-08	Dieldrin	Liver	2.0E-04	--	1.3E-04	3.2E-04
			(Total)	9.2E-06	--	1.9E-06	1.1E-05	(Total)		6.9E-02	--	1.2E-02	8.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.7E-08	--	1.7E-08	Arsenic	Developmental	--	4.5E-04	--	4.5E-04
			Cadmium	--	8.6E-09	--	8.6E-09	Cadmium	Kidney	--	2.8E-04	--	2.8E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.4E-03	--	2.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.3E-11	--	1.3E-11	Dieldrin	--	--	--	--	--
			(Total)	--	2.5E-08	--	2.5E-08	(Total)		--	3.1E-03	--	3.1E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.0E-04	--	1.0E-04
			Benzene	--	2.3E-08	--	2.3E-08	Benzene	Blood	--	3.8E-05	--	3.8E-05
			Tetrachloroethene	--	1.2E-09	--	1.2E-09	Tetrachloroethene	Liver/Kidney	--	1.6E-05	--	1.6E-05
			(Total)	--	2.5E-08	--	2.5E-08	(Total)		--	1.6E-04	--	1.6E-04

Total Risk Across Surface Soil =	8.9E-06	Total Hazard Index Across Surface Soil =	7.0E-02
Total Risk Across Shallow Soil (0-15' bgs) =	1.1E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	8.4E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.5E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.6E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.13.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	4.1E-05	--	3.9E-06	4.5E-05	Arsenic	Skin	7.5E-01	--	6.3E-02	8.1E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	9.3E-02	--	2.6E-04	9.4E-02
			Manganese	--	--	--	--	Manganese	CNS	5.7E-02	--	1.6E-03	5.8E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	2.5E-07	--	7.9E-08	3.3E-07	Dieldrin	Liver	2.6E-03	--	7.2E-04	3.3E-03
			(Total)	4.1E-05	--	4.0E-06	4.5E-05	(Total)		9.0E-01	--	6.5E-02	9.6E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	4.7E-08	--	4.7E-08	Arsenic	Developmental	--	2.0E-03	--	2.0E-03
			Cadmium	--	2.4E-08	--	2.4E-08	Cadmium	Kidney	--	1.2E-03	--	1.2E-03
			Manganese	--	--	--	--	Manganese	CNS	--	1.0E-02	--	1.0E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	3.6E-11	--	3.6E-11	Dieldrin	--	--	--	--	--
			(Total)	--	7.1E-08	--	7.1E-08	(Total)		--	1.4E-02	--	1.4E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.1E-03	--	1.1E-03
			Benzene	--	1.6E-07	--	1.6E-07	Benzene	Blood	--	3.9E-04	--	3.9E-04
			Tetrachloroethene	--	7.9E-09	--	7.9E-09	Tetrachloroethene	Liver/Kidney	--	1.6E-04	--	1.6E-04
			(Total)	--	1.6E-07	--	1.6E-07	(Total)		--	1.6E-03	--	1.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.5E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	9.8E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.13.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	9.7E-08	--	8.7E-09	1.1E-07	Arsenic	Skin	1.5E-02	--	1.4E-03	1.6E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	1.9E-03	--	5.7E-06	1.9E-03
			Manganese	--	--	--	--	Manganese	CNS	1.1E-03	--	3.4E-05	1.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.9E-10	--	1.8E-10	7.7E-10	Dieldrin	Liver	5.2E-05	--	1.5E-05	6.7E-05
			(Total)	9.7E-08	--	8.9E-09	1.1E-07	(Total)		1.8E-02	--	1.4E-03	2.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	9.5E-11	--	9.5E-11	Arsenic	Developmental	--	6.5E-05	--	6.5E-05
			Cadmium	--	5.0E-11	--	5.0E-11	Cadmium	Kidney	--	4.0E-05	--	4.0E-05
			Manganese	--	--	--	--	Manganese	CNS	--	3.4E-04	--	3.4E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	7.2E-14	--	7.2E-14	Dieldrin	--	--	--	--	--
			(Total)	--	1.4E-10	--	1.4E-10	(Total)		--	4.5E-04	--	4.5E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.0E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-9	**EAPC No.:** 14

RME Exposure Scenario

TABLE 7.14.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Copper	3.6E+04	mg/kg	3.6E+04	mg/kg	M	3.5E-02	mg/kg-day	4.0E-02	mg/kg-day	8.7E-01
	Thallium	5.2E+00	mg/kg	5.2E+00	mg/kg	M	5.1E-06	mg/kg-day	8.0E-05	mg/kg-day	6.4E-02
	Vanadium	6.2E+01	mg/kg	6.2E+01	mg/kg	M	6.1E-05	mg/kg-day	7.0E-03	mg/kg-day	8.7E-03
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	6.9E-09	mg/kg-day	--	--	--
	(Total)										9.5E-01
Dermal	**Inorganics**										
	Copper	3.6E+04	mg/kg	3.6E+04	mg/kg	M	2.3E-03	mg/kg-day	4.0E-02	mg/kg-day	5.8E-02
	Thallium	5.2E+00	mg/kg	5.2E+00	mg/kg	M	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
	Vanadium	6.2E+01	mg/kg	6.2E+01	mg/kg	M	4.0E-06	mg/kg-day	7.0E-03	mg/kg-day	5.7E-04
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	6.0E-09	mg/kg-day	--	--	--
	(Total)										6.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.14.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Copper	3.6E+04	mg/kg	5.4E-05	mg/m^3	R	7.9E-06	mg/kg-day	--	--	--	--	--
	Thallium	5.2E+00	mg/kg	7.8E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	Vanadium	6.2E+01	mg/kg	9.3E-08	mg/m^3	R	1.4E-08	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	7.1E-03	mg/kg	1.1E-11	mg/m^3	R	1.6E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.4E-06	mg/m^3	5.4E-06	mg/m^3	M	7.9E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.6E-04
	1,3,5-Trimethylbenzene	1.0E-07	mg/m^3	1.0E-07	mg/m^3	M	1.5E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.9E-06
	Acetonitrile	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	2.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-03
	Benzene	5.3E-06	mg/m^3	5.3E-06	mg/m^3	M	7.8E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.6E-05
	Chloroform	4.5E-07	mg/m^3	4.5E-07	mg/m^3	M	6.6E-08	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.7E-07
	Chloromethane	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	3.9E-07	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	1.5E-05
	Methylene Chloride	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	3.5E-08	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.0E-07
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	2.7E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.7E-05
	Trichloroethene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	6.4E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.7E-05
	Xylenes	8.1E-06	mg/m^3	8.1E-06	mg/m^3	M	1.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.9E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	5.2E-01	mg/kg-day	4.0E-02	mg/kg-day	1.3E+01
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	8.1E-05	mg/kg-day	8.0E-05	mg/kg-day	1.0E+00
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	9.6E-04	mg/kg-day	7.0E-03	mg/kg-day	1.4E-01
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	9.1E-08	mg/kg-day	--	--	--
	(Total)										1.4E+01
Dermal	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	1.5E-02	mg/kg-day	4.0E-02	mg/kg-day	3.6E-01
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.8E-02
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	2.7E-05	mg/kg-day	7.0E-03	mg/kg-day	3.8E-03
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	3.3E-08	mg/kg-day	--	--	--
	(Total)										4.0E-01
										Total Hazard Index Across All Exposure Routes/Pathways	1.5E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.14.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Copper	4.1E+04	mg/kg	6.1E-05	mg/m^3	R	3.9E-05	mg/kg-day	--	--	--	--	--
	Thallium	6.3E+00	mg/kg	9.5E-09	mg/m^3	R	6.0E-09	mg/kg-day	--	--	--	--	--
	Vanadium	7.5E+01	mg/kg	1.1E-07	mg/m^3	R	7.2E-08	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	7.1E-03	mg/kg	1.1E-11	mg/m^3	R	6.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	8.1E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.7E-03
	1,3,5-Trimethylbenzene	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	1.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.1E-05
	Acetonitrile	4.0E-04	mg/m^3	4.0E-04	mg/m^3	M	2.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-02
	Benzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	8.0E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.7E-04
	Chloroform	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	6.8E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.9E-06
	Chloromethane	6.2E-06	mg/m^3	6.2E-06	mg/m^3	M	4.0E-06	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	1.5E-04
	Methylene Chloride	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	3.6E-07	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.1E-06
	Tetrachloroethene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	2.7E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.7E-04
	Trichloroethene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	6.5E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.8E-04
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.6E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	1.1E-02	mg/kg-day	4.0E-02	mg/kg-day	2.6E-01
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	1.6E-06	mg/kg-day	8.0E-05	mg/kg-day	2.0E-02
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	1.9E-05	mg/kg-day	7.0E-03	mg/kg-day	2.8E-03
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.8E-09	mg/kg-day	--	--	--
	(Total)										2.9E-01
Dermal	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	3.2E-04	mg/kg-day	4.0E-02	mg/kg-day	7.9E-03
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	4.9E-08	mg/kg-day	8.0E-05	mg/kg-day	6.1E-04
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	5.8E-07	mg/kg-day	7.0E-03	mg/kg-day	8.3E-05
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	7.2E-10	mg/kg-day	--	--	--
	(Total)										8.6E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.14.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Copper	4.1E+04	mg/kg	8.2E-05	mg/m^3	R	1.3E-06	mg/kg-day	--	--	--	--	--
	Thallium	6.3E+00	mg/kg	1.3E-08	mg/m^3	R	2.0E-10	mg/kg-day	--	--	--	--	--
	Vanadium	7.5E+01	mg/kg	1.5E-07	mg/m^3	R	2.4E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	7.1E-03	mg/kg	1.4E-11	mg/m^3	R	2.2E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.14.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Copper	3.6E+04	mg/kg	3.6E+04	mg/kg	M	1.2E-02	mg/kg-day	--	--	--
	Thallium	5.2E+00	mg/kg	5.2E+00	mg/kg	M	1.8E-06	mg/kg-day	--	--	--
	Vanadium	6.2E+01	mg/kg	6.2E+01	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	2.5E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.0E-08
	(Total)										3.0E-08
Dermal	**Inorganics**										
	Copper	3.6E+04	mg/kg	3.6E+04	mg/kg	M	8.2E-04	mg/kg-day	--	--	--
	Thallium	5.2E+00	mg/kg	5.2E+00	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Vanadium	6.2E+01	mg/kg	6.2E+01	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	2.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.6E-08
	(Total)										2.6E-08
										Total Risk Across All Exposure Routes/Pathways	5.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Copper	3.6E+04	mg/kg	5.4E-05	mg/m^3	R	2.8E-06	mg/kg-day	--	--	--
	Thallium	5.2E+00	mg/kg	7.8E-09	mg/m^3	R	4.1E-10	mg/kg-day	--	--	--
	Vanadium	6.2E+01	mg/kg	9.3E-08	mg/m^3	R	4.9E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	1.1E-11	mg/m^3	R	5.6E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.2E-12
										Total Risk Across All Exposure Routes/Pathways	2.2E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.4E-06	mg/m^3	5.4E-06	mg/m^3	M	2.8E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.0E-07	mg/m^3	1.0E-07	mg/m^3	M	5.4E-09	mg/kg-day	--	--	--
	Acetonitrile	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	8.9E-06	mg/kg-day	--	--	--
	Benzene	5.3E-06	mg/m^3	5.3E-06	mg/m^3	M	2.8E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Chloroform	4.5E-07	mg/m^3	4.5E-07	mg/m^3	M	2.4E-08	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.5E-10
	Chloromethane	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	1.4E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	8.8E-10
	Methylene Chloride	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	1.2E-08	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	4.3E-11
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	9.5E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.0E-09
	Trichloroethene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	2.3E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.6E-08
	Xylenes	8.1E-06	mg/m^3	8.1E-06	mg/m^3	M	4.2E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	6.4E-02	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	9.9E-06	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	1.2E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.1E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-07
	(Total)										1.3E-07
Dermal	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	2.0E-03	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	4.6E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.5E-08
	(Total)										5.5E-08
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Copper	4.1E+04	mg/kg	6.1E-05	mg/m^3	R	9.1E-06	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	9.5E-09	mg/m^3	R	1.4E-09	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	1.1E-07	mg/m^3	R	1.7E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	1.1E-11	mg/m^3	R	1.6E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	6.2E-12
										Total Risk Across All Exposure Routes/Pathways	6.2E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	3.6E-08	mg/kg-day	--	--	--
	Acetonitrile	4.0E-04	mg/m^3	4.0E-04	mg/m^3	M	5.9E-05	mg/kg-day	--	--	--
	Benzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	1.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-07
	Chloroform	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.0E-09
	Chloromethane	6.2E-06	mg/m^3	6.2E-06	mg/m^3	M	9.3E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	5.8E-09
	Methylene Chloride	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	8.3E-08	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.9E-10
	Tetrachloroethene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	6.3E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.3E-08
	Trichloroethene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.5E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-07
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.7E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	1.5E-04	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	2.3E-08	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	2.6E-11	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	3.1E-10
	(Total)										3.1E-10
Dermal	**Inorganics**										
	Copper	4.1E+04	mg/kg	4.1E+04	mg/kg	M	4.5E-06	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	6.3E+00	mg/kg	M	7.0E-10	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	7.5E+01	mg/kg	M	8.3E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.0E-11	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	1.2E-10
	(Total)										1.2E-10
										Total Risk Across All Exposure Routes/Pathways	4.4E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Copper	4.1E+04	mg/kg	8.2E-05	mg/m^3	R	1.8E-08	mg/kg-day	--	--	--
	Thallium	6.3E+00	mg/kg	1.3E-08	mg/m^3	R	2.9E-12	mg/kg-day	--	--	--
	Vanadium	7.5E+01	mg/kg	1.5E-07	mg/m^3	R	3.4E-11	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.1E-03	mg/kg	1.4E-11	mg/m^3	R	3.2E-15	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.3E-14
										Total Risk Across All Exposure Routes/Pathways	1.3E-14

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.14.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-9
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	GI	8.7E-01	--	5.8E-02	9.3E-01
			Thallium	--	--	--	--	Thallium	NOAEL	6.4E-02	--	4.2E-03	6.8E-02
			Vanadium	--	--	--	--	Vanadium	Liver	8.7E-03	--	5.7E-04	9.3E-03
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	3.0E-08	--	2.6E-08	5.5E-08	Benzo(a)pyrene	--	--	--	--	--
			(Total)	3.0E-08	--	2.6E-08	5.5E-08	(Total)		9.5E-01	--	6.2E-02	1.0E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	2.2E-12	--	2.2E-12	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	2.2E-12	--	2.2E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.6E-04	--	4.6E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	8.9E-06	--	8.9E-06
			Acetonitrile	--	--	--	--	Acetonitrile	Mortality	--	1.4E-03	--	1.4E-03
			Benzene	--	2.8E-08	--	2.8E-08	Benzene	Blood	--	4.6E-05	--	4.6E-05
			Chloroform	--	4.5E-10	--	4.5E-10	Chloroform	Kidney	--	7.7E-07	--	7.7E-07
			Chloromethane	--	8.8E-10	--	8.8E-10	Chloromethane	CNS	--	1.5E-05	--	1.5E-05
			Methylene Chloride	--	4.3E-11	--	4.3E-11	Methylene Chloride	Liver	--	3.0E-07	--	3.0E-07
			Tetrachloroethene	--	2.0E-09	--	2.0E-09	Tetrachloroethene	Liver/Kidney	--	2.7E-05	--	2.7E-05
			Trichloroethene	--	1.6E-08	--	1.6E-08	Trichloroethene	CNS	--	3.7E-05	--	3.7E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.9E-06	--	5.9E-06
			(Total)	--	4.7E-08	--	4.7E-08	(Total)		--	2.1E-03	--	2.1E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.5E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.0E+00
Total Risk for Shallow Soil-to-Indoor Air =	4.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.1E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.14.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	GI	1.3E+01	--	3.6E-01	1.3E+01
			Thallium	--	--	--	--	Thallium	NOAEL	1.0E+00	--	2.8E-02	1.0E+00
			Vanadium	--	--	--	--	Vanadium	Liver	1.4E-01	--	3.8E-03	1.4E-01
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	1.3E-07	--	5.5E-08	1.9E-07	Benzo(a)pyrene	--	--	--	--	--
			(Total)	1.3E-07	--	5.5E-08	1.9E-07	(Total)		1.4E+01	--	4.0E-01	1.5E+01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	6.2E-12	--	6.2E-12	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	6.2E-12	--	6.2E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.7E-03	--	4.7E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	9.1E-05	--	9.1E-05
			Acetonitrile	--	--	--	--	Acetonitrile	Mortality	--	1.5E-02	--	1.5E-02
			Benzene	--	1.9E-07	--	1.9E-07	Benzene	Blood	--	4.7E-04	--	4.7E-04
			Chloroform	--	3.0E-09	--	3.0E-09	Chloroform	Kidney	--	7.9E-06	--	7.9E-06
			Chloromethane	--	5.8E-09	--	5.8E-09	Chloromethane	CNS	--	1.5E-04	--	1.5E-04
			Methylene Chloride	--	2.9E-10	--	2.9E-10	Methylene Chloride	Liver	--	3.1E-06	--	3.1E-06
			Tetrachloroethene	--	1.3E-08	--	1.3E-08	Tetrachloroethene	Liver/Kidney	--	2.7E-04	--	2.7E-04
			Trichloroethene	--	1.1E-07	--	1.1E-07	Trichloroethene	CNS	--	3.8E-04	--	3.8E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.9E-05	--	7.9E-05
			(Total)	--	3.1E-07	--	3.1E-07	(Total)		--	2.1E-02	--	2.1E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.9E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.5E+01
Total Risk for Shallow Soil-to-Indoor Air =	3.1E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.1E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.14.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	GI	2.6E-01	--	7.9E-03	2.7E-01
			Thallium	--	--	--	--	Thallium	NOAEL	2.0E-02	--	6.1E-04	2.1E-02
			Vanadium	--	--	--	--	Vanadium	Liver	2.8E-03	--	8.3E-05	2.8E-03
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	3.1E-10	--	1.2E-10	4.4E-10	Benzo(a)pyrene	--	--	--	--	--
			(Total)	3.1E-10	--	1.2E-10	4.4E-10	(Total)		2.9E-01	--	8.6E-03	2.9E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	1.3E-14	--	1.3E-14	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	1.3E-14	--	1.3E-14	(Total)		--	--	--	--

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.4E-10	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.9E-01
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-900	**EAPC No.:** 15

RME Exposure Scenario

TABLE 7.15.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	3.4E-06	mg/kg-day	4.0E-03	mg/kg-day	8.6E-04
	(Total)										8.6E-04
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.3E-06	mg/kg-day	4.0E-03	mg/kg-day	5.7E-04
	(Total)										5.7E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.15.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.5E+00	mg/kg	6.5E-04	mg/m^3	R	9.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.15.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	6.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.7E-01
	Ethylbenzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	3.6E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.3E-06
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	3.3E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.3E-05
	Toluene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	3.4E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	2.5E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E+01
	Toluene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	4.5E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.3E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	4.5E-05	mg/kg-day	4.0E-03	mg/kg-day	1.1E-02
	(Total)										1.1E-02
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	1.3E-05	mg/kg-day	4.0E-03	mg/kg-day	3.1E-03
	(Total)										3.1E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.5E+00	mg/kg	5.9E-04	mg/m^3	R	3.8E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	6.4E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.8E+00
	Ethylbenzene	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	3.7E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.4E-05
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	3.4E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.3E-04
	Toluene	5.4E-05	mg/m^3	5.4E-05	mg/m^3	M	3.4E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.8E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E+01	mg/m^3	1.1E+01	mg/m^3	M	7.3E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E+02
	Toluene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.9E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	4.3E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	9.0E-07	mg/kg-day	4.0E-03	mg/kg-day	2.3E-04
	(Total)										2.3E-04
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.7E-07	mg/kg-day	4.0E-03	mg/kg-day	6.8E-05
	(Total)										6.8E-05
										Total Hazard Index Across All Exposure Routes/Pathways	2.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.15.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.5E+00	mg/kg	1.6E-03	mg/m^3	R	2.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.15.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	1.2E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.2E-07
	(Total)										1.2E-07
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	8.1E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	8.1E-08
	(Total)										8.1E-08
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.5E+00	mg/kg	6.5E-04	mg/m^3	R	3.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.4E-06
										Total Risk Across All Exposure Routes/Pathways	3.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.3E-04
	Ethylbenzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	1.2E-08	mg/kg-day	--	--	--
	Toluene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	1.2E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	9.0E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.0E-03
	Toluene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	5.5E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	5.5E-07
	(Total)										5.5E-07
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	1.7E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.7E-07
	(Total)										1.7E-07
										Total Risk Across All Exposure Routes/Pathways	7.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.5E+00	mg/kg	5.9E-04	mg/m^3	R	8.8E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.8E-06
										Total Risk Across All Exposure Routes/Pathways	8.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-03
	Ethylbenzene	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	8.5E-06	mg/kg-day	--	--	--
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	7.8E-08	mg/kg-day	--	--	--
	Toluene	5.4E-05	mg/m^3	5.4E-05	mg/m^3	M	8.0E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E+01	mg/m^3	1.1E+01	mg/m^3	M	1.7E+00	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-01
	Toluene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	4.4E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	1.3E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.3E-09
	(Total)										1.3E-09
Dermal	**VOCs**										
	Benzene	3.5E+00	mg/kg	3.5E+00	mg/kg	M	3.9E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	3.9E-10
	(Total)										3.9E-10
										Total Risk Across All Exposure Routes/Pathways	1.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.5E+00	mg/kg	1.6E-03	mg/m^3	R	3.5E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.5E-08
										Total Risk Across All Exposure Routes/Pathways	3.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.15.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.2E-07	--	8.1E-08	2.0E-07	Benzene	Blood	8.6E-04	--	5.7E-04	1.4E-03
			(Total)	1.2E-07	--	8.1E-08	2.0E-07	(Total)		8.6E-04	--	5.7E-04	1.4E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	3.4E-06	--	3.4E-06	Benzene	Blood	--	5.6E-03	--	5.6E-03
			(Total)	--	3.4E-06	--	3.4E-06	(Total)		--	5.6E-03	--	5.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.3E-04	--	2.3E-04	Benzene	Blood	--	3.7E-01	--	3.7E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.3E-06	--	6.3E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.3E-05	--	1.3E-05
			Toluene	--	--	--	--	Toluene	CNS	--	3.9E-05	--	3.9E-05
			(Total)	--	2.3E-04	--	2.3E-04	(Total)		--	3.7E-01	--	3.7E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	9.0E-03	--	9.0E-03	Benzene	Blood	--	1.5E+01	--	1.5E+01
			Toluene	--	--	--	--	Toluene	CNS	--	5.3E-03	--	5.3E-03
			(Total)	--	9.0E-03	--	9.0E-03	(Total)		--	1.5E+01	--	1.5E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.6E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.0E-03
Total Risk for Shallow Soil-to-Indoor Air =	2.3E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.7E-01
Total Risk for Deep Soil-to-Indoor Air =	9.0E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	1.5E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.15.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	5.5E-07	--	1.7E-07	7.2E-07	Benzene	Blood	1.1E-02	--	3.1E-03	1.4E-02
			(Total)	5.5E-07	--	1.7E-07	7.2E-07	(Total)		1.1E-02	--	3.1E-03	1.4E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	8.8E-06	--	8.8E-06	Benzene	Blood	--	2.2E-02	--	2.2E-02
			(Total)	--	8.8E-06	--	8.8E-06	(Total)		--	2.2E-02	--	2.2E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.5E-03	--	1.5E-03	Benzene	Blood	--	3.8E+00	--	3.8E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.4E-05	--	6.4E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.3E-04	--	1.3E-04
			Toluene	--	--	--	--	Toluene	CNS	--	4.0E-04	--	4.0E-04
			(Total)	--	1.5E-03	--	1.5E-03	(Total)		--	3.8E+00	--	3.8E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.7E-01	--	1.7E-01	Benzene	Blood	--	4.3E+02	--	4.3E+02
			Toluene	--	--	--	--	Toluene	CNS	--	2.2E-01	--	2.2E-01
			(Total)	--	1.7E-01	--	1.7E-01	(Total)		--	4.3E+02	--	4.3E+02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.5E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.6E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.5E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.8E+00
Total Risk for Deep Soil-to-Indoor Air =	1.7E-01	Total Hazard Index for Deep Soil-to-Indoor Air =	4.3E+02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.15.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.3E-09	--	3.9E-10	1.7E-09	Benzene	Blood	2.3E-04	--	6.8E-05	2.9E-04
			(Total)	1.3E-09	--	3.9E-10	1.7E-09	(Total)		2.3E-04	--	6.8E-05	2.9E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	3.5E-08	--	3.5E-08	Benzene	Blood	--	1.4E-03	--	1.4E-03
			(Total)	--	3.5E-08	--	3.5E-08	(Total)		--	1.4E-03	--	1.4E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-15, -50, -56	**EAPC No.:** 16

RME Exposure Scenario

TABLE 7.16.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	5.5E-04	mg/kg-day	1.4E-01	mg/kg-day	3.9E-03
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	4,4'-DDE	9.1E-02	mg/kg	9.1E-02	mg/kg	M	8.9E-08	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	7.2E-06	mg/kg-day	5.0E-04	mg/kg-day	1.4E-02
	Aroclor 1260	6.7E-02	mg/kg	6.7E-02	mg/kg	M	6.6E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.4E+00	mg/kg	7.4E+00	mg/kg	M	7.3E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	2.7E-04	mg/kg-day	2.0E-02	mg/kg-day	1.4E-02
	VOCs										
	Benzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.1E-05	mg/kg-day	4.0E-03	mg/kg-day	2.7E-03
	Ethylbenzene	7.0E+02	mg/kg	7.0E+02	mg/kg	M	6.9E-04	mg/kg-day	1.0E-01	mg/kg-day	6.9E-03
	Styrene	7.9E+02	mg/kg	7.9E+02	mg/kg	M	7.7E-04	mg/kg-day	2.0E-01	mg/kg-day	3.8E-03
	Tetrachloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	1.1E-03
	Trichloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	1.1E-05	mg/kg-day	6.0E-03	mg/kg-day	1.8E-03
	(Total)										6.2E-02

TABLE 7.16.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.0E-08	mg/kg-day	1.0E-03	mg/kg-day	9.0E-05
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.6E-04
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	4,4'-DDE	9.1E-02	mg/kg	9.1E-02	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.4E-06	mg/kg-day	5.0E-04	mg/kg-day	2.9E-03
	Aroclor 1260	6.7E-02	mg/kg	6.7E-02	mg/kg	M	6.1E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	7.4E+00	mg/kg	7.4E+00	mg/kg	M	6.2E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	1.8E-04	mg/kg-day	2.0E-02	mg/kg-day	9.0E-03
	VOCs										
	Benzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	7.2E-06	mg/kg-day	4.0E-03	mg/kg-day	1.8E-03
	Ethylbenzene	7.0E+02	mg/kg	7.0E+02	mg/kg	M	4.5E-04	mg/kg-day	1.0E-01	mg/kg-day	4.5E-03
	Styrene	7.9E+02	mg/kg	7.9E+02	mg/kg	M	5.1E-04	mg/kg-day	2.0E-01	mg/kg-day	2.5E-03
	Tetrachloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	7.2E-06	mg/kg-day	1.0E-02	mg/kg-day	7.2E-04
	Trichloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	7.3E-06	mg/kg-day	6.0E-03	mg/kg-day	1.2E-03
	(Total)										2.3E-02
										Total Hazard Index Across All Exposure Routes/Pathways	8.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	5.4E-04
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.2E-03
	Pesticides/PCBs												
	4,4'-DDD	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.6E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	9.1E-02	mg/kg	1.4E-10	mg/m^3	R	2.0E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	1.6E-09	mg/kg-day	--	--	--	--	--
	Aroclor 1260	6.7E-02	mg/kg	1.0E-10	mg/m^3	R	1.5E-11	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	1.6E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	3.2E-09	mg/kg-day	--	--	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	4.2E-07	mg/m^3	R	6.2E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.1E+01	mg/kg	2.1E-03	mg/m^3	R	3.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-02
	Ethylbenzene	7.0E+02	mg/kg	6.7E-02	mg/m^3	R	9.9E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-02
	Styrene	7.9E+02	mg/kg	3.0E-02	mg/m^3	R	4.4E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.7E-02
	Tetrachloroethene	1.1E+01	mg/kg	2.3E-03	mg/m^3	R	3.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-02
	Trichloroethene	1.1E+01	mg/kg	1.8E-03	mg/m^3	R	2.6E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-01
	1,3,5-Trimethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.4E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.4E-02
	4-Ethyl Toluene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.8E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-03
	Acetone	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	5.2E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	5.7E-02
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	2.0E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E+00
	Chloroform	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	2.9E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E-01
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	1.8E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-01
	Naphthalene	4.0E-06	mg/m^3	4.0E-06	mg/m^3	M	5.9E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-04
	Styrene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	5.7E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.2E-01
	Tetrachloroethene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.4E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.4E+00
	Toluene	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	9.5E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-01
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.6E-02
	Xylenes	9.2E-02	mg/m^3	9.2E-02	mg/m^3	M	1.3E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.9E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.5E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.3E-04
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.7E-04	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	8.6E-03
	Benzene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	5.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E-01
	Ethylbenzene	8.0E-04	mg/m^3	8.0E-04	mg/m^3	M	1.2E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.1E-04
	Tetrachloroethene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	4.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.5E-03
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.4E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	8.3E-03
	Benzene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	8.4E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.9E-02
	Chlorobenzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.3E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.1E-03
	Cyclohexane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.2E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.9E-03
	Ethylbenzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	1.2E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E-03
	Methyl ethyl ketone	7.1E-03	mg/m^3	7.1E-03	mg/m^3	M	1.0E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	7.3E-04
	Methylene Chloride	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.4E-02
	Styrene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	1.4E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	5.3E-03
	Tetrachloroethene	6.2E-03	mg/m^3	6.2E-03	mg/m^3	M	9.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	9.1E-02
	Toluene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	5.3E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.1E-02
	Trichloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	4.8E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.8E-02
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	5.4E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	1.0E-03	mg/kg-day	1.8E-01
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	7.2E-03	mg/kg-day	1.4E-01	mg/kg-day	5.1E-02
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.5E-05	mg/kg-day	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.5E-05	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	9.5E-05	mg/kg-day	5.0E-04	mg/kg-day	1.9E-01
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	2.6E-04	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	5.1E-04	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	3.6E-03	mg/kg-day	2.0E-02	mg/kg-day	1.8E-01
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.6E-03	mg/kg-day	4.0E-03	mg/kg-day	6.4E-01
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.5E-01	mg/kg-day	1.0E-01	mg/kg-day	1.5E+00
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	1.9E-01	mg/kg-day	2.0E-01	mg/kg-day	9.6E-01
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.6E-03	mg/kg-day	1.0E-02	mg/kg-day	2.6E-01
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.6E-03	mg/kg-day	6.0E-03	mg/kg-day	4.3E-01
	(Total)										4.4E+00

TABLE 7.16.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.0E-07	mg/kg-day	1.0E-03	mg/kg-day	5.0E-04
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	7.9E-06	mg/kg-day	5.0E-04	mg/kg-day	1.6E-02
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	5.0E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	9.3E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	1.0E-03	mg/kg-day	2.0E-02	mg/kg-day	5.0E-02
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.2E-04	mg/kg-day	4.0E-03	mg/kg-day	1.8E-01
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	4.3E-02	mg/kg-day	1.0E-01	mg/kg-day	4.3E-01
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	5.4E-02	mg/kg-day	2.0E-01	mg/kg-day	2.7E-01
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.2E-04	mg/kg-day	1.0E-02	mg/kg-day	7.2E-02
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.2E-04	mg/kg-day	6.0E-03	mg/kg-day	1.2E-01
	(Total)										1.1E+00
										Total Hazard Index Across All Exposure Routes/Pathways	5.5E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.4E-03
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	5.4E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	9.4E-03
	Pesticides/PCBs												
	4,4'-DDD	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	7.1E-09	mg/kg-day	--	--	--	--	--
	Aroclor 1260	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	9.6E-11	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	2.0E+01	mg/kg	3.0E-08	mg/m^3	R	1.9E-08	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	6.0E-08	mg/m^3	R	3.8E-08	mg/kg-day	--	--	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	4.2E-07	mg/m^3	R	2.7E-07	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	2.0E+02	mg/kg	3.4E-02	mg/m^3	R	2.2E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E+00
	Ethylbenzene	1.2E+04	mg/kg	1.0E+00	mg/m^3	R	6.7E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.2E+00
	Styrene	1.5E+04	mg/kg	5.2E-01	mg/m^3	R	3.3E-01	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.3E+00
	Tetrachloroethene	2.0E+02	mg/kg	3.7E-02	mg/m^3	R	2.4E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.4E+00
	Trichloroethene	2.0E+02	mg/kg	2.9E-02	mg/m^3	R	1.8E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.1E-01
												Total Hazard Index Across All Exposure Routes/Pathways	6.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.4E+00
	1,3,5-Trimethylbenzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.4E-01
	4-Ethyl Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.2E-02
	Acetone	6.4E+00	mg/m^3	6.4E+00	mg/m^3	M	4.1E+00	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	4.5E+00
	Benzene	5.8E+00	mg/m^3	5.8E+00	mg/m^3	M	3.7E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E+02
	Chloroform	5.9E+00	mg/m^3	5.9E+00	mg/m^3	M	3.8E+00	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.4E+01
	Ethylbenzene	2.8E+00	mg/m^3	2.8E+00	mg/m^3	M	1.8E+00	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.2E+00
	Naphthalene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	2.8E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-02
	Styrene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	1.1E+00	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	4.3E+00
	Tetrachloroethene	6.8E+00	mg/m^3	6.8E+00	mg/m^3	M	4.4E+00	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.4E+02
	Toluene	2.7E+00	mg/m^3	2.7E+00	mg/m^3	M	1.7E+00	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.0E+01
	Trichloroethene	4.2E+00	mg/m^3	4.2E+00	mg/m^3	M	2.7E+00	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E+01
	Xylenes	1.3E+00	mg/m^3	1.3E+00	mg/m^3	M	8.5E-01	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.3E+00
												Total Hazard Index Across All Exposure Routes/Pathways	7.6E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	6.6E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.3E-03
	1,1-Dichloroethene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.8E-03	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	8.8E-02
	Benzene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.0E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.1E+00
	Ethylbenzene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	2.4E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.1E-03
	Tetrachloroethene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	4.7E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.7E-02
	Trichloroethene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	2.9E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	6.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	1.0E-03	mg/kg-day	3.6E-03
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	1.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.0E-03
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.9E-06	mg/kg-day	5.0E-04	mg/kg-day	3.8E-03
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	5.2E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	1.0E-05	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	7.2E-05	mg/kg-day	2.0E-02	mg/kg-day	3.6E-03
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	5.2E-05	mg/kg-day	4.0E-03	mg/kg-day	1.3E-02
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	3.1E-03	mg/kg-day	1.0E-01	mg/kg-day	3.1E-02
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	3.9E-03	mg/kg-day	2.0E-01	mg/kg-day	1.9E-02
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	5.2E-05	mg/kg-day	1.0E-02	mg/kg-day	5.2E-03
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	5.2E-05	mg/kg-day	6.0E-03	mg/kg-day	8.6E-03
	(Total)										8.9E-02

TABLE 7.16.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-08	mg/kg-day	1.0E-03	mg/kg-day	1.1E-05
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	4.3E-06	mg/kg-day	1.4E-01	mg/kg-day	3.1E-05
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	2.8E-08	mg/kg-day	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	2.8E-08	mg/kg-day	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.7E-07	mg/kg-day	5.0E-04	mg/kg-day	3.4E-04
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	1.5E-05	mg/kg-day	4.0E-03	mg/kg-day	3.9E-03
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	9.3E-04	mg/kg-day	1.0E-01	mg/kg-day	9.3E-03
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	1.2E-03	mg/kg-day	2.0E-01	mg/kg-day	5.8E-03
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	1.5E-05	mg/kg-day	1.0E-02	mg/kg-day	1.5E-03
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	1.5E-05	mg/kg-day	6.0E-03	mg/kg-day	2.6E-03
	(Total)										2.5E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.16.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	7.8E-05
	Manganese	5.6E+02	mg/kg	1.1E-06	mg/m^3	R	1.8E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.1E-04
	Pesticides/PCBs												
	4,4'-DDD	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	3.8E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDE	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	3.8E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	7.4E+00	mg/kg	1.5E-08	mg/m^3	R	2.3E-10	mg/kg-day	--	--	--	--	--
	Aroclor 1260	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	3.2E-12	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	2.0E+01	mg/kg	4.0E-08	mg/m^3	R	6.3E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	8.1E-08	mg/m^3	R	1.3E-09	mg/kg-day	--	--	--	--	--
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	5.7E-07	mg/m^3	R	8.9E-09	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	2.0E+02	mg/kg	8.9E-02	mg/m^3	R	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.2E-02
	Ethylbenzene	1.2E+04	mg/kg	2.8E+00	mg/m^3	R	4.3E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.6E-02
	Styrene	1.5E+04	mg/kg	1.4E+00	mg/m^3	R	2.2E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	8.4E-02
	Tetrachloroethene	2.0E+02	mg/kg	9.8E-02	mg/m^3	R	1.5E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.5E-01
	Trichloroethene	2.0E+02	mg/kg	7.5E-02	mg/m^3	R	1.2E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.9E-03
												Total Hazard Index Across All Exposure Routes/Pathways	4.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.16.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.0E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.2E-07	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.0E-07
	4,4'-DDE	9.1E-02	mg/kg	9.1E-02	mg/kg	M	3.2E-08	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.1E-08
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	2.6E-06	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	8.8E-07
	Aroclor 1260	6.7E-02	mg/kg	6.7E-02	mg/kg	M	2.3E-08	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	1.2E-07
	SVOCs										
	Benzo(a)pyrene	7.4E+00	mg/kg	7.4E+00	mg/kg	M	2.6E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.1E-05
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	5.1E-06	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.1E-05
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	9.8E-05	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	8.8E-07
	VOCs										
	Benzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	3.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.9E-07
	Ethylbenzene	7.0E+02	mg/kg	7.0E+02	mg/kg	M	2.5E-04	mg/kg-day	--	--	--
	Styrene	7.9E+02	mg/kg	7.9E+02	mg/kg	M	2.7E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	3.9E-06	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	2.1E-06
	Trichloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	3.9E-06	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	5.1E-08
	(Total)										5.7E-05

TABLE 8.16.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	8.3E-08	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	2.0E-08
	4,4'-DDE	9.1E-02	mg/kg	9.1E-02	mg/kg	M	6.3E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.1E-09
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	5.1E-07	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.7E-07
	Aroclor 1260	6.7E-02	mg/kg	6.7E-02	mg/kg	M	2.2E-08	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	1.1E-07
	SVOCs										
	Benzo(a)pyrene	7.4E+00	mg/kg	7.4E+00	mg/kg	M	2.2E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.7E-05
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	1.5E+01	mg/kg	M	4.4E-06	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-05
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	6.5E-05	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	5.8E-07
	VOCs										
	Benzene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	2.6E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-07
	Ethylbenzene	7.0E+02	mg/kg	7.0E+02	mg/kg	M	1.6E-04	mg/kg-day	--	--	--
	Styrene	7.9E+02	mg/kg	7.9E+02	mg/kg	M	1.8E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	2.6E-06	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-06
	Trichloroethene	1.1E+01	mg/kg	1.1E+01	mg/kg	M	2.6E-06	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	3.4E-08
	(Total)										4.7E-05
										Total Risk Across All Exposure Routes/Pathways	1.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	4.4E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	9.4E-11	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
	4,4'-DDE	9.1E-02	mg/kg	1.4E-10	mg/m^3	R	7.1E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.4E-12
	4,4'-DDT	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	5.8E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.0E-10
	Aroclor 1260	6.7E-02	mg/kg	1.0E-10	mg/m^3	R	5.3E-12	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	1.1E-11
	SVOCs										
	Benzo(a)pyrene	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	5.8E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-09
	Dibenzo(a,h)anthracene	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	1.2E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.7E-09
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	4.2E-07	mg/m^3	R	2.2E-08	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	2.0E-10
	VOCs										
	Benzene	1.1E+01	mg/kg	2.1E-03	mg/m^3	R	1.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-05
	Ethylbenzene	7.0E+02	mg/kg	6.7E-02	mg/m^3	R	3.5E-03	mg/kg-day	--	--	--
	Styrene	7.9E+02	mg/kg	3.0E-02	mg/m^3	R	1.6E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.1E+01	mg/kg	2.3E-03	mg/m^3	R	1.2E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.5E-06
	Trichloroethene	1.1E+01	mg/kg	1.8E-03	mg/m^3	R	9.3E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.5E-07
										Total Risk Across All Exposure Routes/Pathways	1.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	8.6E-06	mg/kg-day	--	--	--
	4-Ethyl Toluene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	2.8E-04	mg/kg-day	--	--	--
	Acetone	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	1.8E-02	mg/kg-day	--	--	--
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	7.2E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.2E-04
	Chloroform	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	1.0E-02	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.0E-04
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	6.3E-02	mg/kg-day	--	--	--
	Naphthalene	4.0E-06	mg/m^3	4.0E-06	mg/m^3	M	2.1E-07	mg/kg-day	--	--	--
	Styrene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	2.0E-02	mg/kg-day	--	--	--
	Tetrachloroethene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	8.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.8E-04
	Toluene	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	3.4E-03	mg/kg-day	--	--	--
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	5.3E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.7E-05
	Xylenes	9.2E-02	mg/m^3	9.2E-02	mg/m^3	M	4.8E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.3E-05	mg/kg-day	--	--	--
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.1E-05	mg/kg-day	--	--	--
	Benzene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-04
	Ethylbenzene	8.0E-04	mg/m^3	8.0E-04	mg/m^3	M	4.2E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.4E-07
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	1.0E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.1E-08
										Total Risk Across All Exposure Routes/Pathways	2.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	8.4E-04	mg/kg-day	--	--	--
	Benzene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-05
	Chlorobenzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Cyclohexane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Ethylbenzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	4.4E-04	mg/kg-day	--	--	--
	Methyl ethyl ketone	7.1E-03	mg/m^3	7.1E-03	mg/m^3	M	3.7E-04	mg/kg-day	--	--	--
	Methylene Chloride	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.7E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.0E-06
	Styrene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	4.9E-04	mg/kg-day	--	--	--
	Tetrachloroethene	6.2E-03	mg/m^3	6.2E-03	mg/m^3	M	3.3E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.8E-06
	Toluene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	1.9E-03	mg/kg-day	--	--	--
	Trichloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	1.7E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-05
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	1.9E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	8.8E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.9E-06	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	4.5E-07
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.9E-06	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	6.4E-07
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.2E-05	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	3.9E-06
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.6E-07	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	7.8E-07
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	3.1E-05	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.8E-04
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	6.3E-05	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.6E-04
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	4.4E-04	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	3.9E-06
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	3.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.1E-05
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.9E-02	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	2.3E-02	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	3.1E-04	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.7E-04
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	3.1E-04	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	4.1E-06
	(Total)										8.5E-04

TABLE 8.16.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.8E-07	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	4.3E-08
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.8E-07	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	6.0E-08
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.1E-06	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	3.7E-07
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	6.9E-08	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	3.5E-07
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	1.3E-05	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-04
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	2.6E-05	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.1E-04
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	1.4E-04	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-06
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	9.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.9E-06
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	5.9E-03	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	7.4E-03	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	9.9E-05	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	5.3E-05
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	9.9E-05	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.3E-06
	(Total)										3.3E-04
										Total Risk Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.7E-08
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	1.3E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.7E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	6.4E-11
	4,4'-DDE	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.7E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	9.1E-11
	4,4'-DDT	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	1.7E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	5.6E-10
	Aroclor 1260	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	4.5E-11
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	3.0E-08	mg/m^3	R	4.5E-09	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.7E-08
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	6.0E-08	mg/m^3	R	8.9E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.7E-08
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	4.2E-07	mg/m^3	R	6.3E-08	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	5.6E-10
	VOCs										
	Benzene	2.0E+02	mg/kg	3.4E-02	mg/m^3	R	5.0E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.0E-04
	Ethylbenzene	1.2E+04	mg/kg	1.0E+00	mg/m^3	R	1.6E-01	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	5.2E-01	mg/m^3	R	7.7E-02	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	3.7E-02	mg/m^3	R	5.5E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-04
	Trichloroethene	2.0E+02	mg/kg	2.9E-02	mg/m^3	R	4.2E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.0E-05
										Total Risk Across All Exposure Routes/Pathways	6.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.6E-03	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.3E-03	mg/kg-day	--	--	--
	Acetone	6.4E+00	mg/m^3	6.4E+00	mg/m^3	M	9.5E-01	mg/kg-day	--	--	--
	Benzene	5.8E+00	mg/m^3	5.8E+00	mg/m^3	M	8.6E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.6E-02
	Chloroform	5.9E+00	mg/m^3	5.9E+00	mg/m^3	M	8.8E-01	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.7E-02
	Ethylbenzene	2.8E+00	mg/m^3	2.8E+00	mg/m^3	M	4.2E-01	mg/kg-day	--	--	--
	Naphthalene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	6.6E-06	mg/kg-day	--	--	--
	Styrene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	2.6E-01	mg/kg-day	--	--	--
	Tetrachloroethene	6.8E+00	mg/m^3	6.8E+00	mg/m^3	M	1.0E+00	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.1E-02
	Toluene	2.7E+00	mg/m^3	2.7E+00	mg/m^3	M	4.0E-01	mg/kg-day	--	--	--
	Trichloroethene	4.2E+00	mg/m^3	4.2E+00	mg/m^3	M	6.2E-01	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.4E-03
	Xylenes	1.3E+00	mg/m^3	1.3E+00	mg/m^3	M	2.0E-01	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	1,1-Dichloroethene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	4.1E-04	mg/kg-day	--	--	--
	Benzene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.4E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-03
	Ethylbenzene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	5.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	1.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-06
	Trichloroethene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	6.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.7E-07
										Total Risk Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.4E-09	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.1E-09
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.4E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.5E-09
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	2.7E-08	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	9.3E-09
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.7E-10	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	1.8E-09
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	7.4E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.9E-07
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	1.5E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.1E-07
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	1.0E-06	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	9.3E-09
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.4E-08
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	4.4E-05	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	5.5E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.4E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	4.0E-07
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	7.4E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	9.6E-09
	(Total)										2.0E-06

TABLE 8.16.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-10	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	6.2E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.0E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	9.6E-11
	4,4'-DDE	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.0E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-10
	4,4'-DDT	7.4E+00	mg/kg	7.4E+00	mg/kg	M	2.5E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	8.4E-10
	Aroclor 1260	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.5E-10	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	7.7E-10
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	2.0E+01	mg/kg	M	2.9E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.5E-07
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	4.0E+01	mg/kg	M	5.8E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.4E-07
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	2.8E+02	mg/kg	M	3.1E-07	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	2.8E-09
	VOCs										
	Benzene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.2E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-08
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	1.5E+04	mg/kg	M	1.7E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.2E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.2E-07
	Trichloroethene	2.0E+02	mg/kg	2.0E+02	mg/kg	M	2.2E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	2.9E-09
	(Total)										7.3E-07
										Total Risk Across All Exposure Routes/Pathways	2.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	9.5E-11
	Manganese	5.6E+02	mg/kg	1.1E-06	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	5.4E-13	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.3E-13
	4,4'-DDE	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	5.4E-13	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.8E-13
	4,4'-DDT	7.4E+00	mg/kg	1.5E-08	mg/m^3	R	3.3E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.1E-12
	Aroclor 1260	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	4.5E-14	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	9.1E-14
	SVOCs										
	Benzo(a)pyrene	2.0E+01	mg/kg	4.0E-08	mg/m^3	R	9.1E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.5E-11
	Dibenzo(a,h)anthracene	4.0E+01	mg/kg	8.1E-08	mg/m^3	R	1.8E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.4E-11
	N-Nitrosodiphenylamine	2.8E+02	mg/kg	5.7E-07	mg/m^3	R	1.3E-10	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-12
	VOCs										
	Benzene	2.0E+02	mg/kg	8.9E-02	mg/m^3	R	2.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-06
	Ethylbenzene	1.2E+04	mg/kg	2.8E+00	mg/m^3	R	6.2E-04	mg/kg-day	--	--	--
	Styrene	1.5E+04	mg/kg	1.4E+00	mg/m^3	R	3.1E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E+02	mg/kg	9.8E-02	mg/m^3	R	2.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.6E-07
	Trichloroethene	2.0E+02	mg/kg	7.5E-02	mg/m^3	R	1.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-07
										Total Risk Across All Exposure Routes/Pathways	2.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.16.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.4E-02	--	9.0E-05	1.4E-02
			Manganese	--	--	--	--	Manganese	CNS	3.9E-03	--	2.6E-04	4.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	1.0E-07	--	2.0E-08	1.2E-07	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.1E-08	--	2.1E-09	1.3E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	8.8E-07	--	1.7E-07	1.1E-06	4,4'-DDT	Liver	1.4E-02	--	2.9E-03	1.7E-02
			Aroclor 1260	1.2E-07	--	1.1E-07	2.3E-07	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	3.1E-05	--	2.7E-05	5.8E-05	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.1E-05	--	1.8E-05	3.9E-05	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	8.8E-07	--	5.8E-07	1.5E-06	N-Nitrosodiphenylamine	--	1.4E-02	--	9.0E-03	2.3E-02
			VOCs					**VOCs**					
			Benzene	3.9E-07	--	2.6E-07	6.5E-07	Benzene	Blood	2.7E-03	--	1.8E-03	4.5E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	6.9E-03	--	4.5E-03	1.1E-02
			Styrene	--	--	--	--	Styrene	Blood/Liver	3.8E-03	--	2.5E-03	6.4E-03
			Tetrachloroethene	2.1E-06	--	1.4E-06	3.5E-06	Tetrachloroethene	Liver	1.1E-03	--	7.2E-04	1.8E-03
			Trichloroethene	5.1E-08	--	3.4E-08	8.5E-08	Trichloroethene	Liver	1.8E-03	--	1.2E-03	3.1E-03
			(Total)	5.7E-05	--	4.7E-05	1.0E-04	(Total)		6.2E-02	--	2.3E-02	8.5E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.7E-08	--	1.7E-08	Cadmium	Kidney	--	5.4E-04	--	5.4E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.2E-03	--	2.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	2.3E-11	--	2.3E-11	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	2.4E-12	--	2.4E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.0E-10	--	2.0E-10	4,4'-DDT	--	--	--	--	--
			Aroclor 1260	--	1.1E-11	--	1.1E-11	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	2.3E-09	--	2.3E-09	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.7E-09	--	4.7E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	--	2.0E-10	--	2.0E-10	N-Nitrosodiphenylamine	--	--	--	--	--

TABLE 9.16.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.1E-05	--	1.1E-05	Benzene	Blood	--	1.8E-02	--	1.8E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-02	--	1.7E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.7E-02	--	1.7E-02
			Tetrachloroethene	--	2.5E-06	--	2.5E-06	Tetrachloroethene	Liver/Kidney	--	3.3E-02	--	3.3E-02
			Trichloroethene	--	6.5E-07	--	6.5E-07	Trichloroethene	CNS	--	1.5E-03	--	1.5E-03
			(Total)	--	1.4E-05	--	1.4E-05	(Total)		--	9.0E-02	--	9.0E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.1E-01	--	1.1E-01
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.4E-02	--	1.4E-02
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.9E-03	--	3.9E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	5.7E-02	--	5.7E-02
			Benzene	--	7.2E-04	--	7.2E-04	Benzene	Blood	--	1.2E+00	--	1.2E+00
			Chloroform	--	2.0E-04	--	2.0E-04	Chloroform	Kidney	--	3.4E-01	--	3.4E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-01	--	3.1E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-04	--	2.3E-04
			Styrene	--	--	--	--	Styrene	CNS	--	2.2E-01	--	2.2E-01
			Tetrachloroethene	--	1.8E-04	--	1.8E-04	Tetrachloroethene	Liver/Kidney	--	2.4E+00	--	2.4E+00
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-01	--	1.1E-01
			Trichloroethene	--	3.7E-05	--	3.7E-05	Trichloroethene	CNS	--	8.6E-02	--	8.6E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.7E-02	--	6.7E-02
			(Total)	--	1.1E-03	--	1.1E-03	(Total)		--	4.9E+00	--	4.9E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.3E-04	--	2.3E-04
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	8.6E-03	--	8.6E-03
			Benzene	--	2.0E-04	--	2.0E-04	Benzene	Blood	--	3.3E-01	--	3.3E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.1E-04	--	2.1E-04
			Tetrachloroethene	--	3.4E-07	--	3.4E-07	Tetrachloroethene	Liver/Kidney	--	4.5E-03	--	4.5E-03
			Trichloroethene	--	7.1E-08	--	7.1E-08	Trichloroethene	CNS	--	1.7E-04	--	1.7E-04
			(Total)	--	2.0E-04	--	2.0E-04	(Total)		--	3.4E-01	--	3.4E-01

TABLE 9.16.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	8.3E-03	--	8.3E-03
			Benzene	--	3.0E-05	--	3.0E-05	Benzene	Blood	--	4.9E-02	--	4.9E-02
			Chlorobenzene	--	--	--	--	Chlorobenzene	Kidney	--	1.1E-03	--	1.1E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.9E-03	--	1.9E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E-03	--	2.2E-03
			Methyl ethyl ketone	--	--	--	--	Methyl ethyl ketone	Developmental	--	7.3E-04	--	7.3E-04
			Methylene Chloride	--	2.0E-06	--	2.0E-06	Methylene Chloride	Liver	--	1.4E-02	--	1.4E-02
			Styrene	--	--	--	--	Styrene	CNS	--	5.3E-03	--	5.3E-03
			Tetrachloroethene	--	6.8E-06	--	6.8E-06	Tetrachloroethene	Liver/Kidney	--	9.1E-02	--	9.1E-02
			Toluene	--	--	--	--	Toluene	CNS	--	6.1E-02	--	6.1E-02
			Trichloroethene	--	1.2E-05	--	1.2E-05	Trichloroethene	CNS	--	2.8E-02	--	2.8E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.7E-02	--	2.7E-02
			(Total)	--	5.1E-05	--	5.1E-05	(Total)		--	2.9E-01	--	2.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.9E+00
Total Risk for Deep Soil-to-Indoor Air =	2.0E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	3.4E-01
Total Risk for Workplace Indoor Air =	5.1E-05	Total Hazard Index for Workplace Indoor Air =	2.9E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.16.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-01	--	5.0E-04	1.8E-01
			Manganese	--	--	--	--	Manganese	CNS	5.1E-02	--	1.4E-03	5.3E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	4.5E-07	--	4.3E-08	4.9E-07	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	6.4E-07	--	6.0E-08	7.0E-07	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	3.9E-06	--	3.7E-07	4.3E-06	4,4'-DDT	Liver	1.9E-01	--	1.6E-02	2.1E-01
			Aroclor 1260	7.8E-07	--	3.5E-07	1.1E-06	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	3.8E-04	--	1.5E-04	5.3E-04	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.6E-04	--	1.1E-04	3.6E-04	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	3.9E-06	--	1.2E-06	5.2E-06	N-Nitrosodiphenylamine	--	1.8E-01	--	5.0E-02	2.3E-01
			VOCs					**VOCs**					
			Benzene	3.1E-05	--	9.9E-06	4.1E-05	Benzene	Blood	6.4E-01	--	1.8E-01	8.2E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	1.5E+00	--	4.3E-01	2.0E+00
			Styrene	--	--	--	--	Styrene	Blood/Liver	9.6E-01	--	2.7E-01	1.2E+00
			Tetrachloroethene	1.7E-04	--	5.3E-05	2.2E-04	Tetrachloroethene	Liver	2.6E-01	--	7.2E-02	3.3E-01
			Trichloroethene	4.1E-06	--	1.3E-06	5.4E-06	Trichloroethene	Liver	4.3E-01	--	1.2E-01	5.5E-01
			(Total)	8.5E-04	--	3.3E-04	1.2E-03	(Total)		4.4E+00	--	1.1E+00	5.5E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	4.7E-08	--	4.7E-08	Cadmium	Kidney	--	2.4E-03	--	2.4E-03
			Manganese	--	--	--	--	Manganese	CNS	--	9.4E-03	--	9.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	6.4E-11	--	6.4E-11	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	9.1E-11	--	9.1E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	5.6E-10	--	5.6E-10	4,4'-DDT	--	--	--	--	--
			Aroclor 1260	--	4.5E-11	--	4.5E-11	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	1.7E-08	--	1.7E-08	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.7E-08	--	3.7E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	--	5.6E-10	--	5.6E-10	N-Nitrosodiphenylamine	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	5.0E-04	--	5.0E-04	Benzene	Blood	--	1.3E+00	--	1.3E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.2E+00	--	1.2E+00
			Styrene	--	--	--	--	Styrene	CNS	--	1.3E+00	--	1.3E+00
			Tetrachloroethene	--	1.2E-04	--	1.2E-04	Tetrachloroethene	Liver/Kidney	--	2.4E+00	--	2.4E+00
			Trichloroethene	--	3.0E-05	--	3.0E-05	Trichloroethene	CNS	--	1.1E-01	--	1.1E-01
			(Total)	--	6.5E-04	--	6.5E-04	(Total)		--	6.2E+00	--	6.2E+00

TABLE 9.16.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.4E+00	--	6.4E+00
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	8.4E-01	--	8.4E-01
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	7.2E-02	--	7.2E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	4.5E+00	--	4.5E+00
			Benzene	--	8.6E-02	--	8.6E-02	Benzene	Blood	--	2.1E+02	--	2.1E+02
			Chloroform	--	1.7E-02	--	1.7E-02	Chloroform	Kidney	--	4.4E+01	--	4.4E+01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.2E+00	--	3.2E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	4.3E+00	--	4.3E+00
			Tetrachloroethene	--	2.1E-02	--	2.1E-02	Tetrachloroethene	Liver/Kidney	--	4.4E+02	--	4.4E+02
			Toluene	--	--	--	--	Toluene	CNS	--	2.0E+01	--	2.0E+01
			Trichloroethene	--	4.4E-03	--	4.4E-03	Trichloroethene	CNS	--	1.6E+01	--	1.6E+01
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.3E+00	--	4.3E+00
			(Total)	--	1.3E-01	--	1.3E-01	(Total)		--	7.6E+02	--	7.6E+02
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.3E-03	--	2.3E-03
		Using the J&E Model	1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	8.8E-02	--	8.8E-02
			Benzene	--	2.4E-03	--	2.4E-03	Benzene	Blood	--	6.1E+00	--	6.1E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.1E-03	--	4.1E-03
			Tetrachloroethene	--	2.3E-06	--	2.3E-06	Tetrachloroethene	Liver/Kidney	--	4.7E-02	--	4.7E-02
			Trichloroethene	--	4.7E-07	--	4.7E-07	Trichloroethene	CNS	--	1.7E-03	--	1.7E-03
			(Total)	--	2.4E-03	--	2.4E-03	(Total)		--	6.2E+00	--	6.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.8E-03	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.2E+01
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-01	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.6E+02
Total Risk for Deep Soil-to-Indoor Air =	2.4E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	6.2E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.16.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	3.6E-03	--	1.1E-05	3.6E-03
			Manganese	--	--	--	--	Manganese	CNS	1.0E-03	--	3.1E-05	1.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	1.1E-09	--	9.6E-11	1.2E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.5E-09	--	1.4E-10	1.6E-09	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	9.3E-09	--	8.4E-10	1.0E-08	4,4'-DDT	Liver	3.8E-03	--	3.4E-04	4.2E-03
			Aroclor 1260	1.8E-09	--	7.7E-10	2.6E-09	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	8.9E-07	--	3.5E-07	1.2E-06	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	6.1E-07	--	2.4E-07	8.4E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	9.3E-09	--	2.8E-09	1.2E-08	N-Nitrosodiphenylamine	--	3.6E-03	--	1.1E-03	4.7E-03
			VOCs					**VOCs**					
			Benzene	7.4E-08	--	2.2E-08	9.6E-08	Benzene	Blood	1.3E-02	--	3.9E-03	1.7E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	3.1E-02	--	9.3E-03	4.0E-02
			Styrene	--	--	--	--	Styrene	Blood/Liver	1.9E-02	--	5.8E-03	2.5E-02
			Tetrachloroethene	4.0E-07	--	1.2E-07	5.2E-07	Tetrachloroethene	Liver	5.2E-03	--	1.5E-03	6.7E-03
			Trichloroethene	9.6E-09	--	2.9E-09	1.2E-08	Trichloroethene	Liver	8.6E-03	--	2.6E-03	1.1E-02
			(Total)	2.0E-06	--	7.3E-07	2.7E-06	(Total)		8.9E-02	--	2.5E-02	1.1E-01

TABLE 9.16.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	9.5E-11	--	9.5E-11	Cadmium	Kidney	--	7.8E-05	--	7.8E-05
			Manganese	--	--	--	--	Manganese	CNS	--	3.1E-04	--	3.1E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	1.3E-13	--	1.3E-13	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	1.8E-13	--	1.8E-13	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	1.1E-12	--	1.1E-12	4,4'-DDT	--	--	--	--	--
			Aroclor 1260	--	9.1E-14	--	9.1E-14	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	3.5E-11	--	3.5E-11	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	7.4E-11	--	7.4E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	--	1.1E-12	--	1.1E-12	N-Nitrosodiphenylamine	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	2.0E-06	--	2.0E-06	Benzene	Blood	--	8.2E-02	--	8.2E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.6E-02	--	7.6E-02
			Styrene	--	--	--	--	Styrene	CNS	--	8.4E-02	--	8.4E-02
			Tetrachloroethene	--	4.6E-07	--	4.6E-07	Tetrachloroethene	Liver/Kidney	--	1.5E-01	--	1.5E-01
			Trichloroethene	--	1.2E-07	--	1.2E-07	Trichloroethene	CNS	--	6.9E-03	--	6.9E-03
			(Total)	--	2.6E-06	--	2.6E-06	(Total)		--	4.0E-01	--	4.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.3E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.1E-01
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-39	**EAPC No.:** 17

RME Exposure Scenario

TABLE 7.17.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	8.9E-07	mg/kg-day	4.0E-03	mg/kg-day	2.2E-04
	(Total)										2.2E-04
Dermal	**VOCs**										
	Benzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	5.9E-07	mg/kg-day	4.0E-03	mg/kg-day	1.5E-04
	(Total)										1.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	9.1E-01	mg/kg	1.7E-04	mg/m^3	R	2.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.0E-04
	Benzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.5E-02
	Cyclohexane	8.1E-04	mg/m^3	8.1E-04	mg/m^3	M	1.2E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	6.9E-05
	Ethylbenzene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	3.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.8E-03
	Styrene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.0E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	7.8E-04
	Tetrachloroethene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.9E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.9E-05
	Toluene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	5.3E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.1E-03
	Xylenes	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	6.7E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.3E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	3.0E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.0E-01
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-01
	Ethylbenzene	9.1E-03	mg/m^3	9.1E-03	mg/m^3	M	1.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.3E-03
	Methyl Ethyl Ketone	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.7E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	2.6E-03
	Styrene	6.8E-03	mg/m^3	6.8E-03	mg/m^3	M	1.0E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.9E-03
	Tetrachloroethene	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-01
	Toluene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	6.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.8E-02
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.9E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.1E-03
	Xylenes	3.5E-02	mg/m^3	3.5E-02	mg/m^3	M	5.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.6E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	3.3E-05	mg/kg-day	4.0E-03	mg/kg-day	8.4E-03
	(Total)										8.4E-03
Dermal	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	9.4E-06	mg/kg-day	4.0E-03	mg/kg-day	2.3E-03
	(Total)										2.3E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E+00	mg/kg	4.4E-04	mg/m^3	R	2.8E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.2E-03
	Benzene	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	4.8E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E+00
	Cyclohexane	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	3.5E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.0E-03
	Ethylbenzene	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	9.8E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-01
	Styrene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	5.9E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.3E-02
	Tetrachloroethene	4.9E-06	mg/m^3	4.9E-06	mg/m^3	M	3.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-04
	Toluene	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	1.6E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-01
	Xylenes	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	6.8E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	6.8E-07	mg/kg-day	4.0E-03	mg/kg-day	1.7E-04
	(Total)										1.7E-04
Dermal	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.0E-07	mg/kg-day	4.0E-03	mg/kg-day	5.1E-05
	(Total)										5.1E-05
										Total Hazard Index Across All Exposure Routes/Pathways	2.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.17.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E+00	mg/kg	1.2E-03	mg/m^3	R	1.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.17.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	3.2E-07	mg/kg-day	1.0E-01	mg/kg-day^{-1}	3.2E-08
	(Total)										3.2E-08
Dermal	**VOCs**										
	Benzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	2.1E-07	mg/kg-day	1.0E-01	mg/kg-day^{-1}	2.1E-08
	(Total)										2.1E-08
										Total Risk Across All Exposure Routes/Pathways	5.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	9.1E-01	mg/kg	1.7E-04	mg/m^3	R	8.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.8E-07
										Total Risk Across All Exposure Routes/Pathways	8.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	5.7E-05	mg/kg-day	--	--	--
	Benzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.8E-05
	Cyclohexane	8.1E-04	mg/m^3	8.1E-04	mg/m^3	M	4.2E-05	mg/kg-day	--	--	--
	Ethylbenzene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	1.2E-03	mg/kg-day	--	--	--
	Styrene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	7.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	6.9E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-09
	Toluene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	1.9E-04	mg/kg-day	--	--	--
	Xylenes	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	2.4E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	1.1E-02	mg/kg-day	--	--	--
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.3E-05
	Ethylbenzene	9.1E-03	mg/m^3	9.1E-03	mg/m^3	M	4.8E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Styrene	6.8E-03	mg/m^3	6.8E-03	mg/m^3	M	3.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	3.9E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.2E-06
	Toluene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	--	--	--
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	6.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.7E-07
	Xylenes	3.5E-02	mg/m^3	3.5E-02	mg/m^3	M	1.8E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	4.1E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.1E-07
	(Total)										4.1E-07
Dermal	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.3E-06	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.3E-07
	(Total)										1.3E-07
										Total Risk Across All Exposure Routes/Pathways	5.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E+00	mg/kg	4.4E-04	mg/m^3	R	6.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.6E-06
										Total Risk Across All Exposure Routes/Pathways	6.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	3.8E-04	mg/kg-day	--	--	--
	Benzene	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-03
	Cyclohexane	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	8.1E-04	mg/kg-day	--	--	--
	Ethylbenzene	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	2.3E-02	mg/kg-day	--	--	--
	Styrene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Tetrachloroethene	4.9E-06	mg/m^3	4.9E-06	mg/m^3	M	7.3E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Toluene	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	3.6E-03	mg/kg-day	--	--	--
	Xylenes	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	9.7E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.7E-10
	(Total)										9.7E-10
Dermal	**VOCs**										
	Benzene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.9E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-10
	(Total)										2.9E-10
										Total Risk Across All Exposure Routes/Pathways	1.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E+00	mg/kg	1.2E-03	mg/m^3	R	2.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-08
										Total Risk Across All Exposure Routes/Pathways	2.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.17.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-39
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	3.2E-08	--	2.1E-08	5.3E-08	Benzene	Blood	2.2E-04	--	1.5E-04	3.7E-04
			(Total)	3.2E-08	--	2.1E-08	5.3E-08	(Total)		2.2E-04	--	1.5E-04	3.7E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	8.8E-07	--	8.8E-07	Benzene	Blood	--	1.4E-03	--	1.4E-03
			(Total)	--	8.8E-07	--	8.8E-07	(Total)		--	1.4E-03	--	1.4E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.0E-04	--	8.0E-04
			Benzene	--	5.8E-05	--	5.8E-05	Benzene	Blood	--	9.5E-02	--	9.5E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	6.9E-05	--	6.9E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.8E-03	--	5.8E-03
			Styrene	--	--	--	--	Styrene	CNS	--	7.8E-04	--	7.8E-04
			Tetrachloroethene	--	1.4E-09	--	1.4E-09	Tetrachloroethene	Liver/Kidney	--	1.9E-05	--	1.9E-05
			Toluene	--	--	--	--	Toluene	CNS	--	6.1E-03	--	6.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.3E-03	--	3.3E-03
			(Total)	--	5.8E-05	--	5.8E-05	(Total)		--	1.1E-01	--	1.1E-01
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.0E-01	--	1.0E-01
			Benzene	--	6.3E-05	--	6.3E-05	Benzene	Blood	--	1.0E-01	--	1.0E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.3E-03	--	2.3E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	2.6E-03	--	2.6E-03
			Styrene	--	--	--	--	Styrene	CNS	--	3.9E-03	--	3.9E-03
			Tetrachloroethene	--	8.2E-06	--	8.2E-06	Tetrachloroethene	Liver/Kidney	--	1.1E-01	--	1.1E-01
			Toluene	--	--	--	--	Toluene	CNS	--	7.8E-02	--	7.8E-02
			Trichloroethene	--	4.7E-07	--	4.7E-07	Trichloroethene	CNS	--	1.1E-03	--	1.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.6E-02	--	2.6E-02
			(Total)	--	7.2E-05	--	7.2E-05	(Total)		--	4.3E-01	--	4.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.3E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.8E-03
Total Risk for Shallow Soil-to-Indoor Air =	5.8E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	7.2E-05	Total Hazard Index for Workplace Indoor Air =	4.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.17.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.1E-07	--	1.3E-07	5.4E-07	Benzene	Blood	8.4E-03	--	2.3E-03	1.1E-02
			(Total)	4.1E-07	--	1.3E-07	5.4E-07	(Total)		8.4E-03	--	2.3E-03	1.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	6.6E-06	--	6.6E-06	Benzene	Blood	--	1.7E-02	--	1.7E-02
			(Total)	--	6.6E-06	--	6.6E-06	(Total)		--	1.7E-02	--	1.7E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.2E-03	--	8.2E-03
			Benzene	--	1.1E-03	--	1.1E-03	Benzene	Blood	--	2.8E+00	--	2.8E+00
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.0E-03	--	2.0E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-01	--	1.7E-01
			Styrene	--	--	--	--	Styrene	CNS	--	2.3E-02	--	2.3E-02
			Tetrachloroethene	--	1.5E-08	--	1.5E-08	Tetrachloroethene	Liver/Kidney	--	3.2E-04	--	3.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E-01	--	1.8E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.4E-02	--	3.4E-02
			(Total)	--	1.1E-03	--	1.1E-03	(Total)		--	3.2E+00	--	3.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.1E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.7E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.17.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	9.7E-10	--	2.9E-10	1.3E-09	Benzene	Blood	1.7E-04	--	5.1E-05	2.2E-04
			(Total)	9.7E-10	--	2.9E-10	1.3E-09	(Total)		1.7E-04	--	5.1E-05	2.2E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	2.6E-08	--	2.6E-08	Benzene	Blood	--	1.1E-03	--	1.1E-03
			(Total)	--	2.6E-08	--	2.6E-08	(Total)		--	1.1E-03	--	1.1E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.3E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-41	**EAPC No.:** 18

RME Exposure Scenario

TABLE 7.18.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-03
	Ethylbenzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.7E-04
	Styrene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	9.4E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.6E-05
	Tetrachloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.1E-04
	Toluene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	4.5E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.3E-04
	Xylenes	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.18.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	1.1E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.8E-02
	Benzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	2.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E-01
	Chloroform	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	3.9E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.6E-03
	Cyclohexane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.3E-03
	Ethylbenzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	3.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.4E-03
	Methyl Ethyl Ketone	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	7.6E-03
	Methylene Chloride	8.3E-03	mg/m^3	8.3E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.1E-02
	Styrene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.8E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	7.0E-03
	Tetrachloroethene	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	4.4E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.4E-01
	Toluene	2.5E-01	mg/m^3	2.5E-01	mg/m^3	M	3.6E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.2E-01
	Trichloroethene	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	6.6E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.8E-03
	Xylenes	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	8.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.18.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	9.6E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.6E-02
	Ethylbenzene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	4.8E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.3E-03
	Styrene	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-03
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	2.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.3E-03
	Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.7E-02
	Xylenes	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	2.3E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	8.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.18.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-06
	Ethylbenzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	5.4E-05	mg/kg-day	--	--	--
	Styrene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	3.3E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	7.6E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
	Toluene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
	Xylenes	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	8.0E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.18.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	3.9E-03	mg/kg-day	--	--	--
	Benzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.0E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-04
	Chloroform	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.4E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.7E-06
	Cyclohexane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	8.1E-04	mg/kg-day	--	--	--
	Ethylbenzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	3.9E-03	mg/kg-day	--	--	--
	Methylene Chloride	8.3E-03	mg/m^3	8.3E-03	mg/m^3	M	4.4E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.5E-06
	Styrene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.4E-04	mg/kg-day	--	--	--
	Tetrachloroethene	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	1.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.3E-05
	Toluene	2.5E-01	mg/m^3	2.5E-01	mg/m^3	M	1.3E-02	mg/kg-day	--	--	--
	Trichloroethene	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	2.4E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.6E-06
	Xylenes	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	2.9E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.18.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-05
	Ethylbenzene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Styrene	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	5.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-07
	Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.3E-04	mg/kg-day	--	--	--
	Xylenes	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	5.3E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.18.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-41
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.1E-06	--	1.1E-06	Benzene	Blood	--	1.8E-03	--	1.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.7E-04	--	2.7E-04
			Styrene	--	--	--	--	Styrene	CNS	--	3.6E-05	--	3.6E-05
			Tetrachloroethene	--	1.6E-08	--	1.6E-08	Tetrachloroethene	Liver/Kidney	--	2.1E-04	--	2.1E-04
			Toluene	--	--	--	--	Toluene	CNS	--	5.3E-04	--	5.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-05	--	1.1E-05
			(Total)	--	1.1E-06	--	1.1E-06	(Total)		--	2.9E-03	--	2.9E-03
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	3.8E-02	--	3.8E-02
			Benzene	--	1.0E-04	--	1.0E-04	Benzene	Blood	--	1.7E-01	--	1.7E-01
			Chloroform	--	2.7E-06	--	2.7E-06	Chloroform	Kidney	--	4.6E-03	--	4.6E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.3E-03	--	1.3E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.4E-03	--	5.4E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	7.6E-03	--	7.6E-03
			Methylene Chloride	--	1.5E-06	--	1.5E-06	Methylene Chloride	Liver	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	7.0E-03	--	7.0E-03
			Tetrachloroethene	--	3.3E-05	--	3.3E-05	Tetrachloroethene	Liver/Kidney	--	4.4E-01	--	4.4E-01
			Toluene	--	--	--	--	Toluene	CNS	--	4.2E-01	--	4.2E-01
			Trichloroethene	--	1.6E-06	--	1.6E-06	Trichloroethene	CNS	--	3.8E-03	--	3.8E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.0E-02	--	4.0E-02
			(Total)	--	1.4E-04	--	1.4E-04	(Total)		--	1.1E+00	--	1.1E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.9E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.4E-04	Total Hazard Index for Workplace Indoor Air =	1.1E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.18.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.2E-05	--	2.2E-05	Benzene	Blood	--	5.6E-02	--	5.6E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.3E-03	--	8.3E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-03	--	1.1E-03
			Tetrachloroethene	--	1.1E-07	--	1.1E-07	Tetrachloroethene	Liver/Kidney	--	2.3E-03	--	2.3E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.7E-02	--	1.7E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-04	--	1.1E-04
			(Total)	--	2.2E-05	--	2.2E-05	(Total)		--	8.5E-02	--	8.5E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.2E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.5E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-43	**EAPC No.:** 19

RME Exposure Scenario

TABLE 7.19.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	9.0E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	7.7E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	4.0E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	2.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	2.7E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	9.3E-05
	Freon 11 (TCFM)	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.3E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-04
	Tetrachloroethene	5.1E-04	mg/m^3	5.1E-04	mg/m^3	M	7.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	7.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	9.8E-01	mg/m^3	9.8E-01	mg/m^3	M	1.4E-01	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.0E-01
	Benzene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	7.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.6E-01
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.5E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-03
	Cyclohexane	7.6E-03	mg/m^3	7.6E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	6.5E-04
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.6E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.5E-03
	Methyl Ethyl Ketone	5.4E-01	mg/m^3	5.4E-01	mg/m^3	M	7.9E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	5.5E-02
	Methylene Chloride	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.8E-02
	Styrene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	4.4E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.7E-03
	Tetrachloroethene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.3E-01
	Toluene	9.7E-02	mg/m^3	9.7E-02	mg/m^3	M	1.4E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.7E-01
	Xylenes	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	8.1E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	(Total)										--
								Total Hazard Index Across All Exposure Routes/Pathways			--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	1.7E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	8.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	4.3E-04	mg/m^3	4.3E-04	mg/m^3	M	2.7E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	9.5E-04
	Freon 11 (TCFM)	3.7E-04	mg/m^3	3.7E-04	mg/m^3	M	2.4E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	7.7E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	7.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	4.6E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.4E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.8E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	9.3E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.19.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.8E-02	mg/kg	3.6E-11	mg/m^3	R	5.7E-13	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.9E-11	mg/m^3	R	2.9E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.19.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	6.3E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.5E-08
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	3.2E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-08
	(Total)										8.9E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	5.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	6.5E-08
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.8E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.1E-08
	(Total)										7.6E-08
										Total Risk Across All Exposure Routes/Pathways	1.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	1.4E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	5.5E-12
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	7.2E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.0E-12
										Total Risk Across All Exposure Routes/Pathways	8.5E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	9.5E-06	mg/kg-day	--	--	--
	Freon 11 (TCFM)	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	8.2E-06	mg/kg-day	--	--	--
	Tetrachloroethene	5.1E-04	mg/m^3	5.1E-04	mg/m^3	M	2.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.6E-07
										Total Risk Across All Exposure Routes/Pathways	5.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	9.8E-01	mg/m^3	9.8E-01	mg/m^3	M	5.1E-02	mg/kg-day	--	--	--
	Benzene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	2.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-04
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	5.5E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.0E-06
	Cyclohexane	7.6E-03	mg/m^3	7.6E-03	mg/m^3	M	4.0E-04	mg/kg-day	--	--	--
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	9.3E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	5.4E-01	mg/m^3	5.4E-01	mg/m^3	M	2.8E-02	mg/kg-day	--	--	--
	Methylene Chloride	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.5E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.6E-06
	Styrene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	4.5E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	9.5E-06
	Toluene	9.7E-02	mg/m^3	9.7E-02	mg/m^3	M	5.1E-03	mg/kg-day	--	--	--
	Xylenes	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	2.9E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	2.8E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.4E-07
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	1.4E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.9E-08
	(Total)										4.0E-07
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.2E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.4E-07
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	5.9E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.4E-08
	(Total)										1.6E-07
										Total Risk Across All Exposure Routes/Pathways	5.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	4.0E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.6E-11
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	2.1E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	8.4E-12
										Total Risk Across All Exposure Routes/Pathways	2.4E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	4.3E-04	mg/m^3	4.3E-04	mg/m^3	M	6.3E-05	mg/kg-day	--	--	--
	Freon 11 (TCFM)	3.7E-04	mg/m^3	3.7E-04	mg/m^3	M	5.5E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.8E-06
										Total Risk Across All Exposure Routes/Pathways	3.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	6.6E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.0E-10
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	3.4E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.4E-10
	(Total)										9.4E-10
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	2.6E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.1E-10
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	1.3E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.4E-11
	(Total)										3.7E-10
										Total Risk Across All Exposure Routes/Pathways	1.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	3.6E-11	mg/m^3	R	8.1E-15	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.2E-14
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.9E-11	mg/m^3	R	4.2E-15	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.7E-14
										Total Risk Across All Exposure Routes/Pathways	4.9E-14

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.19.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-43
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	7.5E-08	--	6.5E-08	1.4E-07	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.3E-08	--	1.1E-08	2.4E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	8.9E-08	--	7.6E-08	1.6E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	5.5E-12	--	5.5E-12	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.0E-12	--	3.0E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	8.5E-12	--	8.5E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	9.3E-05	--	9.3E-05
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	1.2E-04	--	1.2E-04
			Tetrachloroethene	--	5.6E-07	--	5.6E-07	Tetrachloroethene	Liver/Kidney	--	7.5E-03	--	7.5E-03
			(Total)	--	5.6E-07	--	5.6E-07	(Total)		--	7.7E-03	--	7.7E-03
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.0E-01	--	5.0E-01
			Benzene	--	2.8E-04	--	2.8E-04	Benzene	Blood	--	4.6E-01	--	4.6E-01
			Chloroform	--	1.0E-06	--	1.0E-06	Chloroform	Kidney	--	1.8E-03	--	1.8E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	6.5E-04	--	6.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.5E-03	--	4.5E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	5.5E-02	--	5.5E-02
			Methylene Chloride	--	2.6E-06	--	2.6E-06	Methylene Chloride	Liver	--	1.8E-02	--	1.8E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.7E-03	--	1.7E-03
			Tetrachloroethene	--	9.5E-06	--	9.5E-06	Tetrachloroethene	Liver/Kidney	--	1.3E-01	--	1.3E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.7E-01	--	1.7E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.0E-02	--	4.0E-02
			(Total)	--	2.9E-04	--	2.9E-04	(Total)		--	1.4E+00	--	1.4E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.6E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.7E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	2.9E-04	Total Hazard Index for Workplace Indoor Air =	1.4E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.19.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	3.4E-07	--	1.4E-07	4.8E-07	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	5.9E-08	--	2.4E-08	8.3E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	4.0E-07	--	1.6E-07	5.6E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	1.6E-11	--	1.6E-11	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	8.4E-12	--	8.4E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	2.4E-11	--	2.4E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	9.5E-04	--	9.5E-04
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	3.8E-06	--	3.8E-06	Tetrachloroethene	Liver/Kidney	--	7.7E-02	--	7.7E-02
			(Total)	--	3.8E-06	--	3.8E-06	(Total)		--	7.9E-02	--	7.9E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.9E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.19.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Trench Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	8.0E-10	--	3.1E-10	1.1E-09	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.4E-10	--	5.4E-11	1.9E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	9.4E-10	--	3.7E-10	1.3E-09	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	3.2E-14	--	3.2E-14	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.7E-14	--	1.7E-14	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	4.9E-14	--	4.9E-14	(Total)		--	--	--	--

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.3E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-45	**EAPC No.:** 20

RME Exposure Scenario

TABLE 7.20.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	5.4E-06	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	6.0E-06
	Freon 11 (TCFM)	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.1E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.0E-04
	Tetrachloroethene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	3.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	6.1E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	1.2E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	6.1E-05
	Freon 11 (TCFM)	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	2.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-03
	Tetrachloroethene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	3.5E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	3.4E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.3E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.20.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.3E-02	mg/kg	2.6E-11	mg/m^3	R	4.1E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.20.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	4.5E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.5E-08
	(Total)										5.5E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	3.9E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.7E-08
	(Total)										4.7E-08
										Total Risk Across All Exposure Routes/Pathways	1.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	1.0E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.0E-12
										Total Risk Across All Exposure Routes/Pathways	4.0E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Freon 11 (TCFM)	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	7.5E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.6E-07
										Total Risk Across All Exposure Routes/Pathways	2.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	2.0E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.4E-07
	(Total)										2.4E-07
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	8.4E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.0E-07
	(Total)										1.0E-07
										Total Risk Across All Exposure Routes/Pathways	3.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.1E-11
										Total Risk Across All Exposure Routes/Pathways	1.1E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Freon 11 (TCFM)	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	5.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	8.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.7E-06
										Total Risk Across All Exposure Routes/Pathways	1.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	4.8E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.8E-10
	(Total)										5.8E-10
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.9E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.2E-10
	(Total)										2.2E-10
										Total Risk Across All Exposure Routes/Pathways	8.0E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.3E-02	mg/kg	2.6E-11	mg/m^3	R	5.9E-15	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-14
										Total Risk Across All Exposure Routes/Pathways	2.3E-14

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.20.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-45
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	5.5E-08	--	4.7E-08	1.0E-07	Benzo(a)pyrene	--	--	--	--	--
			(Total)	5.5E-08	--	4.7E-08	1.0E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	4.0E-12	--	4.0E-12	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	4.0E-12	--	4.0E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	6.0E-06	--	6.0E-06
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	1.0E-04	--	1.0E-04
			Tetrachloroethene	--	2.6E-07	--	2.6E-07	Tetrachloroethene	Liver/Kidney	--	3.5E-03	--	3.5E-03
			(Total)	--	2.6E-07	--	2.6E-07	(Total)		--	3.6E-03	--	3.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.0E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.6E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.20.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	2.4E-07	--	1.0E-07	3.4E-07	Benzo(a)pyrene	--	--	--	--	--
			(Total)	2.4E-07	--	1.0E-07	3.4E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	1.1E-11	--	1.1E-11	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	1.1E-11	--	1.1E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	6.1E-05	--	6.1E-05
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	1.1E-03	--	1.1E-03
			Tetrachloroethene	--	1.7E-06	--	1.7E-06	Tetrachloroethene	Liver/Kidney	--	3.5E-02	--	3.5E-02
			(Total)	--	1.7E-06	--	1.7E-06	(Total)		--	3.7E-02	--	3.7E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.4E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.7E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.7E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.20.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	5.8E-10	--	2.2E-10	8.0E-10	Benzo(a)pyrene	--	--	--	--	--
			(Total)	5.8E-10	--	2.2E-10	8.0E-10	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	2.3E-14	--	2.3E-14	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	2.3E-14	--	2.3E-14	(Total)		--	--	--	--
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	8.0E-10					Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
						Total Risk for Indoor Air =	--					Total Hazard Index for Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-47	**EAPC No.:** 21

RME Exposure Scenario

TABLE 7.21.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.7E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.6E-03
	Ethylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	3.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.8E-04
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	6.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.2E-04
	Toluene	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	1.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.21.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	1.7E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.9E-02
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-01
	Cyclohexane	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	7.1E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.1E-03
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.7E-03
	Methyl Ethyl Ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.6E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.8E-03
	Methylene Chloride	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	8.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	7.4E-03
	Styrene	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	6.2E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.4E-03
	Tetrachloroethene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.6E-01
	Toluene	7.6E-02	mg/m^3	7.6E-02	mg/m^3	M	1.1E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-01
	Trichloroethene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.8E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-02
	Xylenes	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.21.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	6.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.8E-02
	Ethylbenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	9.4E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.6E-02
	Tetrachloroethene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.0E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E-02
	Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	1.7E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.21.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	9.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.8E-07
	Ethylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	2.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.7E-08
	Toluene	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	4.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.21.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	6.0E-03	mg/kg-day	--	--	--
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	6.7E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.7E-05
	Cyclohexane	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	2.5E-03	mg/kg-day	--	--	--
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.6E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	9.4E-04	mg/kg-day	--	--	--
	Methylene Chloride	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	3.0E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.1E-06
	Styrene	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	2.2E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.7E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-05
	Toluene	7.6E-02	mg/m^3	7.6E-02	mg/m^3	M	4.0E-03	mg/kg-day	--	--	--
	Trichloroethene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	9.9E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.9E-06
	Xylenes	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.1E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.21.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-05
	Ethylbenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.2E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.4E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.0E-07
	Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	4.0E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.21.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-47
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	9.8E-07	--	9.8E-07	Benzene	Blood	--	1.6E-03	--	1.6E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.8E-04	--	6.8E-04
			Tetrachloroethene	--	4.7E-08	--	4.7E-08	Tetrachloroethene	Liver/Kidney	--	6.2E-04	--	6.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-05	--	1.3E-05
			(Total)	--	1.0E-06	--	1.0E-06	(Total)		--	2.9E-03	--	2.9E-03
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.9E-02	--	5.9E-02
			Benzene	--	6.7E-05	--	6.7E-05	Benzene	Blood	--	1.1E-01	--	1.1E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.1E-03	--	4.1E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.7E-03	--	2.7E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.8E-03	--	1.8E-03
			Methylene Chloride	--	1.1E-06	--	1.1E-06	Methylene Chloride	Liver	--	7.4E-03	--	7.4E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.4E-03	--	2.4E-03
			Tetrachloroethene	--	1.2E-05	--	1.2E-05	Tetrachloroethene	Liver/Kidney	--	1.6E-01	--	1.6E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-01	--	1.3E-01
			Trichloroethene	--	6.9E-06	--	6.9E-06	Trichloroethene	CNS	--	1.6E-02	--	1.6E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-02	--	2.9E-02
			(Total)	--	8.7E-05	--	8.7E-05	(Total)		--	5.2E-01	--	5.2E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.9E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	8.7E-05	Total Hazard Index for Workplace Indoor Air =	5.2E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.21.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.5E-05	--	1.5E-05	Benzene	Blood	--	3.8E-02	--	3.8E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.6E-02	--	1.6E-02
			Tetrachloroethene	--	5.0E-07	--	5.0E-07	Tetrachloroethene	Liver/Kidney	--	1.0E-02	--	1.0E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.0E-04	--	2.0E-04
			(Total)	--	1.6E-05	--	1.6E-05	(Total)		--	6.5E-02	--	6.5E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.5E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-52	**EAPC No.:** 22

RME Exposure Scenario

TABLE 7.22.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	2.4E-08	mg/kg-day	6.0E-03	mg/kg-day	4.0E-06
	(Total)										4.0E-06
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	1.6E-08	mg/kg-day	6.0E-03	mg/kg-day	2.6E-06
	(Total)										2.6E-06
										Total Hazard Index Across All Exposure Routes/Pathways	6.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Trichloroethene	2.4E-02	mg/kg	3.8E-06	mg/m^3	R	5.6E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	5.4E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.2E-04
	Benzene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E-04
	Tetrachloroethene	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	4.4E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.4E-04
	Trichloroethene	2.2E-04	mg/m^3	2.2E-04	mg/m^3	M	3.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.9E-04
	Xylenes	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.5E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.6E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.3E-02
	Benzene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	4.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-01
	Cyclohexane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.2E-03
	Ethylbenzene	4.9E-02	mg/m^3	4.9E-02	mg/m^3	M	7.2E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.3E-02
	Methyl Ethyl Ketone	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	1.5E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.0E-03
	Methylene Chloride	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	5.6E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.9E-03
	Styrene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	4.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.9E-03
	Tetrachloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.7E-01
	Toluene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.3E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.7E-01
	Trichloroethene	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	6.1E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.6E-03
	Xylenes	2.1E-01	mg/m^3	2.1E-01	mg/m^3	M	3.1E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.6E-01
												Total Hazard Index Across All Exposure Routes/Pathways	9.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	3.1E-07	mg/kg-day	6.0E-03	mg/kg-day	5.2E-05
	(Total)										5.2E-05
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	8.7E-08	mg/kg-day	6.0E-03	mg/kg-day	1.4E-05
	(Total)										1.4E-05
										Total Hazard Index Across All Exposure Routes/Pathways	6.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Trichloroethene	2.4E-02	mg/kg	3.5E-06	mg/m^3	R	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	5.5E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.2E-03
	Benzene	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	3.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-03
	Tetrachloroethene	7.0E-05	mg/m^3	7.0E-05	mg/m^3	M	4.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.5E-03
	Trichloroethene	5.1E-04	mg/m^3	5.1E-04	mg/m^3	M	3.3E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.9E-03
	Xylenes	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	8.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	6.3E-09	mg/kg-day	6.0E-03	mg/kg-day	1.0E-06
	(Total)										1.0E-06
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	1.9E-09	mg/kg-day	6.0E-03	mg/kg-day	3.1E-07
	(Total)										3.1E-07
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.22.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Trichloroethene	2.4E-02	mg/kg	9.2E-06	mg/m^3	R	1.4E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.4E-07
												Total Hazard Index Across All Exposure Routes/Pathways	8.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.22.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	8.5E-09	mg/kg-day	1.3E-02	mg/kg-day $^{-1}$	1.1E-10
	(Total)										1.1E-10
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	5.6E-09	mg/kg-day	1.3E-02	mg/kg-day $^{-1}$	7.3E-11
	(Total)										7.3E-11
										Total Risk Across All Exposure Routes/Pathways	1.8E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	3.8E-06	mg/m^3	R	2.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.4E-09
										Total Risk Across All Exposure Routes/Pathways	1.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	1.9E-07	mg/kg-day	--	--	--
	Benzene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.3E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-07
	Tetrachloroethene	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	1.6E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.3E-08
	Trichloroethene	2.2E-04	mg/m^3	2.2E-04	mg/m^3	M	1.1E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.0E-08
	Xylenes	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.0E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Benzene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-04
	Cyclohexane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.2E-04	mg/kg-day	--	--	--
	Ethylbenzene	4.9E-02	mg/m^3	4.9E-02	mg/m^3	M	2.6E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	5.2E-04	mg/kg-day	--	--	--
	Methylene Chloride	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	2.0E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	7.0E-07
	Styrene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	1.8E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.2E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.3E-05
	Toluene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	8.2E-03	mg/kg-day	--	--	--
	Trichloroethene	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	2.2E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.5E-06
	Xylenes	2.1E-01	mg/m^3	2.1E-01	mg/m^3	M	1.1E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	3.8E-08	mg/kg-day	1.3E-02	mg/kg-day^{-1}	4.9E-10
	(Total)										4.9E-10
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	1.2E-08	mg/kg-day	1.3E-02	mg/kg-day^{-1}	1.6E-10
	(Total)										1.6E-10
										Total Risk Across All Exposure Routes/Pathways	6.5E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	3.5E-06	mg/m^3	R	5.2E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.6E-09
										Total Risk Across All Exposure Routes/Pathways	3.6E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Benzene	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	8.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.8E-07
	Tetrachloroethene	7.0E-05	mg/m^3	7.0E-05	mg/m^3	M	1.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.2E-07
	Trichloroethene	5.1E-04	mg/m^3	5.1E-04	mg/m^3	M	7.6E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.3E-07
	Xylenes	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.0E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	9.0E-11	mg/kg-day	1.3E-02	mg/kg-day $^{-1}$	1.2E-12
	(Total)										1.2E-12
Dermal	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	2.4E-02	mg/kg	M	2.7E-11	mg/kg-day	1.3E-02	mg/kg-day $^{-1}$	3.5E-13
	(Total)										3.5E-13
										Total Risk Across All Exposure Routes/Pathways	1.5E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Trichloroethene	2.4E-02	mg/kg	9.2E-06	mg/m^3	R	2.0E-09	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.4E-11
										Total Risk Across All Exposure Routes/Pathways	1.4E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.22.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-52
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Trichloroethene	1.1E-10	--	7.3E-11	1.8E-10	Trichloroethene	Liver	4.0E-06	--	2.6E-06	6.6E-06
			(Total)	1.1E-10	--	7.3E-11	1.8E-10	(Total)		4.0E-06	--	2.6E-06	6.6E-06
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Trichloroethene	--	1.4E-09	--	1.4E-09	Trichloroethene	CNS	--	3.3E-06	--	3.3E-06
			(Total)	--	1.4E-09	--	1.4E-09	(Total)		--	3.3E-06	--	3.3E-06
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.2E-04	--	3.2E-04
			Benzene	--	1.3E-07	--	1.3E-07	Benzene	Blood	--	2.1E-04	--	2.1E-04
			Tetrachloroethene	--	3.3E-08	--	3.3E-08	Tetrachloroethene	Liver/Kidney	--	4.4E-04	--	4.4E-04
			Trichloroethene	--	8.0E-08	--	8.0E-08	Trichloroethene	CNS	--	1.9E-04	--	1.9E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.3E-06	--	4.3E-06
			(Total)	--	2.4E-07	--	2.4E-07	(Total)		--	1.2E-03	--	1.2E-03
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.3E-02	--	1.3E-02
			Benzene	--	1.6E-04	--	1.6E-04	Benzene	Blood	--	2.6E-01	--	2.6E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.2E-03	--	1.2E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.3E-02	--	1.3E-02
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.0E-03	--	1.0E-03
			Methylene Chloride	--	7.0E-07	--	7.0E-07	Methylene Chloride	Liver	--	4.9E-03	--	4.9E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.9E-03	--	1.9E-03
			Tetrachloroethene	--	1.3E-05	--	1.3E-05	Tetrachloroethene	Liver/Kidney	--	1.7E-01	--	1.7E-01
			Toluene	--	--	--	--	Toluene	CNS	--	2.7E-01	--	2.7E-01
			Trichloroethene	--	1.5E-06	--	1.5E-06	Trichloroethene	CNS	--	3.6E-03	--	3.6E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.6E-01	--	1.6E-01
			(Total)	--	1.8E-04	--	1.8E-04	(Total)		--	9.0E-01	--	9.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	9.8E-06
Total Risk for Shallow Soil-to-Indoor Air =	2.4E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.8E-04	Total Hazard Index for Workplace Indoor Air =	9.0E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.22.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Trichloroethene	4.9E-10	--	1.6E-10	6.5E-10	Trichloroethene	Liver	5.2E-05	--	1.4E-05	6.6E-05
			(Total)	4.9E-10	--	1.6E-10	6.5E-10	(Total)		5.2E-05	--	1.4E-05	6.6E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Trichloroethene	--	3.6E-09	--	3.6E-09	Trichloroethene	CNS	--	1.3E-05	--	1.3E-05
			(Total)	--	3.6E-09	--	3.6E-09	(Total)		--	1.3E-05	--	1.3E-05
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.2E-03	--	3.2E-03
			Benzene	--	8.8E-07	--	8.8E-07	Benzene	Blood	--	2.2E-03	--	2.2E-03
			Tetrachloroethene	--	2.2E-07	--	2.2E-07	Tetrachloroethene	Liver/Kidney	--	4.5E-03	--	4.5E-03
			Trichloroethene	--	5.3E-07	--	5.3E-07	Trichloroethene	CNS	--	1.9E-03	--	1.9E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.4E-05	--	4.4E-05
			(Total)	--	1.6E-06	--	1.6E-06	(Total)		--	1.2E-02	--	1.2E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.3E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.9E-05
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.22.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Trench Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Trichloroethene	1.2E-12	--	3.5E-13	1.5E-12	Trichloroethene	Liver	1.0E-06	--	3.1E-07	1.4E-06
			(Total)	1.2E-12	--	3.5E-13	1.5E-12	(Total)		1.0E-06	--	3.1E-07	1.4E-06
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Trichloroethene	--	1.4E-11	--	1.4E-11	Trichloroethene	CNS	--	8.4E-07	--	8.4E-07
			(Total)	--	1.4E-11	--	1.4E-11	(Total)		--	8.4E-07	--	8.4E-07

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-11	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.2E-06
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-57	**EAPC No.:** 23

RME Exposure Scenario

TABLE 7.23.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.3E-05	mg/kg-day	4.0E-03	mg/kg-day	3.3E-03
	Ethylbenzene	5.8E+02	mg/kg	5.8E+02	mg/kg	M	5.6E-04	mg/kg-day	1.0E-01	mg/kg-day	5.6E-03
	Tetrachloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	2.7E-06	mg/kg-day	1.0E-02	mg/kg-day	2.7E-04
	Trichloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	2.7E-06	mg/kg-day	6.0E-03	mg/kg-day	4.5E-04
	(Total)										9.7E-03
Dermal	**VOCs**										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	8.7E-06	mg/kg-day	4.0E-03	mg/kg-day	2.2E-03
	Ethylbenzene	5.8E+02	mg/kg	5.8E+02	mg/kg	M	3.7E-04	mg/kg-day	1.0E-01	mg/kg-day	3.7E-03
	Tetrachloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.8E-06	mg/kg-day	1.0E-02	mg/kg-day	1.8E-04
	Trichloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.8E-06	mg/kg-day	6.0E-03	mg/kg-day	3.0E-04
	(Total)										6.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.4E+01	mg/kg	2.5E-03	mg/m^3	R	3.7E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E-02
	Ethylbenzene	5.8E+02	mg/kg	5.5E-02	mg/m^3	R	8.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-02
	Tetrachloroethene	2.8E+00	mg/kg	5.6E-04	mg/m^3	R	8.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.3E-03
	Trichloroethene	2.8E+00	mg/kg	4.3E-04	mg/m^3	R	6.3E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	4.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	5.7E-02	mg/m^3	5.7E-02	mg/m^3	M	8.4E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.9E-02
	1,2,4-Trimethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.0E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.8E-02
	1,3,5-Trimethylbenzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	3.6E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-02
	Acetone	6.8E-01	mg/m^3	6.8E-01	mg/m^3	M	1.0E-01	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.1E-01
	Benzene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	2.4E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E+00
	sec-Butylbenzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	5.4E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-04
	Chloroform	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.8E-02
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	1.8E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-01
	Styrene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.7E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.6E-04
	Tetrachloroethene	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	6.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.0E-01
	Toluene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.3E-02
	Trichloroethene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.6E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.1E-02
	Xylenes	6.8E-02	mg/m^3	6.8E-02	mg/m^3	M	9.9E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.9E-05	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.4E-04
	Benzene	4.5E-01	mg/m^3	4.5E-01	mg/m^3	M	6.6E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E+00
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.5E-04
	Ethylbenzene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	4.6E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.0E-04
	Styrene	8.4E-05	mg/m^3	8.4E-05	mg/m^3	M	1.2E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	4.8E-05
	Toluene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	4.0E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.7E-03
	Trichloroethene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	3.4E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	3.8E-03	mg/kg-day	4.0E-03	mg/kg-day	9.6E-01
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.5E-01	mg/kg-day	1.0E-01	mg/kg-day	1.5E+00
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	6.4E-04	mg/kg-day	1.0E-02	mg/kg-day	6.4E-02
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	6.4E-04	mg/kg-day	6.0E-03	mg/kg-day	1.1E-01
	(Total)										2.7E+00
Dermal	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	1.1E-03	mg/kg-day	4.0E-03	mg/kg-day	2.7E-01
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	4.3E-02	mg/kg-day	1.0E-01	mg/kg-day	4.3E-01
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.8E-04	mg/kg-day	1.0E-02	mg/kg-day	1.8E-02
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.8E-04	mg/kg-day	6.0E-03	mg/kg-day	3.0E-02
	(Total)										7.5E-01
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+02	mg/kg	5.1E-02	mg/m^3	R	3.2E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E+00
	Ethylbenzene	1.2E+04	mg/kg	1.0E+00	mg/m^3	R	6.7E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.2E+00
	Tetrachloroethene	5.0E+01	mg/kg	9.2E-03	mg/m^3	R	5.9E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.9E-01
	Trichloroethene	5.0E+01	mg/kg	7.1E-03	mg/m^3	R	4.6E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.4E+00	mg/m^3	2.4E+00	mg/m^3	M	1.6E+00	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.4E+00
	1,2,4-Trimethylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	3.9E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.3E-01
	1,3,5-Trimethylbenzene	5.8E-04	mg/m^3	5.8E-04	mg/m^3	M	3.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.2E-01
	Acetone	1.6E+00	mg/m^3	1.6E+00	mg/m^3	M	1.0E+00	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.1E+00
	Benzene	8.6E+00	mg/m^3	8.6E+00	mg/m^3	M	5.5E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.2E+02
	sec-Butylbenzene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	5.6E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-03
	Chloroform	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	9.5E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E+01
	Ethylbenzene	2.8E+00	mg/m^3	2.8E+00	mg/m^3	M	1.8E+00	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.2E+00
	Styrene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	3.7E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.4E-01
	Tetrachloroethene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	1.1E+00	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+02
	Toluene	6.7E-01	mg/m^3	6.7E-01	mg/m^3	M	4.3E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.0E+00
	Trichloroethene	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	6.7E-01	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.9E+00
	Xylenes	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	6.4E-01	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.2E+00
												Total Hazard Index Across All Exposure Routes/Pathways	4.7E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	1.0E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.9E-03
	Benzene	2.9E+00	mg/m^3	2.9E+00	mg/m^3	M	1.8E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E+02
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.3E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-02
	Ethylbenzene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	2.0E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.4E-02
	Styrene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	2.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-03
	Toluene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.3E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-01
	Trichloroethene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	7.7E-05	mg/kg-day	4.0E-03	mg/kg-day	1.9E-02
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	3.1E-03	mg/kg-day	1.0E-01	mg/kg-day	3.1E-02
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.3E-05	mg/kg-day	1.0E-02	mg/kg-day	1.3E-03
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.3E-05	mg/kg-day	6.0E-03	mg/kg-day	2.2E-03
	(Total)										5.4E-02
Dermal	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	2.3E-05	mg/kg-day	4.0E-03	mg/kg-day	5.8E-03
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	9.3E-04	mg/kg-day	1.0E-01	mg/kg-day	9.3E-03
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	3.9E-06	mg/kg-day	1.0E-02	mg/kg-day	3.9E-04
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	3.9E-06	mg/kg-day	6.0E-03	mg/kg-day	6.5E-04
	(Total)										1.6E-02
										Total Hazard Index Across All Exposure Routes/Pathways	7.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.23.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+02	mg/kg	1.3E-01	mg/m^3	R	2.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-01
	Ethylbenzene	1.2E+04	mg/kg	2.8E+00	mg/m^3	R	4.3E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.6E-02
	Tetrachloroethene	5.0E+01	mg/kg	2.4E-02	mg/m^3	R	3.8E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.8E-02
	Trichloroethene	5.0E+01	mg/kg	1.9E-02	mg/m^3	R	3.0E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.23.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.7E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.7E-07
	Ethylbenzene	5.8E+02	mg/kg	5.8E+02	mg/kg	M	2.0E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	9.7E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	5.2E-07
	Trichloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	9.6E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.3E-08
	(Total)										1.0E-06
Dermal	**VOCs**										
	Benzene	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.1E-07
	Ethylbenzene	5.8E+02	mg/kg	5.8E+02	mg/kg	M	1.3E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	6.4E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	3.5E-07
	Trichloroethene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	6.4E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	8.3E-09
	(Total)										6.7E-07
										Total Risk Across All Exposure Routes/Pathways	1.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.4E+01	mg/kg	2.5E-03	mg/m^3	R	1.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-05
	Ethylbenzene	5.8E+02	mg/kg	5.5E-02	mg/m^3	R	2.9E-03	mg/kg-day	--	--	--
	Tetrachloroethene	2.8E+00	mg/kg	5.6E-04	mg/m^3	R	2.9E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.2E-07
	Trichloroethene	2.8E+00	mg/kg	4.3E-04	mg/m^3	R	2.3E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.6E-07
										Total Risk Across All Exposure Routes/Pathways	1.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	5.7E-02	mg/m^3	5.7E-02	mg/m^3	M	3.0E-03	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Acetone	6.8E-01	mg/m^3	6.8E-01	mg/m^3	M	3.6E-02	mg/kg-day	--	--	--
	Benzene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	8.7E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.7E-04
	sec-Butylbenzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Chloroform	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.9E-05
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	6.3E-02	mg/kg-day	--	--	--
	Styrene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	6.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	2.1E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.5E-05
	Toluene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.2E-04	mg/kg-day	--	--	--
	Trichloroethene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	9.0E-06
	Xylenes	6.8E-02	mg/m^3	6.8E-02	mg/m^3	M	3.5E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.4E-05	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	9.9E-07
	Benzene	4.5E-01	mg/m^3	4.5E-01	mg/m^3	M	2.4E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-03
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.4E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.6E-07
	Ethylbenzene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
	Styrene	8.4E-05	mg/m^3	8.4E-05	mg/m^3	M	4.4E-06	mg/kg-day	--	--	--
	Toluene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
	Trichloroethene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	1.2E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.6E-08
										Total Risk Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	8.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.4E-05
										Total Risk Across All Exposure Routes/Pathways	8.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	4.7E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.7E-05
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.9E-02	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	7.8E-05	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	4.2E-05
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	7.8E-05	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.0E-06
	(Total)										9.0E-05
Dermal	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	1.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-05
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	5.9E-03	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	2.5E-05	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.3E-05
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	2.5E-05	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	3.2E-07
	(Total)										2.8E-05
										Total Risk Across All Exposure Routes/Pathways	1.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+02	mg/kg	5.1E-02	mg/m^3	R	7.5E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.5E-04
	Ethylbenzene	1.2E+04	mg/kg	1.0E+00	mg/m^3	R	1.6E-01	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	9.2E-03	mg/m^3	R	1.4E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.9E-05
	Trichloroethene	5.0E+01	mg/kg	7.1E-03	mg/m^3	R	1.1E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.4E-06
										Total Risk Across All Exposure Routes/Pathways	7.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.4E+00	mg/m^3	2.4E+00	mg/m^3	M	3.6E-01	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	9.0E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	5.8E-04	mg/m^3	5.8E-04	mg/m^3	M	8.6E-05	mg/kg-day	--	--	--
	Acetone	1.6E+00	mg/m^3	1.6E+00	mg/m^3	M	2.4E-01	mg/kg-day	--	--	--
	Benzene	8.6E+00	mg/m^3	8.6E+00	mg/m^3	M	1.3E+00	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-01
	sec-Butylbenzene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Chloroform	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	2.2E-01	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.2E-03
	Ethylbenzene	2.8E+00	mg/m^3	2.8E+00	mg/m^3	M	4.2E-01	mg/kg-day	--	--	--
	Styrene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	8.6E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	2.5E-01	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-03
	Toluene	6.7E-01	mg/m^3	6.7E-01	mg/m^3	M	1.0E-01	mg/kg-day	--	--	--
	Trichloroethene	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	1.6E-01	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-03
	Xylenes	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	1.5E-01	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.4E-04	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	1.7E-05
	Benzene	2.9E+00	mg/m^3	2.9E+00	mg/m^3	M	4.2E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.2E-02
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	5.8E-06
	Ethylbenzene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	4.6E-03	mg/kg-day	--	--	--
	Styrene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	6.7E-05	mg/kg-day	--	--	--
	Toluene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	2.9E-03	mg/kg-day	--	--	--
	Trichloroethene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-06
										Total Risk Across All Exposure Routes/Pathways	4.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	1.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-07
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	4.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.8E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.0E-07
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.8E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	2.4E-09
	(Total)										2.1E-07
Dermal	**VOCs**										
	Benzene	3.0E+02	mg/kg	3.0E+02	mg/kg	M	3.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.3E-08
	Ethylbenzene	1.2E+04	mg/kg	1.2E+04	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	5.5E-08	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	3.0E-08
	Trichloroethene	5.0E+01	mg/kg	5.0E+01	mg/kg	M	5.5E-08	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	7.2E-10
	(Total)										6.4E-08
										Total Risk Across All Exposure Routes/Pathways	2.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+02	mg/kg	1.3E-01	mg/m^3	R	3.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-06
	Ethylbenzene	1.2E+04	mg/kg	2.8E+00	mg/m^3	R	6.2E-04	mg/kg-day	--	--	--
	Tetrachloroethene	5.0E+01	mg/kg	2.4E-02	mg/m^3	R	5.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-07
	Trichloroethene	5.0E+01	mg/kg	1.9E-02	mg/m^3	R	4.2E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.0E-08
										Total Risk Across All Exposure Routes/Pathways	3.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.23.1.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.7E-07	--	3.1E-07	7.8E-07	Benzene	Blood	3.3E-03	--	2.2E-03	5.5E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	5.6E-03	--	3.7E-03	9.4E-03
			Tetrachloroethene	5.2E-07	--	3.5E-07	8.7E-07	Tetrachloroethene	Liver	2.7E-04	--	1.8E-04	4.5E-04
			Trichloroethene	1.3E-08	--	8.3E-09	2.1E-08	Trichloroethene	Liver	4.5E-04	--	3.0E-04	7.5E-04
			(Total)	1.0E-06	--	6.7E-07	1.7E-06	(Total)		9.7E-03	--	6.4E-03	1.6E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.3E-05	--	1.3E-05	Benzene	Blood	--	2.1E-02	--	2.1E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-02	--	1.4E-02
			Tetrachloroethene	--	6.2E-07	--	6.2E-07	Tetrachloroethene	Liver/Kidney	--	8.3E-03	--	8.3E-03
			Trichloroethene	--	1.6E-07	--	1.6E-07	Trichloroethene	CNS	--	3.7E-04	--	3.7E-04
			(Total)	--	1.4E-05	--	1.4E-05	(Total)		--	4.4E-02	--	4.4E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.9E-02	--	2.9E-02
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.8E-02	--	1.8E-02
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.1E-02	--	2.1E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	1.1E-01	--	1.1E-01
			Benzene	--	8.7E-04	--	8.7E-04	Benzene	Blood	--	1.4E+00	--	1.4E+00
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-04	--	1.4E-04
			Chloroform	--	3.9E-05	--	3.9E-05	Chloroform	Kidney	--	6.8E-02	--	6.8E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-01	--	3.1E-01
			Styrene	--	--	--	--	Styrene	CNS	--	6.6E-04	--	6.6E-04
			Tetrachloroethene	--	4.5E-05	--	4.5E-05	Tetrachloroethene	Liver/Kidney	--	6.0E-01	--	6.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	2.3E-02	--	2.3E-02
			Trichloroethene	--	9.0E-06	--	9.0E-06	Trichloroethene	CNS	--	2.1E-02	--	2.1E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.0E-02	--	5.0E-02
			(Total)	--	9.6E-04	--	9.6E-04	(Total)		--	2.7E+00	--	2.7E+00

TABLE 9.23.1.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future

Receptor Population: Commercial Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2-Dichloroethane	--	9.9E-07	--	9.9E-07	1,2-Dichloroethane	Liver	--	3.4E-04	--	3.4E-04
		Using the J&E Model	Benzene	--	2.4E-03	--	2.4E-03	Benzene	Blood	--	3.9E+00	--	3.9E+00
			Chloroform	--	2.6E-07	--	2.6E-07	Chloroform	Kidney	--	4.5E-04	--	4.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.0E-04	--	8.0E-04
			Styrene	--	--	--	--	Styrene	CNS	--	4.8E-05	--	4.8E-05
			Toluene	--	--	--	--	Toluene	CNS	--	4.7E-03	--	4.7E-03
			Trichloroethene	--	8.6E-08	--	8.6E-08	Trichloroethene	CNS	--	2.0E-04	--	2.0E-04
			(Total)	--	2.4E-03	--	2.4E-03	(Total)		--	3.9E+00	--	3.9E+00
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	8.4E-05	--	8.4E-05	Benzene	Blood	--	1.4E-01	--	1.4E-01
			(Total)	--	8.4E-05	--	8.4E-05	(Total)		--	1.4E-01	--	1.4E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.0E-02
Total Risk for Shallow Soil-to-Indoor Air =	9.6E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.7E+00
Total Risk for Deep Soil-to-Indoor Air =	2.4E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	3.9E+00
Total Risk for Workplace Indoor Air =	8.4E-05	Total Hazard Index for Workplace Indoor Air =	1.4E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.23.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.7E-05	--	1.5E-05	6.2E-05	Benzene	Blood	9.6E-01	--	2.7E-01	1.2E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	1.5E+00	--	4.3E-01	2.0E+00
			Tetrachloroethene	4.2E-05	--	1.3E-05	5.6E-05	Tetrachloroethene	Liver	6.4E-02	--	1.8E-02	8.2E-02
			Trichloroethene	1.0E-06	--	3.2E-07	1.3E-06	Trichloroethene	Liver	1.1E-01	--	3.0E-02	1.4E-01
			(Total)	9.0E-05	--	2.8E-05	1.2E-04	(Total)		2.7E+00	--	7.5E-01	3.4E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	7.5E-04	--	7.5E-04	Benzene	Blood	--	1.9E+00	--	1.9E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.2E+00	--	1.2E+00
			Tetrachloroethene	--	2.9E-05	--	2.9E-05	Tetrachloroethene	Liver/Kidney	--	5.9E-01	--	5.9E-01
			Trichloroethene	--	7.4E-06	--	7.4E-06	Trichloroethene	CNS	--	2.7E-02	--	2.7E-02
			(Total)	--	7.9E-04	--	7.9E-04	(Total)		--	3.7E+00	--	3.7E+00
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.4E+00	--	5.4E+00
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.3E-01	--	2.3E-01
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.2E-01	--	2.2E-01
			Acetone	--	--	--	--	Acetone	Kidney	--	1.1E+00	--	1.1E+00
			Benzene	--	1.3E-01	--	1.3E-01	Benzene	Blood	--	3.2E+02	--	3.2E+02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-03	--	1.4E-03
			Chloroform	--	4.2E-03	--	4.2E-03	Chloroform	Kidney	--	1.1E+01	--	1.1E+01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.2E+00	--	3.2E+00
			Styrene	--	--	--	--	Styrene	CNS	--	1.4E-01	--	1.4E-01
			Tetrachloroethene	--	5.3E-03	--	5.3E-03	Tetrachloroethene	Liver/Kidney	--	1.1E+02	--	1.1E+02
			Toluene	--	--	--	--	Toluene	CNS	--	5.0E+00	--	5.0E+00
			Trichloroethene	--	1.1E-03	--	1.1E-03	Trichloroethene	CNS	--	3.9E+00	--	3.9E+00
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.2E+00	--	3.2E+00
			(Total)	--	1.4E-01	--	1.4E-01	(Total)		--	4.7E+02	--	4.7E+02

TABLE 9.23.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2-Dichloroethane	--	1.7E-05	--	1.7E-05	1,2-Dichloroethane	Liver	--	8.9E-03	--	8.9E-03
		Using the J&E Model	Benzene	--	4.2E-02	--	4.2E-02	Benzene	Blood	--	1.1E+02	--	1.1E+02
			Chloroform	--	5.8E-06	--	5.8E-06	Chloroform	Kidney	--	1.5E-02	--	1.5E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.4E-02	--	3.4E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-03	--	1.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-01	--	1.5E-01
			Trichloroethene	--	2.4E-06	--	2.4E-06	Trichloroethene	CNS	--	8.4E-03	--	8.4E-03
			(Total)	--	4.2E-02	--	4.2E-02	(Total)		--	1.1E+02	--	1.1E+02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.1E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.1E+00
Total Risk for Shallow Soil-to-Indoor Air =	1.4E-01	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.7E+02
Total Risk for Deep Soil-to-Indoor Air =	4.2E-02	Total Hazard Index for Deep Soil-to-Indoor Air =	1.1E+02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.23.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Trench Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.1E-07	--	3.3E-08	1.4E-07	Benzene	Blood	1.9E-02	--	5.8E-03	2.5E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	3.1E-02	--	9.3E-03	4.0E-02
			Tetrachloroethene	1.0E-07	--	3.0E-08	1.3E-07	Tetrachloroethene	Liver	1.3E-03	--	3.9E-04	1.7E-03
			Trichloroethene	2.4E-09	--	7.2E-10	3.1E-09	Trichloroethene	Liver	2.2E-03	--	6.5E-04	2.8E-03
			(Total)	2.1E-07	--	6.4E-08	2.8E-07	(Total)		5.4E-02	--	1.6E-02	7.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	3.0E-06	--	3.0E-06	Benzene	Blood	--	1.2E-01	--	1.2E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.6E-02	--	7.6E-02
			Tetrachloroethene	--	1.1E-07	--	1.1E-07	Tetrachloroethene	Liver/Kidney	--	3.8E-02	--	3.8E-02
			Trichloroethene	--	3.0E-08	--	3.0E-08	Trichloroethene	CNS	--	1.7E-03	--	1.7E-03
			(Total)	--	3.1E-06	--	3.1E-06	(Total)		--	2.4E-01	--	2.4E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.4E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.1E-01
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-58	**EAPC No.:** 24

RME Exposure Scenario

TABLE 7.24.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	4.9E-06	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	2.3E+00	mg/kg	2.3E+00	mg/kg	M	2.2E-06	mg/kg-day	6.0E-03	mg/kg-day	3.7E-04
	(Total)										3.7E-04
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	4.2E-06	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	2.3E+00	mg/kg	2.3E+00	mg/kg	M	1.5E-06	mg/kg-day	6.0E-03	mg/kg-day	2.5E-04
	(Total)										2.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	5.0E+00	mg/kg	7.5E-09	mg/m^3	R	1.1E-09	mg/kg-day	--	--	--	--	--
	VOCs												
	Trichloroethene	2.3E+00	mg/kg	3.6E-04	mg/m^3	R	5.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	3.0E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.8E-04
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.8E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-04
	Benzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-01
	Ethylbenzene	5.9E-02	mg/m^3	5.9E-02	mg/m^3	M	8.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-02
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	4.9E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.9E-01
	Trichloroethene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	3.0E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-02
	Xylenes	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	6.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.9E+00	mg/m^3	4.9E+00	mg/m^3	M	7.2E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.2E+01
	Methylene Chloride	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	9.8E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.5E-02
	Toluene	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	5.4E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.3E-01
												Total Hazard Index Across All Exposure Routes/Pathways	4.3E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	6.4E-05	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	6.4E-05	mg/kg-day	6.0E-03	mg/kg-day	1.1E-02
	(Total)										1.1E-02
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	2.3E-05	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.8E-05	mg/kg-day	6.0E-03	mg/kg-day	3.0E-03
	(Total)										3.0E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	5.0E+00	mg/kg	7.5E-09	mg/m^3	R	4.8E-09	mg/kg-day	--	--	--	--	--
	VOCs												
	Trichloroethene	5.0E+00	mg/kg	7.1E-04	mg/m^3	R	4.6E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	1,3,5-Trimethylbenzene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	1.8E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-03
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	9.2E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.4E+00
	Ethylbenzene	5.9E-01	mg/m^3	5.9E-01	mg/m^3	M	3.7E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.6E-01
	Tetrachloroethene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	1.1E-01	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+01
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	6.7E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.9E-01
	Xylenes	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	6.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E+01	mg/m^3	1.1E+01	mg/m^3	M	7.3E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E+02
	Methylene Chloride	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.0E-01	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.7E-01
	Toluene	9.4E-01	mg/m^3	9.4E-01	mg/m^3	M	6.0E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.0E+00
												Total Hazard Index Across All Exposure Routes/Pathways	4.4E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.3E-06	mg/kg-day	6.0E-03	mg/kg-day	2.2E-04
	(Total)										2.2E-04
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	5.0E-07	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	3.9E-07	mg/kg-day	6.0E-03	mg/kg-day	6.5E-05
	(Total)										6.5E-05
										Total Hazard Index Across All Exposure Routes/Pathways	2.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.24.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	5.0E+00	mg/kg	1.0E-08	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	VOCs												
	Trichloroethene	5.0E+00	mg/kg	1.9E-03	mg/m^3	R	3.0E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.24.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.7E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.1E-05
	VOCs										
	Trichloroethene	2.3E+00	mg/kg	2.3E+00	mg/kg	M	8.0E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.0E-08
	(Total)										2.1E-05
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.5E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.8E-05
	VOCs										
	Trichloroethene	2.3E+00	mg/kg	2.3E+00	mg/kg	M	5.3E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	6.8E-09
	(Total)										1.8E-05
										Total Risk Across All Exposure Routes/Pathways	3.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	7.5E-09	mg/m^3	R	3.9E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.5E-09
	VOCs										
	Trichloroethene	2.3E+00	mg/kg	3.6E-04	mg/m^3	R	1.9E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.3E-07
										Total Risk Across All Exposure Routes/Pathways	1.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	6.5E-08	mg/kg-day	--	--	--
	Benzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	7.7E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.7E-05
	Ethylbenzene	5.9E-02	mg/m^3	5.9E-02	mg/m^3	M	3.1E-03	mg/kg-day	--	--	--
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	1.7E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.7E-05
	Trichloroethene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.1E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.5E-06
	Xylenes	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	7.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.9E+00	mg/m^3	4.9E+00	mg/m^3	M	2.6E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-02
	Methylene Chloride	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	3.5E-03	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.2E-05
	Toluene	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	1.9E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	7.8E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.4E-05
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	7.8E-06	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.0E-07
	(Total)										9.4E-05
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	3.2E-06	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.9E-05
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	2.5E-06	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	3.2E-08
	(Total)										3.9E-05
										Total Risk Across All Exposure Routes/Pathways	1.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	7.5E-09	mg/m^3	R	1.1E-09	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.4E-09
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	7.1E-04	mg/m^3	R	1.1E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.4E-07
										Total Risk Across All Exposure Routes/Pathways	7.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	4.3E-07	mg/kg-day	--	--	--
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	2.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-03
	Ethylbenzene	5.9E-01	mg/m^3	5.9E-01	mg/m^3	M	8.7E-02	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	2.5E-02	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-04
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.6E-02	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-04
	Xylenes	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E+01	mg/m^3	1.1E+01	mg/m^3	M	1.7E+00	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-01
	Methylene Chloride	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.3E-02	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	8.1E-05
	Toluene	9.4E-01	mg/m^3	9.4E-01	mg/m^3	M	1.4E-01	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.8E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.2E-07
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	1.8E-08	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	2.4E-10
	(Total)										2.2E-07
Dermal	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	7.2E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.6E-08
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	5.0E+00	mg/kg	M	5.5E-09	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	7.2E-11
	(Total)										8.6E-08
										Total Risk Across All Exposure Routes/Pathways	3.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	5.0E+00	mg/kg	1.0E-08	mg/m^3	R	2.3E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.8E-12
	VOCs										
	Trichloroethene	5.0E+00	mg/kg	1.9E-03	mg/m^3	R	4.2E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.0E-09
										Total Risk Across All Exposure Routes/Pathways	3.0E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.24.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	2.1E-05	--	1.8E-05	3.9E-05	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	1.0E-08	--	6.8E-09	1.7E-08	Trichloroethene	Liver	3.7E-04	--	2.5E-04	6.2E-04
			(Total)	2.1E-05	--	1.8E-05	3.9E-05	(Total)		3.7E-04	--	2.5E-04	6.2E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	1.5E-09	--	1.5E-09	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	--	1.3E-07	--	1.3E-07	Trichloroethene	CNS	--	3.1E-04	--	3.1E-04
			(Total)	--	1.3E-07	--	1.3E-07	(Total)		--	3.1E-04	--	3.1E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.8E-04	--	1.8E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.1E-04	--	1.1E-04
			Benzene	--	7.7E-05	--	7.7E-05	Benzene	Blood	--	1.3E-01	--	1.3E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-02	--	1.5E-02
			Tetrachloroethene	--	3.7E-05	--	3.7E-05	Tetrachloroethene	Liver/Kidney	--	4.9E-01	--	4.9E-01
			Trichloroethene	--	7.5E-06	--	7.5E-06	Trichloroethene	CNS	--	1.7E-02	--	1.7E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.0E-02	--	1.0E-02
			(Total)	--	1.2E-04	--	1.2E-04	(Total)		--	6.6E-01	--	6.6E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.6E-02	--	2.6E-02	Benzene	Blood	--	4.2E+01	--	4.2E+01
			Methylene Chloride	--	1.2E-05	--	1.2E-05	Methylene Chloride	Liver	--	8.5E-02	--	8.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	6.3E-01	--	6.3E-01
			(Total)	--	2.6E-02	--	2.6E-02	(Total)		--	4.3E+01	--	4.3E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.9E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	9.2E-04
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.6E-01
Total Risk for Deep Soil-to-Indoor Air =	2.6E-02	Total Hazard Index for Deep Soil-to-Indoor Air =	4.3E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.24.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	9.4E-05	--	3.9E-05	1.3E-04	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	1.0E-07	--	3.2E-08	1.3E-07	Trichloroethene	Liver	1.1E-02	--	3.0E-03	1.4E-02
			(Total)	9.4E-05	--	3.9E-05	1.3E-04	(Total)		1.1E-02	--	3.0E-03	1.4E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	4.4E-09	--	4.4E-09	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	--	7.4E-07	--	7.4E-07	Trichloroethene	CNS	--	2.7E-03	--	2.7E-03
			(Total)	--	7.5E-07	--	7.5E-07	(Total)		--	2.7E-03	--	2.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.1E-03	--	1.1E-03
			Benzene	--	2.1E-03	--	2.1E-03	Benzene	Blood	--	5.4E+00	--	5.4E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.6E-01	--	6.6E-01
			Tetrachloroethene	--	5.3E-04	--	5.3E-04	Tetrachloroethene	Liver/Kidney	--	1.1E+01	--	1.1E+01
			Trichloroethene	--	1.1E-04	--	1.1E-04	Trichloroethene	CNS	--	3.9E-01	--	3.9E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.2E-01	--	3.2E-01
			(Total)	--	2.8E-03	--	2.8E-03	(Total)		--	1.8E+01	--	1.8E+01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.7E-01	--	1.7E-01	Benzene	Blood	--	4.3E+02	--	4.3E+02
			Methylene Chloride	--	8.1E-05	--	8.1E-05	Methylene Chloride	Liver	--	8.7E-01	--	8.7E-01
			Toluene	--	--	--	--	Toluene	CNS	--	7.0E+00	--	7.0E+00
			(Total)	--	1.7E-01	--	1.7E-01	(Total)		--	4.4E+02	--	4.4E+02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.3E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.6E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.8E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.8E+01
Total Risk for Deep Soil-to-Indoor Air =	1.7E-01	Total Hazard Index for Deep Soil-to-Indoor Air =	4.4E+02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.24.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	2.2E-07	--	8.6E-08	3.1E-07	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	2.4E-10	--	7.2E-11	3.1E-10	Trichloroethene	Liver	2.2E-04	--	6.5E-05	2.8E-04
			(Total)	2.2E-07	--	8.6E-08	3.1E-07	(Total)		2.2E-04	--	6.5E-05	2.8E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	8.8E-12	--	8.8E-12	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	--	3.0E-09	--	3.0E-09	Trichloroethene	CNS	--	1.7E-04	--	1.7E-04
			(Total)	--	3.0E-09	--	3.0E-09	(Total)		--	1.7E-04	--	1.7E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.5E-04
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-66	**EAPC No.:** 25

RME Exposure Scenario

TABLE 7.25.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-66
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.7E-07	mg/m^3	3.7E-07	mg/m^3	M	5.4E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.2E-05
	Carbon Tetrachloride	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	2.4E-07	mg/kg-day	1.1E-02	mg/kg-day	4.0E-02	mg/m3	2.1E-05
	Chloroform	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	3.9E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.6E-06
	Tetrachloroethene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	1.1E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	6.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.25.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-66
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	3.3E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.2E-02
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-01
	Cyclohexane	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	3.1E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.8E-03
	Ethylbenzene	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	1.1E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.9E-02
	Methyl Ethyl Ketone	8.0E-02	mg/m^3	8.0E-02	mg/m^3	M	1.2E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	8.2E-03
	Methylene Chloride	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.1E-02
	Styrene	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	8.0E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.1E-02
	Tetrachloroethene	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	8.0E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.0E-02
	Toluene	5.4E-02	mg/m^3	5.4E-02	mg/m^3	M	8.0E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.3E-02
	Trichloroethene	6.3E-03	mg/m^3	6.3E-03	mg/m^3	M	9.2E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.4E-03
	Xylenes	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	2.6E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.3E-01
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.25.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-66
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	8.6E-07	mg/m^3	8.6E-07	mg/m^3	M	5.5E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.2E-04
	Carbon Tetrachloride	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	2.4E-06	mg/kg-day	1.1E-02	mg/kg-day	4.0E-02	mg/m3	2.1E-04
	Chloroform	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	4.0E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.7E-05
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	1.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.25.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.7E-07	mg/m^3	3.7E-07	mg/m^3	M	1.9E-08	mg/kg-day	--	--	--
	Carbon Tetrachloride	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	8.4E-08	mg/kg-day	1.5E-01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Chloroform	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	1.4E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.7E-09
	Tetrachloroethene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	4.0E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.4E-10
										Total Risk Across All Exposure Routes/Pathways	1.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.25.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	1.2E-03	mg/kg-day	--	--	--
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	7.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.0E-05
	Cyclohexane	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Ethylbenzene	7.4E-02	mg/m^3	7.4E-02	mg/m^3	M	3.9E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	8.0E-02	mg/m^3	8.0E-02	mg/m^3	M	4.2E-03	mg/kg-day	--	--	--
	Methylene Chloride	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	8.4E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.9E-06
	Styrene	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	2.9E-03	mg/kg-day	--	--	--
	Tetrachloroethene	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	2.9E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.0E-06
	Toluene	5.4E-02	mg/m^3	5.4E-02	mg/m^3	M	2.8E-03	mg/kg-day	--	--	--
	Trichloroethene	6.3E-03	mg/m^3	6.3E-03	mg/m^3	M	3.3E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.3E-06
	Xylenes	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	9.3E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.25.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	8.6E-07	mg/m^3	8.6E-07	mg/m^3	M	1.3E-07	mg/kg-day	--	--	--
	Carbon Tetrachloride	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	5.6E-07	mg/kg-day	1.5E-01	$mg/kg\text{-}day^{-1}$	8.4E-08
	Chloroform	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	9.3E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.8E-08
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	2.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.6E-09
										Total Risk Across All Exposure Routes/Pathways	1.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.25.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-66
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.2E-05	--	3.2E-05
			Carbon Tetrachloride	--	1.3E-08	--	1.3E-08	Carbon Tetrachloride	Developmental	--	2.1E-05	--	2.1E-05
			Chloroform	--	2.7E-09	--	2.7E-09	Chloroform	Kidney	--	4.6E-06	--	4.6E-06
			Tetrachloroethene	--	8.4E-10	--	8.4E-10	Tetrachloroethene	Liver/Kidney	--	1.1E-05	--	1.1E-05
			(Total)	--	1.6E-08	--	1.6E-08	(Total)		--	6.8E-05	--	6.8E-05
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.2E-02	--	1.2E-02
			Benzene	--	7.0E-05	--	7.0E-05	Benzene	Blood	--	1.1E-01	--	1.1E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.8E-03	--	1.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.9E-02	--	1.9E-02
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	8.2E-03	--	8.2E-03
			Methylene Chloride	--	2.9E-06	--	2.9E-06	Methylene Chloride	Liver	--	2.1E-02	--	2.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	3.1E-02	--	3.1E-02
			Tetrachloroethene	--	6.0E-06	--	6.0E-06	Tetrachloroethene	Liver/Kidney	--	8.0E-02	--	8.0E-02
			Toluene	--	--	--	--	Toluene	CNS	--	9.3E-02	--	9.3E-02
			Trichloroethene	--	2.3E-06	--	2.3E-06	Trichloroethene	CNS	--	5.4E-03	--	5.4E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.3E-01	--	1.3E-01
			(Total)	--	8.1E-05	--	8.1E-05	(Total)		--	5.2E-01	--	5.2E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.8E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	8.1E-05	Total Hazard Index for Workplace Indoor Air =	5.2E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.25.2.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.2E-04	--	3.2E-04
			Carbon Tetrachloride	--	8.4E-08	--	8.4E-08	Carbon Tetrachloride	Developmental	--	2.1E-04	--	2.1E-04
			Chloroform	--	1.8E-08	--	1.8E-08	Chloroform	Kidney	--	4.7E-05	--	4.7E-05
			Tetrachloroethene	--	5.6E-09	--	5.6E-09	Tetrachloroethene	Liver/Kidney	--	1.2E-04	--	1.2E-04
			(Total)	--	1.1E-07	--	1.1E-07	(Total)		--	6.9E-04	--	6.9E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.9E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-67	**EAPC No.:** 26

RME Exposure Scenario

TABLE 7.26.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-67
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	4.2E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.9E-06
	Dichlorobromomethane	2.0E-07	mg/m^3	2.0E-07	mg/m^3	M	2.9E-08	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	1.4E-06
	Tetrachloroethene	9.0E-10	mg/m^3	9.0E-10	mg/m^3	M	1.3E-10	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.3E-08
												Total Hazard Index Across All Exposure Routes/Pathways	6.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.26.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-67
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	6.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.6E-05
	Dichlorobromomethane	4.6E-07	mg/m^3	4.6E-07	mg/m^3	M	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	1.5E-05
	Tetrachloroethene	2.1E-09	mg/m^3	2.1E-09	mg/m^3	M	1.4E-09	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E-07
												Total Hazard Index Across All Exposure Routes/Pathways	9.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.26.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-67

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	1.5E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.9E-09
	Dichlorobromomethane	2.0E-07	mg/m^3	2.0E-07	mg/m^3	M	1.0E-08	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	1.3E-09
	Tetrachloroethene	9.0E-10	mg/m^3	9.0E-10	mg/m^3	M	4.7E-11	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	9.9E-13
										Total Risk Across All Exposure Routes/Pathways	4.2E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.26.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-67

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	1.5E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.9E-08
	Dichlorobromomethane	4.6E-07	mg/m^3	4.6E-07	mg/m^3	M	6.9E-08	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	8.9E-09
	Tetrachloroethene	2.1E-09	mg/m^3	2.1E-09	mg/m^3	M	3.2E-10	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.6E-12
										Total Risk Across All Exposure Routes/Pathways	3.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.26.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-67
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	2.9E-09	--	2.9E-09	Chloroform	Kidney	--	4.9E-06	--	4.9E-06
			Dichlorobromomethane	--	1.3E-09	--	1.3E-09	Dichlorobromomethane	Kidney	--	1.4E-06	--	1.4E-06
			Tetrachloroethene	--	9.9E-13	--	9.9E-13	Tetrachloroethene	Liver/Kidney	--	1.3E-08	--	1.3E-08
			(Total)	--	4.2E-09	--	4.2E-09	(Total)		--	6.4E-06	--	6.4E-06
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	--					Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
						Total Risk for Shallow Soil-to-Indoor Air =	4.2E-09					Total Hazard Index for Shallow Soil-to-Indoor Air =	6.4E-06
						Total Risk for Deep Soil-to-Indoor Air =	--					Total Hazard Index for Deep Soil-to-Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.26.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-67
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	2.9E-08	--	2.9E-08	Chloroform	Kidney	--	7.6E-05	--	7.6E-05
			Dichlorobromomethane	--	8.9E-09	--	8.9E-09	Dichlorobromomethane	Kidney	--	1.5E-05	--	1.5E-05
			Tetrachloroethene	--	6.6E-12	--	6.6E-12	Tetrachloroethene	Liver/Kidney	--	1.4E-07	--	1.4E-07
			(Total)	--	3.8E-08	--	3.8E-08	(Total)		--	9.1E-05	--	9.1E-05
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	--					Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
						Total Risk for Shallow Soil-to-Indoor Air =	3.8E-08					Total Hazard Index for Shallow Soil-to-Indoor Air =	9.1E-05
						Total Risk for Deep Soil-to-Indoor Air =	--					Total Hazard Index for Deep Soil-to-Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-68	**EAPC No.:** 27

RME Exposure Scenario

No COPCs were selected; therefore, no risks were calculated

Parcel: 7351-34-69	**EAPC No.:** 28

RME Exposure Scenario

TABLE 7.28.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.2E-05	mg/kg-day	8.0E-05	mg/kg-day	1.5E-01
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
	Benzo(a)anthracene	7.0E-01	mg/kg	7.0E-01	mg/kg	M	6.9E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	6.2E-01	mg/kg	6.2E-01	mg/kg	M	6.0E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	7.3E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Chrysene	1.9E+00	mg/kg	1.9E+00	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	2.4E-01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	3.0E-01	mg/kg	M	2.9E-07	mg/kg-day	--	--	--
	Naphthalene*	2.3E+01	mg/kg	2.3E+01	mg/kg	M	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
	VOCs										
	Benzene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	2.4E-08	mg/kg-day	4.0E-03	mg/kg-day	6.0E-06
	n-Butylbenzene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	4.0E-06	mg/kg-day	4.0E-02	mg/kg-day	1.0E-04
	sec-Butylbenzene	7.2E+00	mg/kg	7.2E+00	mg/kg	M	7.0E-06	mg/kg-day	4.0E-02	mg/kg-day	1.8E-04
	Tetrachloroethene	2.6E-02	mg/kg	2.6E-02	mg/kg	M	2.5E-08	mg/kg-day	1.0E-02	mg/kg-day	2.5E-06
	(Total)										1.5E-01

TABLE 7.28.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	7.7E-07	mg/kg-day	8.0E-05	mg/kg-day	9.7E-03
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	9.2E-04
	Benzo(a)anthracene	7.0E-01	mg/kg	7.0E-01	mg/kg	M	5.9E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	6.2E-01	mg/kg	6.2E-01	mg/kg	M	5.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	6.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Chrysene	1.9E+00	mg/kg	1.9E+00	mg/kg	M	1.6E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	2.4E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	3.0E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	Naphthalene*	2.3E+01	mg/kg	2.3E+01	mg/kg	M	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.4E-04
	VOCs										
	Benzene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	1.6E-08	mg/kg-day	4.0E-03	mg/kg-day	4.0E-06
	n-Butylbenzene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	2.7E-06	mg/kg-day	4.0E-02	mg/kg-day	6.6E-05
	sec-Butylbenzene	7.2E+00	mg/kg	7.2E+00	mg/kg	M	4.6E-06	mg/kg-day	4.0E-02	mg/kg-day	1.2E-04
	Tetrachloroethene	2.6E-02	mg/kg	2.6E-02	mg/kg	M	1.7E-08	mg/kg-day	1.0E-02	mg/kg-day	1.7E-06
	(Total)										1.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Thallium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	2.6E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	2-Methylnaphthalene	2.2E+01	mg/kg	3.3E-08	mg/m^3	R	4.8E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.9E-06
	Benzo(a)anthracene	7.0E-01	mg/kg	1.1E-09	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	6.2E-01	mg/kg	9.3E-10	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.7E-10	mg/kg-day	--	--	--	--	--
	Chrysene	1.9E+00	mg/kg	2.9E-09	mg/m^3	R	4.2E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	3.6E-10	mg/m^3	R	5.3E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	4.5E-10	mg/m^3	R	6.6E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	2.3E+01	mg/kg	3.4E-08	mg/m^3	R	5.0E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.0E-06
	VOCs												
	Benzene	2.5E-02	mg/kg	4.5E-06	mg/m^3	R	6.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-05
	n-Butylbenzene	4.1E+00	mg/kg	1.9E-04	mg/m^3	R	2.8E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	6.9E-04
	sec-Butylbenzene	7.2E+00	mg/kg	5.7E-04	mg/m^3	R	8.4E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.1E-03
	Tetrachloroethene	2.6E-02	mg/kg	5.2E-06	mg/m^3	R	7.7E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	4.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-03
	n-Butylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	7.5E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-02
	sec-Butylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	3.9E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	9.7E-04
	Cyclohexane	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	5.6E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.3E-04
	Ethylbenzene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.5E-04
	Isopropylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	4.2E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	3.8E-02
	Naphthalene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	4.3E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.7E-04
	Styrene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	2.9E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-04
	Tetrachloroethene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Toluene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	4.4E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.2E-04
	Xylenes	2.8E-04	mg/m^3	2.8E-04	mg/m^3	M	4.1E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.8E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	9.9E-03
	Benzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	1.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.6E-02
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.7E-03
	Cyclohexane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.6E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.1E-03
	Ethylbenzene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E-03
	Methyl Ethyl Ketone	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	6.1E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	4.2E-03
	Methylene Chloride	9.5E-03	mg/m^3	9.5E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-02
	Styrene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	6.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.7E-03
	Tetrachloroethene	6.8E-02	mg/m^3	6.8E-02	mg/m^3	M	1.0E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E+00
	Toluene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	8.5E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.0E-01
	Trichloroethene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	5.2E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.1E-03
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	4.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.5E-04	mg/kg-day	8.0E-05	mg/kg-day	1.9E+00
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	2.8E-04	mg/kg-day	2.0E-02	mg/kg-day	1.4E-02
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	3.2E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	3.5E-05	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	2.7E-05	mg/kg-day	--	--	--
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	3.6E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	8.4E-06	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	1.1E-03	mg/kg-day	2.0E-02	mg/kg-day	5.6E-02
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	2.2E-06	mg/kg-day	4.0E-03	mg/kg-day	5.4E-04
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	3.5E-04	mg/kg-day	4.0E-02	mg/kg-day	8.6E-03
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	6.5E-04	mg/kg-day	4.0E-02	mg/kg-day	1.6E-02
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	2.9E-06	mg/kg-day	1.0E-02	mg/kg-day	2.9E-04
	(Total)										2.0E+00

TABLE 7.28.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.3E-06	mg/kg-day	8.0E-05	mg/kg-day	5.4E-02
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	1.0E-04	mg/kg-day	2.0E-02	mg/kg-day	5.1E-03
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.0E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	9.8E-06	mg/kg-day	--	--	--
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	3.1E-06	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	4.5E-06	mg/kg-day	--	--	--
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	3.1E-04	mg/kg-day	2.0E-02	mg/kg-day	1.6E-02
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	6.1E-07	mg/kg-day	4.0E-03	mg/kg-day	1.5E-04
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	9.7E-05	mg/kg-day	4.0E-02	mg/kg-day	2.4E-03
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	4.6E-03
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	8.1E-07	mg/kg-day	1.0E-02	mg/kg-day	8.1E-05
	(Total)										8.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	2.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Thallium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	1.2E-08	mg/kg-day	--	--	--	--	--
	SVOCs												
	2-Methylnaphthalene	2.2E+01	mg/kg	3.3E-08	mg/m^3	R	2.1E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	8.2E-06
	Benzo(a)anthracene	2.5E+00	mg/kg	3.8E-09	mg/m^3	R	2.4E-09	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	2.1E-09	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	2.6E-09	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	2.0E-09	mg/kg-day	--	--	--	--	--
	Chrysene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	2.7E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	6.3E-10	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	1.5E-09	mg/m^3	R	9.3E-10	mg/kg-day	--	--	--	--	--
	Naphthalene*	8.7E+01	mg/kg	1.3E-07	mg/m^3	R	8.4E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.2E-05
	VOCs												
	Benzene	1.7E-01	mg/kg	2.9E-05	mg/m^3	R	1.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-03
	n-Butylbenzene	2.7E+01	mg/kg	1.1E-03	mg/m^3	R	7.3E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.8E-02
	sec-Butylbenzene	5.1E+01	mg/kg	3.7E-03	mg/m^3	R	2.4E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	5.9E-02
	Tetrachloroethene	2.3E-01	mg/kg	4.2E-05	mg/m^3	R	2.7E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	8.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.9E-03	mg/m^3	4.9E-03	mg/m^3	M	3.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-01
	n-Butylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.6E-02	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	6.4E-01
	sec-Butylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	1.3E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	3.3E-02
	Cyclohexane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	7.5E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.4E-02
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.1E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.0E-02
	Isopropylbenzene	4.7E-01	mg/m^3	4.7E-01	mg/m^3	M	3.0E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	2.7E+00
	Naphthalene	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	2.9E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-02
	Styrene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	4.1E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.6E-02
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	5.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.0E-01
	Toluene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	3.9E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.5E-02
	Xylenes	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	3.9E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	5.7E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.5E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.7E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	5.4E-07	mg/kg-day	--	--	--
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	7.2E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	4.4E-08	mg/kg-day	4.0E-03	mg/kg-day	1.1E-05
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	7.0E-06	mg/kg-day	4.0E-02	mg/kg-day	1.7E-04
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	1.3E-05	mg/kg-day	4.0E-02	mg/kg-day	3.3E-04
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	5.9E-08	mg/kg-day	1.0E-02	mg/kg-day	5.9E-06
	(Total)										4.1E-02

TABLE 7.28.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	9.3E-08	mg/kg-day	8.0E-05	mg/kg-day	1.2E-03
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	2.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	2.1E-07	mg/kg-day	--	--	--
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	6.6E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	9.8E-08	mg/kg-day	--	--	--
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	6.7E-06	mg/kg-day	2.0E-02	mg/kg-day	3.4E-04
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.3E-08	mg/kg-day	4.0E-03	mg/kg-day	3.3E-06
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	2.1E-06	mg/kg-day	4.0E-02	mg/kg-day	5.2E-05
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	4.0E-06	mg/kg-day	4.0E-02	mg/kg-day	9.9E-05
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	1.8E-08	mg/kg-day	1.0E-02	mg/kg-day	1.8E-06
	(Total)										1.8E-03
										Total Hazard Index Across All Exposure Routes/Pathways	4.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.28.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Thallium	1.2E+01	mg/kg	2.4E-08	mg/m^3	R	3.8E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	2-Methylnaphthalene	2.2E+01	mg/kg	4.5E-08	mg/m^3	R	7.0E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.7E-07
	Benzo(a)anthracene	2.5E+00	mg/kg	5.1E-09	mg/m^3	R	7.9E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	7.0E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.7E+00	mg/kg	5.5E-09	mg/m^3	R	8.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.1E+00	mg/kg	4.2E-09	mg/m^3	R	6.7E-11	mg/kg-day	--	--	--	--	--
	Chrysene	2.8E+00	mg/kg	5.7E-09	mg/m^3	R	8.9E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	1.3E-09	mg/m^3	R	2.1E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	2.0E-09	mg/m^3	R	3.1E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	8.7E+01	mg/kg	1.8E-07	mg/m^3	R	2.8E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-06
	VOCs												
	Benzene	1.7E-01	mg/kg	7.6E-05	mg/m^3	R	1.2E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.9E-05
	n-Butylbenzene	2.7E+01	mg/kg	3.0E-03	mg/m^3	R	4.7E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.2E-03
	sec-Butylbenzene	5.1E+01	mg/kg	9.8E-03	mg/m^3	R	1.5E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	3.8E-03
	Tetrachloroethene	2.3E-01	mg/kg	1.1E-04	mg/m^3	R	1.7E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.28.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.2E-06	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	7.7E-06	mg/kg-day	--	--	--
	Benzo(a)anthracene	7.0E-01	mg/kg	7.0E-01	mg/kg	M	2.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.0E-07
	Benzo(a)pyrene	6.2E-01	mg/kg	6.2E-01	mg/kg	M	2.2E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.6E-06
	Benzo(b)fluoranthene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	2.6E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.1E-07
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.3E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.1E-07
	Chrysene	1.9E+00	mg/kg	1.9E+00	mg/kg	M	6.6E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	8.0E-08
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	2.4E-01	mg/kg	M	8.5E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.5E-07
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	3.0E-01	mg/kg	M	1.0E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.3E-07
	Naphthalene*	2.3E+01	mg/kg	2.3E+01	mg/kg	M	8.0E-06	mg/kg-day	--	--	--
	VOCs										
	Benzene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	8.6E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.6E-10
	n-Butylbenzene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	sec-Butylbenzene	7.2E+00	mg/kg	7.2E+00	mg/kg	M	2.5E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.6E-02	mg/kg	2.6E-02	mg/kg	M	9.0E-09	mg/kg-day	5.4E-01	mg/kg-day^{-1}	4.9E-09
	(Total)										4.3E-06

TABLE 8.28.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	6.6E-06	mg/kg-day	--	--	--
	Benzo(a)anthracene	7.0E-01	mg/kg	7.0E-01	mg/kg	M	2.1E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.5E-07
	Benzo(a)pyrene	6.2E-01	mg/kg	6.2E-01	mg/kg	M	1.8E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.2E-06
	Benzo(b)fluoranthene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	2.2E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.7E-07
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.7E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.4E-07
	Chrysene	1.9E+00	mg/kg	1.9E+00	mg/kg	M	5.7E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	6.8E-08
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	2.4E-01	mg/kg	M	7.3E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.0E-07
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	3.0E-01	mg/kg	M	9.0E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.1E-07
	Naphthalene*	2.3E+01	mg/kg	2.3E+01	mg/kg	M	5.3E-06	mg/kg-day	--	--	--
	VOCs										
	Benzene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	5.7E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	5.7E-10
	n-Butylbenzene	4.1E+00	mg/kg	4.1E+00	mg/kg	M	9.5E-07	mg/kg-day	--	--	--
	sec-Butylbenzene	7.2E+00	mg/kg	7.2E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.6E-02	mg/kg	2.6E-02	mg/kg	M	6.0E-09	mg/kg-day	5.4E-01	mg/kg-day^{-1}	3.2E-09
	(Total)										3.7E-06
										Total Risk Across All Exposure Routes/Pathways	7.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	9.4E-10	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	3.3E-08	mg/m^3	R	1.7E-09	mg/kg-day	--	--	--
	Benzo(a)anthracene	7.0E-01	mg/kg	1.1E-09	mg/m^3	R	5.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	Benzo(a)pyrene	6.2E-01	mg/kg	9.3E-10	mg/m^3	R	4.9E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.9E-10
	Benzo(b)fluoranthene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	5.8E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
	Benzo(k)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	9.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-11
	Chrysene	1.9E+00	mg/kg	2.9E-09	mg/m^3	R	1.5E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	5.8E-12
	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	3.6E-10	mg/m^3	R	1.9E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.8E-11
	Indeno(1,2,3-cd)pyrene	3.0E-01	mg/kg	4.5E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.2E-12
	Naphthalene*	2.3E+01	mg/kg	3.4E-08	mg/m^3	R	1.8E-09	mg/kg-day	--	--	--
	VOCs										
	Benzene	2.5E-02	mg/kg	4.5E-06	mg/m^3	R	2.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-08
	n-Butylbenzene	4.1E+00	mg/kg	1.9E-04	mg/m^3	R	9.9E-06	mg/kg-day	--	--	--
	sec-Butylbenzene	7.2E+00	mg/kg	5.7E-04	mg/m^3	R	3.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.6E-02	mg/kg	5.2E-06	mg/m^3	R	2.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.7E-09
										Total Risk Across All Exposure Routes/Pathways	3.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	1.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-06
	n-Butylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	2.7E-04	mg/kg-day	--	--	--
	sec-Butylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Cyclohexane	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	2.0E-04	mg/kg-day	--	--	--
	Ethylbenzene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	5.2E-05	mg/kg-day	--	--	--
	Isopropylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.5E-03	mg/kg-day	--	--	--
	Naphthalene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	1.5E-07	mg/kg-day	--	--	--
	Styrene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	2.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.1E-07
	Toluene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
	Xylenes	2.8E-04	mg/m^3	2.8E-04	mg/m^3	M	1.5E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.0E-03	mg/kg-day	--	--	--
	Benzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	5.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.3E-05
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.1E-06
	Cyclohexane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Ethylbenzene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	4.5E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	2.2E-03	mg/kg-day	--	--	--
	Methylene Chloride	9.5E-03	mg/m^3	9.5E-03	mg/m^3	M	5.0E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.7E-06
	Styrene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	6.8E-02	mg/m^3	6.8E-02	mg/m^3	M	3.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.5E-05
	Toluene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	3.1E-03	mg/kg-day	--	--	--
	Trichloroethene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	1.9E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.3E-06
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	3.4E-05	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	3.9E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.7E-06
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.4E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.1E-05
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	4.2E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.1E-06
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	3.3E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.9E-06
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	4.4E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	5.3E-07
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	1.0E-06	mg/kg-day	4.1E+00	mg/kg-day^{-1}	4.2E-06
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	1.5E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-06
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	1.4E-04	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	2.7E-07	mg/kg-day	1.0E-01	mg/kg-day^{-1}	2.7E-08
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	4.2E-05	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	8.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	3.6E-07	mg/kg-day	5.4E-01	mg/kg-day^{-1}	1.9E-07
	(Total)										6.2E-05

TABLE 8.28.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.9E-07	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.6E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-06
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.4E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.7E-05
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.7E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.1E-06
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	1.3E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-06
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.8E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	2.2E-07
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	4.2E-07	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.7E-06
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	6.2E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.5E-07
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	4.3E-05	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	8.4E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.4E-09
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	2.5E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	1.1E-07	mg/kg-day	5.4E-01	mg/kg-day^{-1}	6.1E-08
	(Total)										2.5E-05
										Total Risk Across All Exposure Routes/Pathways	8.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	2.7E-09	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	3.3E-08	mg/m^3	R	4.9E-09	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	3.8E-09	mg/m^3	R	5.6E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-10
	Benzo(a)pyrene	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.9E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.9E-09
	Benzo(b)fluoranthene	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	6.0E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.4E-10
	Benzo(k)fluoranthene	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	4.7E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-10
	Chrysene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	6.3E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	2.4E-11
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	1.5E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.0E-10
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	1.5E-09	mg/m^3	R	2.2E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.4E-11
	Naphthalene*	8.7E+01	mg/kg	1.3E-07	mg/m^3	R	1.9E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	2.9E-05	mg/m^3	R	4.3E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.3E-07
	n-Butylbenzene	2.7E+01	mg/kg	1.1E-03	mg/m^3	R	1.7E-04	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	3.7E-03	mg/m^3	R	5.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	4.2E-05	mg/m^3	R	6.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.3E-07
										Total Risk Across All Exposure Routes/Pathways	5.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.9E-03	mg/m^3	4.9E-03	mg/m^3	M	7.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.3E-05
	n-Butylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	6.0E-03	mg/kg-day	--	--	--
	sec-Butylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	3.0E-04	mg/kg-day	--	--	--
	Cyclohexane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	1.7E-02	mg/kg-day	--	--	--
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.6E-03	mg/kg-day	--	--	--
	Isopropylbenzene	4.7E-01	mg/m^3	4.7E-01	mg/m^3	M	7.0E-02	mg/kg-day	--	--	--
	Naphthalene	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	6.8E-06	mg/kg-day	--	--	--
	Styrene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	9.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	1.2E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-05
	Toluene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	9.1E-04	mg/kg-day	--	--	--
	Xylenes	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	9.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.4E-08	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	8.1E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	9.2E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.1E-08
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.1E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	9.7E-08
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.0E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-08
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	7.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.3E-09
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.0E-08	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.2E-09
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	2.4E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.0E-08
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	3.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.3E-09
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	6.3E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	6.3E-11
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	8.4E-10	mg/kg-day	5.4E-01	mg/kg-day^{-1}	4.5E-10
	(Total)										1.5E-07

TABLE 8.28.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Thallium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.3E-09	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	2.2E+01	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	3.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.3E-09
	Benzo(a)pyrene	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.2E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.8E-08
	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.7E+00	mg/kg	M	3.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.7E-09
	Benzo(k)fluoranthene	2.1E+00	mg/kg	2.1E+00	mg/kg	M	3.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-09
	Chrysene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	4.0E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	4.8E-10
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	9.5E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.9E-09
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	9.7E-01	mg/kg	M	1.4E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.7E-09
	Naphthalene*	8.7E+01	mg/kg	8.7E+01	mg/kg	M	9.6E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.9E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.9E-11
	n-Butylbenzene	2.7E+01	mg/kg	2.7E+01	mg/kg	M	3.0E-08	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	5.1E+01	mg/kg	M	5.6E-08	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	2.3E-01	mg/kg	M	2.5E-10	mg/kg-day	5.4E-01	mg/kg-day^{-1}	1.4E-10
	(Total)										5.7E-08
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Thallium	1.2E+01	mg/kg	2.4E-08	mg/m^3	R	5.4E-12	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	2.2E+01	mg/kg	4.5E-08	mg/m^3	R	1.0E-11	mg/kg-day	--	--	--
	Benzo(a)anthracene	2.5E+00	mg/kg	5.1E-09	mg/m^3	R	1.1E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.4E-13
	Benzo(a)pyrene	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	1.0E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.9E-12
	Benzo(b)fluoranthene	2.7E+00	mg/kg	5.5E-09	mg/m^3	R	1.2E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.8E-13
	Benzo(k)fluoranthene	2.1E+00	mg/kg	4.2E-09	mg/m^3	R	9.5E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-13
	Chrysene	2.8E+00	mg/kg	5.7E-09	mg/m^3	R	1.3E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	4.9E-14
	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	1.3E-09	mg/m^3	R	3.0E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-12
	Indeno(1,2,3-cd)pyrene	9.7E-01	mg/kg	2.0E-09	mg/m^3	R	4.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-13
	Naphthalene*	8.7E+01	mg/kg	1.8E-07	mg/m^3	R	3.9E-11	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E-01	mg/kg	7.6E-05	mg/m^3	R	1.7E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-09
	n-Butylbenzene	2.7E+01	mg/kg	3.0E-03	mg/m^3	R	6.7E-07	mg/kg-day	--	--	--
	sec-Butylbenzene	5.1E+01	mg/kg	9.8E-03	mg/m^3	R	2.2E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-01	mg/kg	1.1E-04	mg/m^3	R	2.5E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.2E-10
										Total Risk Across All Exposure Routes/Pathways	2.2E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.28.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	NOAEL	1.5E-01	--	9.7E-03	1.6E-01
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	1.1E-03	--	9.2E-04	2.0E-03
			Benzo(a)anthracene	3.0E-07	--	2.5E-07	5.5E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.6E-06	--	2.2E-06	4.8E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.1E-07	--	2.7E-07	5.8E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	5.1E-07	--	4.4E-07	9.5E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	8.0E-08	--	6.8E-08	1.5E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.5E-07	--	3.0E-07	6.4E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.3E-07	--	1.1E-07	2.3E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	1.1E-03	--	7.4E-04	1.9E-03
			VOCs					**VOCs**					
			Benzene	8.6E-10	--	5.7E-10	1.4E-09	Benzene	Blood	6.0E-06	--	4.0E-06	9.9E-06
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	1.0E-04	--	6.6E-05	1.7E-04
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	1.8E-04	--	1.2E-04	2.9E-04
			Tetrachloroethene	4.9E-09	--	3.2E-09	8.1E-09	Tetrachloroethene	Liver	2.5E-06	--	1.7E-06	4.2E-06
			(Total)	4.3E-06	--	3.7E-06	7.9E-06	(Total)		1.5E-01	--	1.2E-02	1.6E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	1.9E-06	--	1.9E-06
			Benzo(a)anthracene	--	2.2E-11	--	2.2E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.9E-10	--	1.9E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.3E-11	--	2.3E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.7E-11	--	3.7E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	5.8E-12	--	5.8E-12	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	7.8E-11	--	7.8E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	9.2E-12	--	9.2E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	2.0E-06	--	2.0E-06
			VOCs					**VOCs**					
			Benzene	--	2.4E-08	--	2.4E-08	Benzene	Blood	--	3.9E-05	--	3.9E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	6.9E-04	--	6.9E-04
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	2.1E-03	--	2.1E-03
			Tetrachloroethene	--	5.7E-09	--	5.7E-09	Tetrachloroethene	Liver/Kidney	--	7.7E-05	--	7.7E-05
			(Total)	--	3.0E-08	--	3.0E-08	(Total)		--	2.9E-03	--	2.9E-03

TABLE 9.28.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	1.6E-06	--	1.6E-06	Benzene	Blood	--	2.6E-03	--	2.6E-03
		Using the J&E Model	n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	1.9E-02	--	1.9E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	9.7E-04	--	9.7E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.3E-04	--	3.3E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.5E-04	--	2.5E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	3.8E-02	--	3.8E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.7E-04	--	1.7E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-04	--	1.1E-04
			Tetrachloroethene	--	4.1E-07	--	4.1E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Toluene	--	--	--	--	Toluene	CNS	--	5.2E-04	--	5.2E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.1E-04	--	2.1E-04
			(Total)	--	2.0E-06	--	2.0E-06	(Total)		--	6.7E-02	--	6.7E-02
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	9.9E-03	--	9.9E-03
			Benzene	--	5.3E-05	--	5.3E-05	Benzene	Blood	--	8.6E-02	--	8.6E-02
			Chloroform	--	2.1E-06	--	2.1E-06	Chloroform	Kidney	--	3.7E-03	--	3.7E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.1E-03	--	2.1E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E-03	--	2.2E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	4.2E-03	--	4.2E-03
			Methylene Chloride	--	1.7E-06	--	1.7E-06	Methylene Chloride	Liver	--	1.2E-02	--	1.2E-02
			Styrene	--	--	--	--	Styrene	CNS	--	2.7E-03	--	2.7E-03
			Tetrachloroethene	--	7.5E-05	--	7.5E-05	Tetrachloroethene	Liver/Kidney	--	1.0E+00	--	1.0E+00
			Toluene	--	--	--	--	Toluene	CNS	--	1.0E-01	--	1.0E-01
			Trichloroethene	--	1.3E-06	--	1.3E-06	Trichloroethene	CNS	--	3.1E-03	--	3.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.3E-02	--	2.3E-02
			(Total)	--	1.3E-04	--	1.3E-04	(Total)		--	1.2E+00	--	1.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.9E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.6E-01
Total Risk for Shallow Soil-to-Indoor Air =	2.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.7E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.3E-04	Total Hazard Index for Workplace Indoor Air =	1.2E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.28.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	NOAEL	1.9E+00	--	5.4E-02	2.0E+00
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	1.4E-02	--	5.1E-03	1.9E-02
			Benzo(a)anthracene	4.7E-06	--	1.9E-06	6.6E-06	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.1E-05	--	1.7E-05	5.8E-05	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.1E-06	--	2.1E-06	7.2E-06	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.9E-06	--	1.6E-06	5.6E-06	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	5.3E-07	--	2.2E-07	7.4E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	4.2E-06	--	1.7E-06	6.0E-06	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.8E-06	--	7.5E-07	2.6E-06	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	5.6E-02	--	1.6E-02	7.1E-02
			VOCs					**VOCs**					
			Benzene	2.7E-08	--	8.4E-09	3.5E-08	Benzene	Blood	5.4E-04	--	1.5E-04	7.0E-04
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	8.6E-03	--	2.4E-03	1.1E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	1.6E-02	--	4.6E-03	2.1E-02
			Tetrachloroethene	1.9E-07	--	6.1E-08	2.5E-07	Tetrachloroethene	Liver	2.9E-04	--	8.1E-05	3.7E-04
			(Total)	6.2E-05	--	2.5E-05	8.7E-05	(Total)		2.0E+00	--	8.2E-02	2.1E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	8.2E-06	--	8.2E-06
			Benzo(a)anthracene	--	2.2E-10	--	2.2E-10	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.9E-09	--	1.9E-09	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.4E-10	--	2.4E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.8E-10	--	1.8E-10	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	2.4E-11	--	2.4E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.0E-10	--	6.0E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	8.4E-11	--	8.4E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	3.2E-05	--	3.2E-05
			VOCs					**VOCs**					
			Benzene	--	4.3E-07	--	4.3E-07	Benzene	Blood	--	1.1E-03	--	1.1E-03
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	1.8E-02	--	1.8E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	5.9E-02	--	5.9E-02
			Tetrachloroethene	--	1.3E-07	--	1.3E-07	Tetrachloroethene	Liver/Kidney	--	2.7E-03	--	2.7E-03
			(Total)	--	5.6E-07	--	5.6E-07	(Total)		--	8.1E-02	--	8.1E-02

TABLE 9.28.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	7.3E-05	--	7.3E-05	Benzene	Blood	--	1.8E-01	--	1.8E-01
		Using the J&E Model	n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	6.4E-01	--	6.4E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	3.3E-02	--	3.3E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.4E-02	--	4.4E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.0E-02	--	2.0E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	2.7E+00	--	2.7E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.6E-02	--	1.6E-02
			Tetrachloroethene	--	2.4E-05	--	2.4E-05	Tetrachloroethene	Liver/Kidney	--	5.0E-01	--	5.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	4.5E-02	--	4.5E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.0E-02	--	2.0E-02
			(Total)	--	9.7E-05	--	9.7E-05	(Total)		--	4.2E+00	--	4.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.8E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.2E+00
Total Risk for Shallow Soil-to-Indoor Air =	9.7E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.2E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.28.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Trench Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	NOAEL	3.9E-02	--	1.2E-03	4.0E-02
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	2.8E-04	--	1.1E-04	3.9E-04
			Benzo(a)anthracene	1.1E-08	--	4.3E-09	1.5E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	9.7E-08	--	3.8E-08	1.4E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.2E-08	--	4.7E-09	1.7E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	9.3E-09	--	3.6E-09	1.3E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.2E-09	--	4.8E-10	1.7E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.0E-08	--	3.9E-09	1.4E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.3E-09	--	1.7E-09	6.0E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	1.1E-03	--	3.4E-04	1.5E-03
			VOCs					**VOCs**					
			Benzene	6.3E-11	--	1.9E-11	8.2E-11	Benzene	Blood	1.1E-05	--	3.3E-06	1.4E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	1.7E-04	--	5.2E-05	2.3E-04
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	3.3E-04	--	9.9E-05	4.3E-04
			Tetrachloroethene	4.5E-10	--	1.4E-10	5.9E-10	Tetrachloroethene	Liver	5.9E-06	--	1.8E-06	7.6E-06
			(Total)	1.5E-07	--	5.7E-08	2.0E-07	(Total)		4.1E-02	--	1.8E-03	4.2E-02

TABLE 9.28.3.RME

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

TRENCH WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Trench Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	2.7E-07	--	2.7E-07
			Benzo(a)anthracene	--	4.4E-13	--	4.4E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	3.9E-12	--	3.9E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	4.8E-13	--	4.8E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.7E-13	--	3.7E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	4.9E-14	--	4.9E-14	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.2E-12	--	1.2E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.7E-13	--	1.7E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	1.1E-06	--	1.1E-06
			VOCs					**VOCs**					
			Benzene	--	1.7E-09	--	1.7E-09	Benzene	Blood	--	6.9E-05	--	6.9E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	1.2E-03	--	1.2E-03
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	3.8E-03	--	3.8E-03
			Tetrachloroethene	--	5.2E-10	--	5.2E-10	Tetrachloroethene	Liver/Kidney	--	1.7E-04	--	1.7E-04
			(Total)	--	2.2E-09	--	2.2E-09	(Total)		--	5.2E-03	--	5.2E-03
						Total Risk Across Surface Soil =	--					Total Hazard Index Across Surface Soil =	--
						Total Risk Across Shallow Soil (0-15' bgs) =	2.0E-07					Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.8E-02
						Total Risk for Indoor Air =	--					Total Hazard Index for Indoor Air =	--
						Total Risk Across Groundwater =	--					Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-70	**EAPC No.:** 29

RME Exposure Scenario

TABLE 7.29.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.8E-02
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	6.7E-06	mg/kg-day	1.0E-03	mg/kg-day	6.7E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	5.4E-04	mg/kg-day	1.4E-01	mg/kg-day	3.8E-03
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	5.2E-06	mg/kg-day	5.0E-04	mg/kg-day	1.0E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	(Total)										1.2E-01
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	4.4E-08	mg/kg-day	1.0E-03	mg/kg-day	4.4E-05
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.5E-04
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.0E-06	mg/kg-day	5.0E-04	mg/kg-day	2.1E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	(Total)										2.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.6E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.7E-04
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.6E-04
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.1E-03
	Pesticides/PCBs												
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.8E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.8E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.8E-02
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	8.5E-06	mg/kg-day	1.0E-03	mg/kg-day	8.5E-03
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	6.0E-04	mg/kg-day	1.4E-01	mg/kg-day	4.3E-03
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	5.2E-06	mg/kg-day	5.0E-04	mg/kg-day	1.0E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	(Total)										1.2E-01
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	5.6E-08	mg/kg-day	1.0E-03	mg/kg-day	5.6E-05
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	3.9E-05	mg/kg-day	1.4E-01	mg/kg-day	2.8E-04
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.0E-06	mg/kg-day	5.0E-04	mg/kg-day	2.1E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	(Total)										2.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.6E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.7E-04
	Cadmium	8.7E+00	mg/kg	1.3E-08	mg/m^3	R	1.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.4E-04
	Manganese	6.1E+02	mg/kg	9.2E-07	mg/m^3	R	1.3E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.4E-03
	Pesticides/PCBs												
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.8E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.8E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	6.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.8E-04	mg/kg-day	3.0E-04	mg/kg-day	1.3E+00
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	7.8E-03	mg/kg-day	1.4E-01	mg/kg-day	5.6E-02
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	6.8E-05	mg/kg-day	5.0E-04	mg/kg-day	1.4E-01
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	(Total)										1.6E+00
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	3.1E-07	mg/kg-day	1.0E-03	mg/kg-day	3.1E-04
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	2.2E-04	mg/kg-day	1.4E-01	mg/kg-day	1.6E-03
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	5.7E-06	mg/kg-day	5.0E-04	mg/kg-day	1.1E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	(Total)										1.2E-01
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.9E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.4E-03
	Cadmium	8.7E+00	mg/kg	1.3E-08	mg/m^3	R	8.4E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.5E-03
	Manganese	6.1E+02	mg/kg	9.2E-07	mg/m^3	R	5.9E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.0E-02
	Pesticides/PCBs												
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	2.1E-09	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	5.1E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	3.0E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	7.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.5E-01
												Total Hazard Index Across All Exposure Routes/Pathways	4.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.7E-06	mg/kg-day	3.0E-04	mg/kg-day	2.6E-02
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	1.6E-04	mg/kg-day	1.4E-01	mg/kg-day	1.1E-03
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.7E-07	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.4E-06	mg/kg-day	5.0E-04	mg/kg-day	2.7E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	8.0E-08	mg/kg-day	--	--	--
	(Total)										3.2E-02
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.0E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	6.7E-09	mg/kg-day	1.0E-03	mg/kg-day	6.7E-06
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	4.7E-06	mg/kg-day	1.4E-01	mg/kg-day	3.4E-05
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.1E-08	mg/kg-day	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.2E-07	mg/kg-day	5.0E-04	mg/kg-day	2.5E-04
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.1E-08	mg/kg-day	--	--	--
	(Total)										2.6E-03
										Total Hazard Index Across All Exposure Routes/Pathways	3.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.29.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	6.1E-08	mg/m^3	R	9.5E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.1E-04
	Cadmium	8.7E+00	mg/kg	1.8E-08	mg/m^3	R	2.8E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.8E-05
	Manganese	6.1E+02	mg/kg	1.2E-06	mg/m^3	R	1.9E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.4E-04
	Pesticides/PCBs												
	4,4'-DDE	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	7.0E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.7E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	6.3E-10	mg/m^3	R	9.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	5.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.29.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.6E-05
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.7E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.6E-07
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.9E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	6.3E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.3E-07
	(Total)										1.7E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	5.2E-08
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	3.7E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.2E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	9.3E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-07
	(Total)										3.4E-06
										Total Risk Across All Exposure Routes/Pathways	2.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	5.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.0E-09
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	4.3E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.7E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	5.9E-11
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	4.2E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-12
										Total Risk Across All Exposure Routes/Pathways	3.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.6E-05
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	3.0E-06	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	2.1E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.7E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.6E-07
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.9E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	6.3E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.3E-07
	(Total)										1.7E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	5.2E-08
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	3.7E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.2E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	9.3E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-07
	(Total)										3.4E-06
										Total Risk Across All Exposure Routes/Pathways	2.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Cadmium	8.7E+00	mg/kg	1.3E-08	mg/m^3	R	6.8E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.0E-08
	Manganese	6.1E+02	mg/kg	9.2E-07	mg/m^3	R	4.8E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.7E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	5.9E-11
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	4.2E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-12
										Total Risk Across All Exposure Routes/Pathways	3.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	2.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-05
										Total Risk Across All Exposure Routes/Pathways	2.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.7E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.0E-05
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	9.5E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.4E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.2E-06
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	8.3E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.8E-06
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.9E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.8E-07
	(Total)										7.5E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.7E-06
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	3.0E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.3E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.1E-07
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	7.9E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.7E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.0E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	2.4E-07
	(Total)										7.3E-06
										Total Risk Across All Exposure Routes/Pathways	8.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.0E-08
	Cadmium	8.7E+00	mg/kg	1.3E-08	mg/m^3	R	1.9E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.9E-08
	Manganese	6.1E+02	mg/kg	9.2E-07	mg/m^3	R	1.4E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.9E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.7E-10
	4,4'-DDT	5.3E+00	mg/kg	8.0E-09	mg/m^3	R	1.2E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.0E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.9E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.7E-11
										Total Risk Across All Exposure Routes/Pathways	1.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-04
										Total Risk Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.7E-07
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	2.3E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.1E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.8E-09
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	2.0E-08	mg/kg-day	3.4E-01	mg/kg-day^{-1}	6.6E-09
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.4E-09
	(Total)										1.8E-07
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.5E-08
	Cadmium	8.7E+00	mg/kg	8.7E+00	mg/kg	M	9.6E-11	mg/kg-day	--	--	--
	Manganese	6.1E+02	mg/kg	6.1E+02	mg/kg	M	6.8E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.3E-10	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.5E-10
	4,4'-DDT	5.3E+00	mg/kg	5.3E+00	mg/kg	M	1.8E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	6.0E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.5E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.4E-10
	(Total)										1.6E-08
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	6.1E-08	mg/m^3	R	1.4E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.6E-10
	Cadmium	8.7E+00	mg/kg	1.8E-08	mg/m^3	R	3.9E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.9E-11
	Manganese	6.1E+02	mg/kg	1.2E-06	mg/m^3	R	2.8E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	1.0E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	3.4E-13
	4,4'-DDT	5.3E+00	mg/kg	1.1E-08	mg/m^3	R	2.4E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	8.1E-13
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	6.3E-10	mg/m^3	R	1.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.5E-14
										Total Risk Across All Exposure Routes/Pathways	2.2E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.29.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	1.6E-05	--	3.1E-06	1.9E-05	Arsenic	Skin	9.8E-02	--	1.9E-02	1.2E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	6.7E-03	--	4.4E-05	6.7E-03
			Manganese	--	--	--	--	Manganese	CNS	3.8E-03	--	2.5E-04	4.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	2.6E-07	--	5.2E-08	3.1E-07	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	6.3E-07	--	1.2E-07	7.5E-07	4,4'-DDT	Liver	1.0E-02	--	2.1E-03	1.2E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.3E-07	--	1.1E-07	2.4E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.7E-05	--	3.4E-06	2.0E-05	(Total)		1.2E-01	--	2.2E-02	1.4E-01
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.8E-08	--	2.8E-08	Arsenic	Skin	--	7.7E-04	--	7.7E-04
			Cadmium	--	8.0E-09	--	8.0E-09	Cadmium	Kidney	--	2.6E-04	--	2.6E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.1E-03	--	2.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	5.9E-11	--	5.9E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	1.4E-10	--	1.4E-10	4,4'-DDT	Liver	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	9.5E-12	--	9.5E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.7E-08	--	3.7E-08	(Total)		--	3.2E-03	--	3.2E-03

TABLE 9.29.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.6E-05	--	3.1E-06	1.9E-05	Arsenic	Skin	9.8E-02	--	1.9E-02	1.2E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	8.5E-03	--	5.6E-05	8.6E-03
			Manganese	--	--	--	--	Manganese	CNS	4.3E-03	--	2.8E-04	4.5E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	2.6E-07	--	5.2E-08	3.1E-07	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	6.3E-07	--	1.2E-07	7.5E-07	4,4'-DDT	Liver	1.0E-02	--	2.1E-03	1.2E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.3E-07	--	1.1E-07	2.4E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.7E-05	--	3.4E-06	2.0E-05	(Total)		1.2E-01	--	2.2E-02	1.4E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.8E-08	--	2.8E-08	Arsenic	Developmental	--	7.7E-04	--	7.7E-04
			Cadmium	--	1.0E-08	--	1.0E-08	Cadmium	Kidney	--	3.4E-04	--	3.4E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.4E-03	--	2.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	5.9E-11	--	5.9E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	1.4E-10	--	1.4E-10	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	9.5E-12	--	9.5E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.9E-08	--	3.9E-08	(Total)		--	3.5E-03	--	3.5E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.1E-05	--	2.1E-05	Benzene	Blood	--	3.5E-02	--	3.5E-02
			(Total)	--	2.1E-05	--	2.1E-05	(Total)		--	3.5E-02	--	3.5E-02

Total Risk Across Surface Soil =	2.0E-05	Total Hazard Index Across Surface Soil =	1.4E-01
Total Risk Across Shallow Soil (0-15' bgs) =	2.0E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.5E-01
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	2.1E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	3.5E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.29.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.0E-05	--	6.7E-06	7.7E-05	Arsenic	Skin	1.3E+00	--	1.1E-01	1.4E+00
			Cadmium	--	--	--	--	Cadmium	Kidney	1.1E-01	--	3.1E-04	1.1E-01
			Manganese	--	--	--	--	Manganese	CNS	5.6E-02	--	1.6E-03	5.7E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	1.2E-06	--	1.1E-07	1.3E-06	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	2.8E-06	--	2.7E-07	3.1E-06	4,4'-DDT	Liver	1.4E-01	--	1.1E-02	1.5E-01
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	5.8E-07	--	2.4E-07	8.2E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	7.5E-05	--	7.3E-06	8.2E-05	(Total)		1.6E+00	--	1.2E-01	1.7E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	8.0E-08	--	8.0E-08	Arsenic	Developmental	--	3.4E-03	--	3.4E-03
			Cadmium	--	2.9E-08	--	2.9E-08	Cadmium	Kidney	--	1.5E-03	--	1.5E-03
			Manganese	--	--	--	--	Manganese	CNS	--	1.0E-02	--	1.0E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	1.7E-10	--	1.7E-10	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	4.0E-10	--	4.0E-10	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.7E-11	--	2.7E-11	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	1.1E-07	--	1.1E-07	(Total)		--	1.5E-02	--	1.5E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.8E-04	--	1.8E-04	Benzene	Blood	--	4.5E-01	--	4.5E-01
			(Total)	--	1.8E-04	--	1.8E-04	(Total)		--	4.5E-01	--	4.5E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.2E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E+00
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	1.8E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	4.5E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.29.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.7E-07	--	1.5E-08	1.8E-07	Arsenic	Skin	2.6E-02	--	2.3E-03	2.8E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	2.2E-03	--	6.7E-06	2.3E-03
			Manganese	--	--	--	--	Manganese	CNS	1.1E-03	--	3.4E-05	1.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	2.8E-09	--	2.5E-10	3.0E-09	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	6.6E-09	--	6.0E-10	7.2E-09	4,4'-DDT	Liver	2.7E-03	--	2.5E-04	3.0E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.4E-09	--	5.4E-10	1.9E-09	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.8E-07	--	1.6E-08	1.9E-07	(Total)		3.2E-02	--	2.6E-03	3.5E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.6E-10	--	1.6E-10	Arsenic	Developmental	--	1.1E-04	--	1.1E-04
			Cadmium	--	5.9E-11	--	5.9E-11	Cadmium	Kidney	--	4.8E-05	--	4.8E-05
			Manganese	--	--	--	--	Manganese	CNS	--	3.4E-04	--	3.4E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	3.4E-13	--	3.4E-13	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	8.1E-13	--	8.1E-13	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	5.5E-14	--	5.5E-14	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	2.2E-10	--	2.2E-10	(Total)		--	5.0E-04	--	5.0E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.9E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.5E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-72	**EAPC No.:** 30

RME Exposure Scenario

TABLE 7.30.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	7.9E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	6.8E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	8.1E-03	mg/kg	1.2E-11	mg/m^3	R	1.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	5.1E-04	mg/kg-day	1.4E-01	mg/kg-day	3.6E-03
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	1.4E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	(Total)										1.6E-02
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	8.4E-08	mg/kg-day	1.0E-03	mg/kg-day	8.4E-05
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	3.4E-05	mg/kg-day	1.4E-01	mg/kg-day	2.4E-04
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.8E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	(Total)										3.2E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	2.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	5.0E-04
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	1.1E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.0E-03
	SVOCs												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	7.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	4.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	3.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	3.1E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-72
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.7E-04	mg/kg-day	1.0E-03	mg/kg-day	1.7E-01
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	6.6E-03	mg/kg-day	1.4E-01	mg/kg-day	4.7E-02
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	4.2E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	2.8E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	1.8E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	(Total)										2.1E-01
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.7E-07	mg/kg-day	1.0E-03	mg/kg-day	4.7E-04
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.9E-04	mg/kg-day	1.4E-01	mg/kg-day	1.3E-03
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.5E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.5E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	(Total)										1.8E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.2E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.2E-03
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	5.0E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	8.7E-03
	SVOCs												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	3.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	2.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	1.3E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-04	mg/kg-day	1.4E-01	mg/kg-day	9.6E-04
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.5E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	5.7E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	3.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	(Total)										4.3E-03
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.0E-08	mg/kg-day	1.0E-03	mg/kg-day	1.0E-05
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	4.0E-06	mg/kg-day	1.4E-01	mg/kg-day	2.9E-05
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	3.3E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	(Total)										3.9E-05
										Total Hazard Index Across All Exposure Routes/Pathways	4.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.30.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.3E+01	mg/kg	2.6E-08	mg/m^3	R	4.1E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	7.2E-05
	Manganese	5.2E+02	mg/kg	1.1E-06	mg/m^3	R	1.6E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.9E-04
	SVOCs												
	Benzo(a)anthracene	3.3E-01	mg/kg	6.7E-10	mg/m^3	R	1.0E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	4.5E-10	mg/m^3	R	7.0E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.8E-10	mg/m^3	R	4.4E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.30.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	2.8E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.4E-08
	(Total)										3.4E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	2.4E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.9E-08
	(Total)										2.9E-08
										Total Risk Across All Exposure Routes/Pathways	6.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	1.2E-11	mg/m^3	R	6.4E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.5E-12
										Total Risk Across All Exposure Routes/Pathways	2.5E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.5E-06	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.8E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.2E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.4E-07
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	7.7E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.2E-07
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.9E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.9E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.4E-08
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.9E-07
	(Total)										1.5E-06
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.0E-08	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	9.9E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.2E-07
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	6.6E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.9E-07
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.2E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.0E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.2E-08
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.5E-07
	(Total)										1.3E-06
										Total Risk Across All Exposure Routes/Pathways	2.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.5E-08
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	4.1E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	2.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-11
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	1.7E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	6.8E-11
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	1.1E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.3E-12
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-12
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.5E-11
										Total Risk Across All Exposure Routes/Pathways	1.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-08
										Total Risk Across All Exposure Routes/Pathways	2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	2.0E-05	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	8.1E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	5.2E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.2E-07
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	3.4E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.1E-06
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	2.2E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.6E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.8E-07
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-06
	(Total)										6.7E-06
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.4E-08	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.6E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.5E-07
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.4E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.7E-06
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	9.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-07
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.3E-07
	(Total)										2.7E-06
										Total Risk Across All Exposure Routes/Pathways	9.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	2.9E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.4E-08
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	1.2E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	7.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.9E-11
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	4.9E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.9E-10
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	3.1E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-11
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-11
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-10
										Total Risk Across All Exposure Routes/Pathways	4.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
										Total Risk Across All Exposure Routes/Pathways	2.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	4.8E-08	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-09
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	8.1E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.7E-09
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	5.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.2E-10
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.9E-10
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.0E-09
	(Total)										1.6E-08
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.4E-10	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	5.8E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	4.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.7E-10
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	3.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.8E-09
	Benzo(b)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	2.0E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.4E-10
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-10
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-09
	(Total)										6.1E-09
										Total Risk Across All Exposure Routes/Pathways	2.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	2.6E-08	mg/m^3	R	5.9E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.8E-11
	Manganese	5.2E+02	mg/kg	1.1E-06	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	6.7E-10	mg/m^3	R	1.5E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.8E-14
	Benzo(a)pyrene	2.2E-01	mg/kg	4.5E-10	mg/m^3	R	1.0E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.9E-13
	Benzo(b)fluoranthene	1.4E-01	mg/kg	2.8E-10	mg/m^3	R	6.3E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.5E-14
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.5E-14
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.7E-13
										Total Risk Across All Exposure Routes/Pathways	8.9E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.30.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-72
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	3.4E-08	--	2.9E-08	6.3E-08	Benzo(a)pyrene	--	--	--	--	--
			(Total)	3.4E-08	--	2.9E-08	6.3E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	2.5E-12	--	2.5E-12	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	2.5E-12	--	2.5E-12	(Total)		--	--	--	--
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.3E-02	--	8.4E-05	1.3E-02
			Manganese	--	--	--	--	Manganese	CNS	3.6E-03	--	2.4E-04	3.9E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.4E-07	--	1.2E-07	2.6E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	9.2E-07	--	7.9E-07	1.7E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.9E-08	--	5.0E-08	1.1E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.4E-08	--	7.2E-08	1.6E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.9E-07	--	2.5E-07	5.3E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	1.5E-06	--	1.3E-06	2.8E-06	(Total)		1.6E-02	--	3.2E-04	1.7E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.5E-08	--	1.5E-08	Cadmium	Kidney	--	5.0E-04	--	5.0E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.0E-03	--	2.0E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.0E-11	--	1.0E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	6.8E-11	--	6.8E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	4.3E-12	--	4.3E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	6.1E-12	--	6.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.5E-11	--	6.5E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	1.5E-08	--	1.5E-08	(Total)		--	2.5E-03	--	2.5E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Tetrachloroethene	--	2.3E-08	--	2.3E-08	Tetrachloroethene	Liver/Kidney	--	3.1E-04	--	3.1E-04
			(Total)	--	2.3E-08	--	2.3E-08	(Total)		--	3.1E-04	--	3.1E-04

Total Risk Across Surface Soil =	6.3E-08	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.8E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.9E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.3E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.30.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-72
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.7E-01	--	4.7E-04	1.7E-01
			Manganese	--	--	--	--	Manganese	CNS	4.7E-02	--	1.3E-03	4.9E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	6.2E-07	--	2.5E-07	8.7E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.1E-06	--	1.7E-06	5.8E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.6E-07	--	1.1E-07	3.7E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.8E-07	--	1.5E-07	5.3E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.3E-06	--	5.3E-07	1.8E-06	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	6.7E-06	--	2.7E-06	9.4E-06	(Total)		2.1E-01	--	1.8E-03	2.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	4.4E-08	--	4.4E-08	Cadmium	Kidney	--	2.2E-03	--	2.2E-03
			Manganese	--	--	--	--	Manganese	CNS	--	8.7E-03	--	8.7E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.9E-11	--	2.9E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.9E-10	--	1.9E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.2E-11	--	1.2E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.7E-11	--	1.7E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.8E-10	--	1.8E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	4.4E-08	--	4.4E-08	(Total)		--	1.1E-02	--	1.1E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			(Total)	--	2.7E-07	--	2.7E-07	(Total)		--	5.5E-03	--	5.5E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.5E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.3E-01
Total Risk for Shallow Soil-to-Indoor Air =	2.7E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.5E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.30.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-72
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	3.4E-03	--	1.0E-05	3.4E-03
			Manganese	--	--	--	--	Manganese	CNS	9.6E-04	--	2.9E-05	9.9E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.5E-09	--	5.7E-10	2.0E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	9.7E-09	--	3.8E-09	1.4E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	6.2E-10	--	2.4E-10	8.6E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.9E-10	--	3.5E-10	1.2E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.0E-09	--	1.2E-09	4.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	1.6E-08	--	6.1E-09	2.2E-08	(Total)		4.3E-03	--	3.9E-05	4.4E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	8.8E-11	--	8.8E-11	Cadmium	Kidney	--	7.2E-05	--	7.2E-05
			Manganese	--	--	--	--	Manganese	CNS	--	2.9E-04	--	2.9E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	5.8E-14	--	5.8E-14	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	3.9E-13	--	3.9E-13	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.5E-14	--	2.5E-14	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.5E-14	--	3.5E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.7E-13	--	3.7E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	8.9E-11	--	8.9E-11	(Total)		--	3.6E-04	--	3.6E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.2E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.7E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-73	**EAPC No.:** 31

RME Exposure Scenario

TABLE 7.31.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.6E-04
	Ethylbenzene	6.8E-05	mg/m^3	6.8E-05	mg/m^3	M	1.0E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-05
	Styrene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	8.8E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.4E-05
	Toluene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	6.3E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.4E-05
	Xylenes	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	3.6E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.8E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.31.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.8E-03
	Ethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.0E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.8E-04
	Styrene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.0E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.5E-04
	Toluene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	6.5E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.6E-04
	Xylenes	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	3.6E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.31.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	5.3E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.3E-07
	Ethylbenzene	6.8E-05	mg/m^3	6.8E-05	mg/m^3	M	3.6E-06	mg/kg-day	--	--	--
	Styrene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	3.1E-06	mg/kg-day	--	--	--
	Toluene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	2.3E-06	mg/kg-day	--	--	--
	Xylenes	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.31.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	3.5E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.5E-06
	Ethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.4E-05	mg/kg-day	--	--	--
	Styrene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
	Toluene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.5E-05	mg/kg-day	--	--	--
	Xylenes	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	8.5E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.31.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-73
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.3E-07	--	5.3E-07	Benzene	Blood	--	8.6E-04	--	8.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-05	--	1.7E-05
			Styrene	--	--	--	--	Styrene	CNS	--	3.4E-05	--	3.4E-05
			Toluene	--	--	--	--	Toluene	CNS	--	7.4E-05	--	7.4E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.8E-05	--	1.8E-05
			(Total)	--	5.3E-07	--	5.3E-07	(Total)		--	1.0E-03	--	1.0E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.3E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.0E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.31.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.5E-06	--	3.5E-06	Benzene	Blood	--	8.8E-03	--	8.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.8E-04	--	1.8E-04
			Styrene	--	--	--	--	Styrene	CNS	--	3.5E-04	--	3.5E-04
			Toluene	--	--	--	--	Toluene	CNS	--	7.6E-04	--	7.6E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.8E-04	--	1.8E-04
			(Total)	--	3.5E-06	--	3.5E-06	(Total)		--	1.0E-02	--	1.0E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.5E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.0E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-76	**EAPC No.:** 32

RME Exposure Scenario

TABLE 7.32.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	9.8E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	7.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.1E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	2.4E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	8.4E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	6.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.4E-07	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	9.2E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	2.1E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	2.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	6.4E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	6.4E-11	mg/kg-day	--	--	--	--	--
	Chrysene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	3.8E-11	mg/m^3	R	5.5E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.5E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.7E-05
	Tetrachloroethene	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	5.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	9.5E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.7E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	3.4E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	5.1E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	9.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	7.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	2.8E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	2.8E-10	mg/kg-day	--	--	--	--	--
	Chrysene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	1.1E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	3.8E-11	mg/m^3	R	2.4E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.5E-04	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.7E-04
	Tetrachloroethene	8.0E-05	mg/m^3	8.0E-05	mg/m^3	M	5.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	7.5E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	7.5E-08	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	6.5E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	7.5E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.9E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	2.9E-08	mg/kg-day	--	--	--
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	2.5E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.32.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	1.0E+00	mg/kg	2.0E-09	mg/m^3	R	3.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.4E-01	mg/kg	1.5E-09	mg/m^3	R	2.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	2.9E-01	mg/kg	5.9E-10	mg/m^3	R	9.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.9E-01	mg/kg	5.9E-10	mg/m^3	R	9.2E-12	mg/kg-day	--	--	--	--	--
	Chrysene	1.1E+00	mg/kg	2.2E-09	mg/m^3	R	3.5E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	5.1E-11	mg/m^3	R	7.9E-13	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	3.0E-10	mg/m^3	R	4.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.32.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	3.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.2E-07
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	2.6E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.1E-06
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.0E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-07
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.0E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-07
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	3.8E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	4.6E-08
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	8.7E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.6E-08
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	5.2E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.3E-08
	(Total)										3.9E-06
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	3.0E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-07
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	2.2E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.7E-06
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	8.7E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.0E-07
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	8.7E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.0E-07
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	3.3E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	4.0E-08
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	7.5E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.1E-08
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.5E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.4E-08
	(Total)										3.4E-06
										Total Risk Across All Exposure Routes/Pathways	7.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	7.9E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.1E-11
	Benzo(a)pyrene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	5.8E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-10
	Benzo(b)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	2.3E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.9E-12
	Benzo(k)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	2.3E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.9E-12
	Chrysene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	8.7E-11	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	3.4E-12
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	3.8E-11	mg/m^3	R	2.0E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	8.1E-12
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	1.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.6E-12
										Total Risk Across All Exposure Routes/Pathways	2.9E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	5.3E-06	mg/kg-day	--	--	--
	Tetrachloroethene	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	1.8E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.8E-08
										Total Risk Across All Exposure Routes/Pathways	3.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.6E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-06
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	1.2E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.4E-05
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	4.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.4E-07
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	4.5E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.4E-07
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.7E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	2.1E-07
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	3.9E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.6E-07
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	2.3E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.8E-07
	(Total)										1.8E-05
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	6.4E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.7E-07
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	4.8E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.7E-06
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.9E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.2E-07
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.9E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.2E-07
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	7.1E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	8.5E-08
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	1.6E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	6.6E-08
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.6E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-07
	(Total)										7.2E-06
										Total Risk Across All Exposure Routes/Pathways	2.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	2.2E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.7E-11
	Benzo(a)pyrene	7.4E-01	mg/kg	1.1E-09	mg/m^3	R	1.7E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	6.4E-10
	Benzo(b)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	6.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.5E-11
	Benzo(k)fluoranthene	2.9E-01	mg/kg	4.4E-10	mg/m^3	R	6.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.5E-11
	Chrysene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	2.5E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	9.6E-12
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	3.8E-11	mg/m^3	R	5.6E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.3E-11
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.3E-11
										Total Risk Across All Exposure Routes/Pathways	8.3E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	3.5E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.0E-05	mg/m^3	8.0E-05	mg/m^3	M	1.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.5E-07
										Total Risk Across All Exposure Routes/Pathways	2.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	3.7E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.4E-09
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	2.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.3E-08
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.3E-09
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.3E-09
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	4.1E-09	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	4.9E-10
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	9.2E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.8E-10
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	5.5E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.6E-10
	(Total)										4.1E-08
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.4E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.7E-09
	Benzo(a)pyrene	7.4E-01	mg/kg	7.4E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Benzo(b)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	4.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.0E-10
	Benzo(k)fluoranthene	2.9E-01	mg/kg	2.9E-01	mg/kg	M	4.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.0E-10
	Chrysene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.6E-09	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	1.9E-10
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	2.5E-02	mg/kg	M	3.6E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.5E-10
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	2.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.6E-10
	(Total)										1.6E-08
										Total Risk Across All Exposure Routes/Pathways	5.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-76
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	1.0E+00	mg/kg	2.0E-09	mg/m^3	R	4.5E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-13
	Benzo(a)pyrene	7.4E-01	mg/kg	1.5E-09	mg/m^3	R	3.3E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.3E-12
	Benzo(b)fluoranthene	2.9E-01	mg/kg	5.9E-10	mg/m^3	R	1.3E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.1E-14
	Benzo(k)fluoranthene	2.9E-01	mg/kg	5.9E-10	mg/m^3	R	1.3E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.1E-14
	Chrysene	1.1E+00	mg/kg	2.2E-09	mg/m^3	R	5.0E-13	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.9E-14
	Dibenzo(a,h)anthracene	2.5E-02	mg/kg	5.1E-11	mg/m^3	R	1.1E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.6E-14
	Indeno(1,2,3-cd)pyrene	1.5E-01	mg/kg	3.0E-10	mg/m^3	R	6.8E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.6E-14
										Total Risk Across All Exposure Routes/Pathways	1.7E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.32.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-76
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	4.2E-07	--	3.6E-07	7.8E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	3.1E-06	--	2.7E-06	5.8E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.2E-07	--	1.0E-07	2.3E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.2E-07	--	1.0E-07	2.3E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	4.6E-08	--	4.0E-08	8.6E-08	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.6E-08	--	3.1E-08	6.7E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	6.3E-08	--	5.4E-08	1.2E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	3.9E-06	--	3.4E-06	7.3E-06	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	3.1E-11	--	3.1E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.3E-10	--	2.3E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	8.9E-12	--	8.9E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	8.9E-12	--	8.9E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	3.4E-12	--	3.4E-12	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	8.1E-12	--	8.1E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	4.6E-12	--	4.6E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	2.9E-10	--	2.9E-10	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	1.7E-05	--	1.7E-05
			Tetrachloroethene	--	3.8E-08	--	3.8E-08	Tetrachloroethene	Liver/Kidney	--	5.0E-04	--	5.0E-04
			(Total)	--	3.8E-08	--	3.8E-08	(Total)		--	5.2E-04	--	5.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.3E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.32.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-76
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.9E-06	--	7.7E-07	2.6E-06	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.4E-05	--	5.7E-06	2.0E-05	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.4E-07	--	2.2E-07	7.7E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	5.4E-07	--	2.2E-07	7.7E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.1E-07	--	8.5E-08	2.9E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.6E-07	--	6.6E-08	2.3E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.8E-07	--	1.2E-07	4.0E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.8E-05	--	7.2E-06	2.5E-05	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	8.7E-11	--	8.7E-11	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	6.4E-10	--	6.4E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.5E-11	--	2.5E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.5E-11	--	2.5E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	9.6E-12	--	9.6E-12	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.3E-11	--	2.3E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.3E-11	--	1.3E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	8.3E-10	--	8.3E-10	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	1.7E-04	--	1.7E-04
			Tetrachloroethene	--	2.5E-07	--	2.5E-07	Tetrachloroethene	Liver/Kidney	--	5.1E-03	--	5.1E-03
			(Total)	--	2.5E-07	--	2.5E-07	(Total)		--	5.3E-03	--	5.3E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.5E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.5E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.3E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.32.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-76
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	4.4E-09	--	1.7E-09	6.2E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	3.3E-08	--	1.3E-08	4.6E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.3E-09	--	5.0E-10	1.8E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.3E-09	--	5.0E-10	1.8E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	4.9E-10	--	1.9E-10	6.8E-10	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.8E-10	--	1.5E-10	5.3E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	6.6E-10	--	2.6E-10	9.2E-10	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	4.1E-08	--	1.6E-08	5.7E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	1.8E-13	--	1.8E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.3E-12	--	1.3E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	5.1E-14	--	5.1E-14	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	5.1E-14	--	5.1E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.9E-14	--	1.9E-14	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.6E-14	--	4.6E-14	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	2.6E-14	--	2.6E-14	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.7E-12	--	1.7E-12	(Total)		--	--	--	--

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-803	**EAPC No.:** 33

RME Exposure Scenario

TABLE 7.33.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	5.8E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	5.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	8.9E-11	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Toluene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	2.9E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.3E-05
	Xylenes	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.7E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	3.3E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	7.5E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	6.1E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	8.9E-11	mg/m^3	R	5.7E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	1.2E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Toluene	4.6E-05	mg/m^3	4.6E-05	mg/m^3	M	2.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E-04
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.6E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	6.7E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	3.4E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	5.9E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.3E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.33.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	2.6E-01	mg/kg	5.3E-10	mg/m^3	R	8.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.9E-02	mg/kg	1.2E-10	mg/m^3	R	1.9E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.6E-11	mg/m^3	R	4.1E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.33.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	9.1E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.1E-06
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	2.1E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.5E-08
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	4.5E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.9E-08
	(Total)										1.1E-06
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	7.8E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.4E-07
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	1.8E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-08
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	3.9E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-08
	(Total)										9.7E-07
										Total Risk Across All Exposure Routes/Pathways	2.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	2.0E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.0E-11
	Benzo(k)fluoranthene	5.9E-02	mg/kg	8.9E-11	mg/m^3	R	4.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-12
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	1.0E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.2E-12
										Total Risk Across All Exposure Routes/Pathways	8.6E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Toluene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	1.0E-06	mg/kg-day	--	--	--
	Xylenes	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	5.5E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.1E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.9E-06
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	9.2E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-07
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	2.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	8.3E-08
	(Total)										5.1E-06
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.7E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.0E-06
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	3.8E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.5E-08
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	8.4E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.4E-08
	(Total)										2.1E-06
										Total Risk Across All Exposure Routes/Pathways	7.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	5.8E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-10
	Benzo(k)fluoranthene	5.9E-02	mg/kg	8.9E-11	mg/m^3	R	1.3E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.1E-12
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-11
										Total Risk Across All Exposure Routes/Pathways	2.4E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Toluene	4.6E-05	mg/m^3	4.6E-05	mg/m^3	M	6.8E-06	mg/kg-day	--	--	--
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.7E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	9.6E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.2E-08
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	2.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.6E-10
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	4.8E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.0E-10
	(Total)										1.2E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.5E-09
	Benzo(k)fluoranthene	5.9E-02	mg/kg	5.9E-02	mg/kg	M	8.5E-11	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.0E-10
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	1.3E-02	mg/kg	M	1.9E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.7E-11
	(Total)										4.7E-09
										Total Risk Across All Exposure Routes/Pathways	1.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: 7351-34-803
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	2.6E-01	mg/kg	5.3E-10	mg/m^3	R	1.2E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.6E-13
	Benzo(k)fluoranthene	5.9E-02	mg/kg	1.2E-10	mg/m^3	R	2.7E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-14
	Dibenzo(a,h)anthracene	1.3E-02	mg/kg	2.6E-11	mg/m^3	R	5.9E-15	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.4E-14
										Total Risk Across All Exposure Routes/Pathways	4.9E-13

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.33.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-803
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	1.1E-06	--	9.4E-07	2.0E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	2.5E-08	--	2.1E-08	4.6E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.9E-08	--	1.6E-08	3.5E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	1.1E-06	--	9.7E-07	2.1E-06	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	8.0E-11	--	8.0E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.8E-12	--	1.8E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.2E-12	--	4.2E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	8.6E-11	--	8.6E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Toluene	--	--	--	--	Toluene	CNS	--	3.3E-05	--	3.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.7E-06	--	7.7E-06
			(Total)	--	--	--	--	(Total)		--	4.1E-05	--	4.1E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.1E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.1E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.33.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-803
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	4.9E-06	--	2.0E-06	6.9E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	1.1E-07	--	4.5E-08	1.6E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	8.3E-08	--	3.4E-08	1.2E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	5.1E-06	--	2.1E-06	7.2E-06	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	2.3E-10	--	2.3E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	--	5.1E-12	--	5.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.2E-11	--	1.2E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	2.4E-10	--	2.4E-10	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Toluene	--	--	--	--	Toluene	CNS	--	3.4E-04	--	3.4E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.9E-05	--	7.9E-05
			(Total)	--	--	--	--	(Total)		--	4.2E-04	--	4.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.33.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-803
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	1.2E-08	--	4.5E-09	1.6E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	2.6E-10	--	1.0E-10	3.6E-10	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.0E-10	--	7.7E-11	2.7E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	1.2E-08	--	4.7E-09	1.7E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	4.6E-13	--	4.6E-13	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.0E-14	--	1.0E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.4E-14	--	2.4E-14	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	4.9E-13	--	4.9E-13	(Total)		--	--	--	--

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-901	**EAPC No.:** 34

RME Exposure Scenario

TABLE 7.34.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.8E-02
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	6.8E-06	mg/kg-day	1.0E-03	mg/kg-day	6.8E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	5.4E-04	mg/kg-day	1.4E-01	mg/kg-day	3.8E-03
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.6E-04	mg/kg-day	7.0E-03	mg/kg-day	2.2E-02
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	8.9E-06	mg/kg-day	5.0E-04	mg/kg-day	1.8E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	(Total)										1.5E-01
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.5E-04
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.0E-05	mg/kg-day	7.0E-03	mg/kg-day	1.5E-03
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	5.2E-07	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	1.8E-06	mg/kg-day	5.0E-04	mg/kg-day	3.5E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	(Total)										2.5E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.6E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.7E-04
	Cadmium	7.0E+00	mg/kg	1.1E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.1E-03
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	3.5E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	5.9E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.8E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	2.0E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.8E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.8E-02
	Cadmium	7.6E+00	mg/kg	7.6E+00	mg/kg	M	7.4E-06	mg/kg-day	1.0E-03	mg/kg-day	7.4E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	5.4E-04	mg/kg-day	1.4E-01	mg/kg-day	3.8E-03
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.6E-04	mg/kg-day	7.0E-03	mg/kg-day	2.2E-02
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	8.9E-06	mg/kg-day	5.0E-04	mg/kg-day	1.8E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	(Total)										1.5E-01
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
	Cadmium	7.6E+00	mg/kg	7.6E+00	mg/kg	M	4.9E-08	mg/kg-day	1.0E-03	mg/kg-day	4.9E-05
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.5E-04
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.0E-05	mg/kg-day	7.0E-03	mg/kg-day	1.5E-03
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	5.2E-07	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	1.8E-06	mg/kg-day	5.0E-04	mg/kg-day	3.5E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	(Total)										2.5E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.6E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.7E-04
	Cadmium	7.6E+00	mg/kg	1.1E-08	mg/m^3	R	1.7E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.9E-04
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.1E-03
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	3.5E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	5.9E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.8E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	2.0E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.8E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.7E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.8E-04	mg/kg-day	3.0E-04	mg/kg-day	1.3E+00
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	7.0E-03	mg/kg-day	1.4E-01	mg/kg-day	5.0E-02
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.0E-03	mg/kg-day	7.0E-03	mg/kg-day	2.9E-01
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	3.5E-05	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	1.2E-04	mg/kg-day	5.0E-04	mg/kg-day	2.3E-01
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.0E-06	mg/kg-day	--	--	--
	(Total)										2.0E+00
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	3.0E-07	mg/kg-day	1.0E-03	mg/kg-day	3.0E-04
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	5.7E-05	mg/kg-day	7.0E-03	mg/kg-day	8.2E-03
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	2.9E-06	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	9.8E-06	mg/kg-day	5.0E-04	mg/kg-day	2.0E-02
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	(Total)										1.4E-01
										Total Hazard Index Across All Exposure Routes/Pathways	2.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.9E-08	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.4E-03
	Cadmium	8.4E+00	mg/kg	1.3E-08	mg/m^3	R	8.1E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.4E-03
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	5.3E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	9.2E-03
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	1.5E-07	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	2.6E-09	mg/kg-day	--	--	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	2.1E-09	mg/kg-day	--	--	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	8.7E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	3.0E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	2.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.7E-06	mg/kg-day	3.0E-04	mg/kg-day	2.6E-02
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.0E-03
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	4.1E-05	mg/kg-day	7.0E-03	mg/kg-day	5.9E-03
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.7E-07	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	2.4E-06	mg/kg-day	5.0E-04	mg/kg-day	4.7E-03
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	8.0E-08	mg/kg-day	--	--	--
	(Total)										4.0E-02
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.0E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	6.5E-09	mg/kg-day	1.0E-03	mg/kg-day	6.5E-06
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	4.3E-06	mg/kg-day	1.4E-01	mg/kg-day	3.0E-05
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.2E-06	mg/kg-day	7.0E-03	mg/kg-day	1.8E-04
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	6.3E-08	mg/kg-day	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.1E-08	mg/kg-day	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	2.1E-07	mg/kg-day	5.0E-04	mg/kg-day	4.2E-04
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	3.1E-08	mg/kg-day	--	--	--
	(Total)										3.0E-03
										Total Hazard Index Across All Exposure Routes/Pathways	4.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.34.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	3.0E+01	mg/kg	6.1E-08	mg/m^3	R	9.5E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.1E-04
	Cadmium	8.4E+00	mg/kg	1.7E-08	mg/m^3	R	2.7E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.7E-05
	Manganese	5.5E+02	mg/kg	1.1E-06	mg/m^3	R	1.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.0E-04
	Vanadium	1.6E+02	mg/kg	3.2E-07	mg/m^3	R	5.1E-09	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	2.7E+00	mg/kg	5.5E-09	mg/m^3	R	8.6E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDE	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	7.0E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	9.1E+00	mg/kg	1.8E-08	mg/m^3	R	2.9E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.1E-01	mg/kg	6.3E-10	mg/m^3	R	9.8E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.34.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-05	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.6E-05
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	5.6E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	9.4E-07	mg/kg-day	2.4E-01	mg/kg-day^{-1}	2.3E-07
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.7E-07	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.6E-07
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	3.2E-06	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.1E-06
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.3E-07
	(Total)										1.7E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day^{-1}	3.1E-06
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.9E-07	mg/kg-day	2.4E-01	mg/kg-day^{-1}	4.5E-08
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-07	mg/kg-day	3.4E-01	mg/kg-day^{-1}	5.2E-08
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	6.3E-07	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.1E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	9.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.1E-07
	(Total)										3.5E-06
										Total Risk Across All Exposure Routes/Pathways	2.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Cadmium	7.0E+00	mg/kg	1.1E-08	mg/m^3	R	5.5E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.3E-09
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	4.3E-08	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	1.3E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	2.1E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	5.1E-11
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.7E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	5.9E-11
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	7.2E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.4E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-12
										Total Risk Across All Exposure Routes/Pathways	3.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.6E-05
	Cadmium	7.6E+00	mg/kg	7.6E+00	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	5.6E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	9.4E-07	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	2.3E-07
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.7E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.6E-07
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	3.2E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.1E-06
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.3E-07
	(Total)										1.7E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.1E-06
	Cadmium	7.6E+00	mg/kg	7.6E+00	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.9E-07	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	4.5E-08
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	5.2E-08
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	6.3E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.1E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	9.3E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.1E-07
	(Total)										3.5E-06
										Total Risk Across All Exposure Routes/Pathways	2.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	2.4E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Cadmium	7.6E+00	mg/kg	1.1E-08	mg/m^3	R	5.9E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.9E-09
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	4.3E-08	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	1.3E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	2.1E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	5.1E-11
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.7E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	5.9E-11
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	7.2E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.4E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	2.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-12
										Total Risk Across All Exposure Routes/Pathways	3.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.2E-06
										Total Risk Across All Exposure Routes/Pathways	6.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.7E-05	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.0E-05
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	8.6E-04	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.5E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	4.2E-06	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	1.0E-06
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.4E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.2E-06
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	1.4E-05	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	4.8E-06
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.9E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.8E-07
	(Total)										7.8E-05
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.7E-06
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	4.2E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.7E-05	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.9E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	4.0E-07	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	9.6E-08
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.3E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.1E-07
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	1.3E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	4.6E-07
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	2.0E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	2.4E-07
	(Total)										7.6E-06
										Total Risk Across All Exposure Routes/Pathways	8.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	4.5E-08	mg/m^3	R	6.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	8.0E-08
	Cadmium	8.4E+00	mg/kg	1.3E-08	mg/m^3	R	1.9E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.8E-08
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	1.2E-07	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	2.4E-07	mg/m^3	R	3.6E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	4.1E-09	mg/m^3	R	6.0E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-10
	4,4'-DDE	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	4.9E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.7E-10
	4,4'-DDT	9.1E+00	mg/kg	1.4E-08	mg/m^3	R	2.0E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	6.9E-10
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	4.7E-10	mg/m^3	R	6.9E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.7E-11
										Total Risk Across All Exposure Routes/Pathways	1.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.0E-05
										Total Risk Across All Exposure Routes/Pathways	5.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.7E-07
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	3.1E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	5.9E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	1.0E-08	mg/kg-day	2.4E-01	mg/kg-day^{-1}	2.4E-09
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.1E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.8E-09
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	3.4E-08	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.1E-08
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.4E-09
	(Total)										1.8E-07
Dermal	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.5E-08
	Cadmium	8.4E+00	mg/kg	8.4E+00	mg/kg	M	9.3E-11	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	6.1E-08	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	2.7E+00	mg/kg	M	9.0E-10	mg/kg-day	2.4E-01	mg/kg-day^{-1}	2.2E-10
	4,4'-DDE	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.3E-10	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.5E-10
	4,4'-DDT	9.1E+00	mg/kg	9.1E+00	mg/kg	M	3.0E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.0E-09
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	3.1E-01	mg/kg	M	4.5E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.4E-10
	(Total)										1.7E-08
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	3.0E+01	mg/kg	6.1E-08	mg/m^3	R	1.4E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.6E-10
	Cadmium	8.4E+00	mg/kg	1.7E-08	mg/m^3	R	3.8E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.7E-11
	Manganese	5.5E+02	mg/kg	1.1E-06	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--
	Vanadium	1.6E+02	mg/kg	3.2E-07	mg/m^3	R	7.2E-11	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	2.7E+00	mg/kg	5.5E-09	mg/m^3	R	1.2E-12	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	2.9E-13
	4,4'-DDE	2.2E+00	mg/kg	4.5E-09	mg/m^3	R	1.0E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	3.4E-13
	4,4'-DDT	9.1E+00	mg/kg	1.8E-08	mg/m^3	R	4.1E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-12
	SVOCs										
	Benzo(a)anthracene	3.1E-01	mg/kg	6.3E-10	mg/m^3	R	1.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.5E-14
										Total Risk Across All Exposure Routes/Pathways	2.2E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.34.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	1.6E-05	--	3.1E-06	1.9E-05	Arsenic	Skin	9.8E-02	--	1.9E-02	1.2E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	6.8E-03	--	4.5E-05	6.9E-03
			Manganese	--	--	--	--	Manganese	CNS	3.8E-03	--	2.5E-04	4.1E-03
			Vanadium	--	--	--	--	Vanadium	Liver	2.2E-02	--	1.5E-03	2.4E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	2.3E-07	--	4.5E-08	2.7E-07	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	2.6E-07	--	5.2E-08	3.1E-07	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	1.1E-06	--	2.1E-07	1.3E-06	4,4'-DDT	Liver	1.8E-02	--	3.5E-03	2.1E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.3E-07	--	1.1E-07	2.4E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.7E-05	--	3.5E-06	2.1E-05	(Total)		1.5E-01	--	2.5E-02	1.7E-01
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.8E-08	--	2.8E-08	Arsenic	Skin	--	7.7E-04	--	7.7E-04
			Cadmium	--	8.3E-09	--	8.3E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.1E-03	--	2.1E-03
			Vanadium	--	--	--	--	Vanadium	Liver	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	5.1E-11	--	5.1E-11	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	5.9E-11	--	5.9E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.4E-10	--	2.4E-10	4,4'-DDT	Liver	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	9.5E-12	--	9.5E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.7E-08	--	3.7E-08	(Total)		--	3.2E-03	--	3.2E-03

TABLE 9.34.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.6E-05	--	3.1E-06	1.9E-05	Arsenic	Skin	9.8E-02	--	1.9E-02	1.2E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	7.4E-03	--	4.9E-05	7.4E-03
			Manganese	--	--	--	--	Manganese	CNS	3.8E-03	--	2.5E-04	4.1E-03
			Vanadium	--	--	--	--	Vanadium	Liver	2.2E-02	--	1.5E-03	2.4E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	2.3E-07	--	4.5E-08	2.7E-07	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	2.6E-07	--	5.2E-08	3.1E-07	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	1.1E-06	--	2.1E-07	1.3E-06	4,4'-DDT	Liver	1.8E-02	--	3.5E-03	2.1E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.3E-07	--	1.1E-07	2.4E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.7E-05	--	3.5E-06	2.1E-05	(Total)		1.5E-01	--	2.5E-02	1.7E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.8E-08	--	2.8E-08	Arsenic	Developmental	--	7.7E-04	--	7.7E-04
			Cadmium	--	8.9E-09	--	8.9E-09	Cadmium	Kidney	--	2.9E-04	--	2.9E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.1E-03	--	2.1E-03
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	5.1E-11	--	5.1E-11	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	5.9E-11	--	5.9E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.4E-10	--	2.4E-10	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	9.5E-12	--	9.5E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.8E-08	--	3.8E-08	(Total)		--	3.2E-03	--	3.2E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	6.2E-06	--	6.2E-06	Benzene	Blood	--	1.0E-02	--	1.0E-02
			(Total)	--	6.2E-06	--	6.2E-06	(Total)		--	1.0E-02	--	1.0E-02

Total Risk Across Surface Soil =	2.1E-05	Total Hazard Index Across Surface Soil =	1.8E-01
Total Risk Across Shallow Soil (0-15' bgs) =	2.1E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.8E-01
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	6.2E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	1.0E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.34.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	7.0E-05	--	6.7E-06	7.7E-05	Arsenic	Skin	1.3E+00	--	1.1E-01	1.4E+00
			Cadmium	--	--	--	--	Cadmium	Kidney	1.1E-01	--	3.0E-04	1.1E-01
			Manganese	--	--	--	--	Manganese	CNS	5.0E-02	--	1.4E-03	5.2E-02
			Vanadium	--	--	--	--	Vanadium	Liver	2.9E-01	--	8.2E-03	3.0E-01
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	1.0E-06	--	9.6E-08	1.1E-06	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.2E-06	--	1.1E-07	1.3E-06	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	4.8E-06	--	4.6E-07	5.3E-06	4,4'-DDT	Liver	2.3E-01	--	2.0E-02	2.5E-01
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	5.8E-07	--	2.4E-07	8.2E-07	Benzo(a)anthracene	--	--	--	--	--
			(Total)	7.8E-05	--	7.6E-06	8.6E-05	(Total)		2.0E+00	--	1.4E-01	2.1E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	8.0E-08	--	8.0E-08	Arsenic	Developmental	--	3.4E-03	--	3.4E-03
			Cadmium	--	2.8E-08	--	2.8E-08	Cadmium	Kidney	--	1.4E-03	--	1.4E-03
			Manganese	--	--	--	--	Manganese	CNS	--	9.2E-03	--	9.2E-03
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	1.4E-10	--	1.4E-10	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	1.7E-10	--	1.7E-10	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	6.9E-10	--	6.9E-10	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.7E-11	--	2.7E-11	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	1.1E-07	--	1.1E-07	(Total)		--	1.4E-02	--	1.4E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.0E-05	--	5.0E-05	Benzene	Blood	--	1.3E-01	--	1.3E-01
			(Total)	--	5.0E-05	--	5.0E-05	(Total)		--	1.3E-01	--	1.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.6E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.1E+00
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	5.0E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	1.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.34.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.7E-07	--	1.5E-08	1.8E-07	Arsenic	Skin	2.6E-02	--	2.3E-03	2.8E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	2.2E-03	--	6.5E-06	2.2E-03
			Manganese	--	--	--	--	Manganese	CNS	1.0E-03	--	3.0E-05	1.0E-03
			Vanadium	--	--	--	--	Vanadium	Liver	5.9E-03	--	1.8E-04	6.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	2.4E-09	--	2.2E-10	2.6E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	2.8E-09	--	2.5E-10	3.0E-09	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	1.1E-08	--	1.0E-09	1.2E-08	4,4'-DDT	Liver	4.7E-03	--	4.2E-04	5.1E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.4E-09	--	5.4E-10	1.9E-09	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.8E-07	--	1.7E-08	2.0E-07	(Total)		4.0E-02	--	3.0E-03	4.3E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.6E-10	--	1.6E-10	Arsenic	Developmental	--	1.1E-04	--	1.1E-04
			Cadmium	--	5.7E-11	--	5.7E-11	Cadmium	Kidney	--	4.7E-05	--	4.7E-05
			Manganese	--	--	--	--	Manganese	CNS	--	3.0E-04	--	3.0E-04
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	2.9E-13	--	2.9E-13	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	3.4E-13	--	3.4E-13	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	1.4E-12	--	1.4E-12	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	5.5E-14	--	5.5E-14	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	2.2E-10	--	2.2E-10	(Total)		--	4.6E-04	--	4.6E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.0E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.3E-02
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Magellan Dr	**EAPC No.:** 35

RME Exposure Scenario

TABLE 7.35.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	3.8E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.5E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	4.5E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	2.2E-03	mg/kg	M	2.2E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	5.1E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.7E-06	mg/kg-day	4.0E-03	mg/kg-day	4.2E-04
	(Total)										4.2E-04
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	3.3E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	3.9E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	2.2E-03	mg/kg	M	1.9E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	4.4E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.1E-06	mg/kg-day	4.0E-03	mg/kg-day	2.8E-04
	(Total)										2.8E-04
										Total Hazard Index Across All Exposure Routes/Pathways	6.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	8.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	3.9E-09	mg/m^3	R	5.7E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	3.1E-10	mg/kg-day	--	--	--	--	--
	Chrysene	4.6E+00	mg/kg	6.9E-09	mg/m^3	R	1.0E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	3.3E-12	mg/m^3	R	4.9E-13	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	1.1E-10	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.7E+00	mg/kg	3.2E-04	mg/m^3	R	4.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	3.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-01
	sec-Butylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.8E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	9.4E-05
	Ethylbenzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	2.0E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.5E-02
	Isopropylbenzene	9.0E-02	mg/m^3	9.0E-02	mg/m^3	M	1.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.2E-01
	Naphthalene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	3.0E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.2E-05
	n-Propylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.5E-03
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.8E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.8E-02
	Toluene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	7.5E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	5.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	4.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-01
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	5.0E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	3.3E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.5E-05	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	5.9E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	6.6E-06	mg/kg-day	--	--	--
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	8.2E-05	mg/kg-day	4.0E-03	mg/kg-day	2.0E-02
	(Total)										2.0E-02
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	5.6E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	6.5E-06	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	2.1E-05	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	2.3E-05	mg/kg-day	4.0E-03	mg/kg-day	5.7E-03
	(Total)										5.7E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	3.7E-09	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	3.9E-09	mg/m^3	R	2.5E-09	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	1.2E-09	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	1.3E-09	mg/kg-day	--	--	--	--	--
	Chrysene	4.6E+00	mg/kg	6.9E-09	mg/m^3	R	4.4E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	5.0E-10	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	6.4E+00	mg/kg	1.1E-03	mg/m^3	R	6.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	1.2E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.9E+00
	sec-Butylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	7.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-03
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	7.8E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E+00
	Isopropylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	3.1E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	2.8E+00
	Naphthalene	9.2E-07	mg/m^3	9.2E-07	mg/m^3	M	5.9E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-04
	n-Propylbenzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	4.2E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.1E-01
	Tetrachloroethene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	3.0E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.0E+00
	Toluene	4.6E-01	mg/m^3	4.6E-01	mg/m^3	M	2.9E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E+00
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.9E-02	mg/m^3	7.9E-02	mg/m^3	M	5.1E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E+00
												Total Hazard Index Across All Exposure Routes/Pathways	3.0E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	6.7E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-07	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	1.2E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	1.7E-06	mg/kg-day	4.0E-03	mg/kg-day	4.1E-04
	(Total)										4.1E-04
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	3.9E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.4E-07	mg/kg-day	--	--	--
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	4.6E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	5.0E-07	mg/kg-day	4.0E-03	mg/kg-day	1.2E-04
	(Total)										1.2E-04
										Total Hazard Index Across All Exposure Routes/Pathways	5.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.35.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.9E+00	mg/kg	7.9E-09	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.6E+00	mg/kg	5.3E-09	mg/m^3	R	8.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	3.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.8E-09	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Chrysene	4.6E+00	mg/kg	9.3E-09	mg/m^3	R	1.5E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	3.0E-10	mg/m^3	R	4.8E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	1.1E-09	mg/m^3	R	1.6E-11	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	6.4E+00	mg/kg	2.9E-03	mg/m^3	R	4.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.35.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.4E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-06
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	9.1E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.1E-05
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.2E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.0E-07
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	4.9E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.9E-07
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	1.6E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.9E-07
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	2.2E-03	mg/kg	M	7.7E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.2E-09
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	1.8E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.2E-07
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.0E-07	mg/kg-day	1.0E-01	mg/kg-day^{-1}	6.0E-08
	(Total)										1.4E-05
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.2E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.4E-06
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	7.8E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	9.4E-06
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.6E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.3E-07
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	4.2E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.0E-07
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	1.4E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.7E-07
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	2.2E-03	mg/kg	M	6.6E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.7E-09
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-07
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.9E-07	mg/kg-day	1.0E-01	mg/kg-day^{-1}	3.9E-08
	(Total)										1.2E-05
										Total Risk Across All Exposure Routes/Pathways	2.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	3.1E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-10
	Benzo(a)pyrene	2.6E+00	mg/kg	3.9E-09	mg/m^3	R	2.0E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.0E-10
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	9.4E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-11
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	1.1E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.3E-11
	Chrysene	4.6E+00	mg/kg	6.9E-09	mg/m^3	R	3.6E-10	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.4E-11
	Dibenzo(a,h)anthracene	2.2E-03	mg/kg	3.3E-12	mg/m^3	R	1.7E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.1E-13
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	4.1E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.6E-11
	VOCs										
	Benzene	1.7E+00	mg/kg	3.2E-04	mg/m^3	R	1.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-06
										Total Risk Across All Exposure Routes/Pathways	1.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-04
	sec-Butylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Ethylbenzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	7.2E-03	mg/kg-day	--	--	--
	Isopropylbenzene	9.0E-02	mg/m^3	9.0E-02	mg/m^3	M	4.7E-03	mg/kg-day	--	--	--
	Naphthalene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	1.1E-08	mg/kg-day	--	--	--
	n-Propylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	2.8E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.8E-06
	Toluene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	2.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-04
										Total Risk Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	6.1E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.3E-06
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	4.1E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.9E-05
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.9E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.3E-06
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.2E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.6E-06
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	7.2E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	8.6E-07
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	2.3E-07	mg/kg-day	4.1E+00	mg/kg-day^{-1}	9.6E-07
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	8.1E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.8E-07
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	1.0E-05	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.0E-06
	(Total)										6.5E-05
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	2.5E-06	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.0E-06
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.7E-06	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.0E-05
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	7.7E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.3E-07
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.0E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.1E-06
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	3.0E-06	mg/kg-day	1.2E-01	mg/kg-day^{-1}	3.5E-07
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.6E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	4.0E-07
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	3.3E-07	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.0E-07
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	3.2E-06	mg/kg-day	1.0E-01	mg/kg-day^{-1}	3.2E-07
	(Total)										2.7E-05
										Total Risk Across All Exposure Routes/Pathways	9.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	8.7E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.4E-10
	Benzo(a)pyrene	2.6E+00	mg/kg	3.9E-09	mg/m^3	R	5.8E-10	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.3E-09
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	2.7E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-10
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.1E-09	mg/m^3	R	3.1E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-10
	Chrysene	4.6E+00	mg/kg	6.9E-09	mg/m^3	R	1.0E-09	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	4.0E-11
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.4E-10
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	1.2E-10	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.5E-11
	VOCs										
	Benzene	6.4E+00	mg/kg	1.1E-03	mg/m^3	R	1.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-05
										Total Risk Across All Exposure Routes/Pathways	1.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	2.7E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-03
	sec-Butylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.7E-05	mg/kg-day	--	--	--
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	1.8E-01	mg/kg-day	--	--	--
	Isopropylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	7.3E-02	mg/kg-day	--	--	--
	Naphthalene	9.2E-07	mg/m^3	9.2E-07	mg/m^3	M	1.4E-07	mg/kg-day	--	--	--
	n-Propylbenzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	9.9E-04	mg/kg-day	--	--	--
	Tetrachloroethene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	6.9E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-04
	Toluene	4.6E-01	mg/m^3	4.6E-01	mg/m^3	M	6.8E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.9E-02	mg/m^3	7.9E-02	mg/m^3	M	1.2E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-03
										Total Risk Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.3.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.4E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.7E-08
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	9.6E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.2E-07
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.4E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.3E-09
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	5.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.2E-09
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	1.7E-08	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	2.0E-09
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	5.5E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.3E-09
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	1.9E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.3E-09
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	2.4E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-09
	(Total)										1.5E-07
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	3.9E+00	mg/kg	M	5.6E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.7E-09
	Benzo(a)pyrene	2.6E+00	mg/kg	2.6E+00	mg/kg	M	3.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.5E-08
	Benzo(b)fluoranthene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	1.7E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-09
	Benzo(k)fluoranthene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.0E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.4E-09
	Chrysene	4.6E+00	mg/kg	4.6E+00	mg/kg	M	6.6E-09	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	7.9E-10
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	2.2E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	8.9E-10
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	5.2E-01	mg/kg	M	7.5E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	9.0E-10
	VOCs										
	Benzene	6.4E+00	mg/kg	6.4E+00	mg/kg	M	7.1E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.1E-10
	(Total)										5.9E-08
										Total Risk Across All Exposure Routes/Pathways	2.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.3.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.9E+00	mg/kg	7.9E-09	mg/m^3	R	1.8E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.9E-13
	Benzo(a)pyrene	2.6E+00	mg/kg	5.3E-09	mg/m^3	R	1.2E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.6E-12
	Benzo(b)fluoranthene	1.2E+00	mg/kg	2.4E-09	mg/m^3	R	5.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.1E-13
	Benzo(k)fluoranthene	1.4E+00	mg/kg	2.8E-09	mg/m^3	R	6.3E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.5E-13
	Chrysene	4.6E+00	mg/kg	9.3E-09	mg/m^3	R	2.1E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	8.1E-14
	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	3.0E-10	mg/m^3	R	6.8E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.8E-13
	Indeno(1,2,3-cd)pyrene	5.2E-01	mg/kg	1.1E-09	mg/m^3	R	2.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.2E-14
	VOCs										
	Benzene	6.4E+00	mg/kg	2.9E-03	mg/m^3	R	6.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.4E-08
										Total Risk Across All Exposure Routes/Pathways	6.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.35.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.6E-06	--	1.4E-06	3.0E-06	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.1E-05	--	9.4E-06	2.0E-05	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.0E-07	--	4.3E-07	9.3E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	5.9E-07	--	5.0E-07	1.1E-06	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.9E-07	--	1.7E-07	3.6E-07	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.2E-09	--	2.7E-09	5.9E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.2E-07	--	1.9E-07	4.1E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	6.0E-08	--	3.9E-08	9.9E-08	Benzene	Blood	4.2E-04	--	2.8E-04	6.9E-04
			(Total)	1.4E-05	--	1.2E-05	2.6E-05	(Total)		4.2E-04	--	2.8E-04	6.9E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	1.2E-10	--	1.2E-10	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	8.0E-10	--	8.0E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.7E-11	--	3.7E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	4.3E-11	--	4.3E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.4E-11	--	1.4E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	7.1E-13	--	7.1E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.6E-11	--	1.6E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	1.7E-06	--	1.7E-06	Benzene	Blood	--	2.7E-03	--	2.7E-03
			(Total)	--	1.7E-06	--	1.7E-06	(Total)		--	2.7E-03	--	2.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.1E-04	--	1.1E-04	Benzene	Blood	--	1.8E-01	--	1.8E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	9.4E-05	--	9.4E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.5E-02	--	3.5E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	1.2E-01	--	1.2E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.2E-05	--	1.2E-05
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.5E-03	--	4.5E-03
			Tetrachloroethene	--	5.8E-06	--	5.8E-06	Tetrachloroethene	Liver/Kidney	--	7.8E-02	--	7.8E-02
			Toluene	--	--	--	--	Toluene	CNS	--	8.7E-02	--	8.7E-02
			(Total)	--	1.2E-04	--	1.2E-04	(Total)		--	5.0E-01	--	5.0E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.8E-04	--	1.8E-04	Benzene	Blood	--	2.9E-01	--	2.9E-01
			(Total)	--	1.8E-04	--	1.8E-04	(Total)		--	2.9E-01	--	2.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.8E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.4E-03
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.0E-01
Total Risk for Deep Soil-to-Indoor Air =	1.8E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	2.9E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.35.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	7.3E-06	--	3.0E-06	1.0E-05	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.9E-05	--	2.0E-05	6.9E-05	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.3E-06	--	9.3E-07	3.2E-06	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.6E-06	--	1.1E-06	3.7E-06	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	8.6E-07	--	3.5E-07	1.2E-06	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	9.6E-07	--	4.0E-07	1.4E-06	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	9.8E-07	--	4.0E-07	1.4E-06	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	1.0E-06	--	3.2E-07	1.3E-06	Benzene	Blood	2.0E-02	--	5.7E-03	2.6E-02
			(Total)	6.5E-05	--	2.7E-05	9.1E-05	(Total)		2.0E-02	--	5.7E-03	2.6E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	3.4E-10	--	3.4E-10	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.3E-09	--	2.3E-09	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.0E-10	--	1.0E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.2E-10	--	1.2E-10	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	4.0E-11	--	4.0E-11	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.4E-10	--	1.4E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	4.5E-11	--	4.5E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	1.6E-05	--	1.6E-05	Benzene	Blood	--	4.0E-02	--	4.0E-02
			(Total)	--	1.6E-05	--	1.6E-05	(Total)		--	4.0E-02	--	4.0E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.7E-03	--	2.7E-03	Benzene	Blood	--	6.9E+00	--	6.9E+00
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.9E-03	--	1.9E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E+00	--	1.4E+00
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	2.8E+00	--	2.8E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-04	--	2.3E-04
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	1.1E-01	--	1.1E-01
			Tetrachloroethene	--	1.4E-04	--	1.4E-04	Tetrachloroethene	Liver/Kidney	--	3.0E+00	--	3.0E+00
			Toluene	--	--	--	--	Toluene	CNS	--	3.4E+00	--	3.4E+00
			(Total)	--	2.9E-03	--	2.9E-03	(Total)		--	1.8E+01	--	1.8E+01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.2E-03	--	1.2E-03	Benzene	Blood	--	3.0E+00	--	3.0E+00
			(Total)	--	1.2E-03	--	1.2E-03	(Total)		--	3.0E+00	--	3.0E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.1E-04	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.7E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.9E-03	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.8E+01
Total Risk for Deep Soil-to-Indoor Air =	1.2E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	3.0E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.35.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.7E-08	--	6.7E-09	2.4E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.2E-07	--	4.5E-08	1.6E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.3E-09	--	2.1E-09	7.4E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	6.2E-09	--	2.4E-09	8.6E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.0E-09	--	7.9E-10	2.8E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.3E-09	--	8.9E-10	3.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.3E-09	--	9.0E-10	3.2E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	2.4E-09	--	7.1E-10	3.1E-09	Benzene	Blood	4.1E-04	--	1.2E-04	5.4E-04
			(Total)	1.5E-07	--	5.9E-08	2.1E-07	(Total)		4.1E-04	--	1.2E-04	5.4E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	6.9E-13	--	6.9E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.6E-12	--	4.6E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.1E-13	--	2.1E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.5E-13	--	2.5E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	8.1E-14	--	8.1E-14	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.8E-13	--	2.8E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	9.2E-14	--	9.2E-14	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	6.4E-08	--	6.4E-08	Benzene	Blood	--	2.6E-03	--	2.6E-03
			(Total)	--	6.4E-08	--	6.4E-08	(Total)		--	2.6E-03	--	2.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.8E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.1E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (N)	**EAPC No.:** 36

RME Exposure Scenario

TABLE 7.36.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	1.7E-05	mg/kg-day	1.0E-03	mg/kg-day	1.7E-02
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	5.2E-04	mg/kg-day	1.4E-01	mg/kg-day	3.7E-03
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	9.8E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	9.8E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	9.8E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	(Total)										2.0E-02
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	1.1E-04
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	3.4E-05	mg/kg-day	1.4E-01	mg/kg-day	2.4E-04
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	(Total)										3.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	2.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.7E+01	mg/kg	2.6E-08	mg/m^3	R	3.7E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	6.6E-04
	Manganese	5.3E+02	mg/kg	8.0E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.0E-03
	SVOCs												
	Benzo(a)anthracene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.1.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.9E-06	mg/m^3	7.9E-06	mg/m^3	M	1.2E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.7E-04
	1,3,5-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.2E-05
	4-Ethyl Toluene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.4E-06
	Benzene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-04
	Ethylbenzene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	3.4E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.0E-06
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	5.4E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.4E-04
	Xylenes	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	3.0E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.5E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	2.2E-04	mg/kg-day	1.0E-03	mg/kg-day	2.2E-01
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	6.8E-03	mg/kg-day	1.4E-01	mg/kg-day	4.8E-02
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	(Total)										2.7E-01
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	6.1E-07	mg/kg-day	1.0E-03	mg/kg-day	6.1E-04
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	1.9E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	4.7E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	4.7E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	4.7E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	(Total)										2.0E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.7E+01	mg/kg	2.6E-08	mg/m^3	R	1.6E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.9E-03
	Manganese	5.3E+02	mg/kg	8.0E-07	mg/m^3	R	5.1E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	8.9E-03
	SVOCs												
	Benzo(a)anthracene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	9.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	9.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	9.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.9E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.2E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.9E-03
	1,3,5-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.4E-04
	4-Ethyl Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	1.7E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.6E-05
	Benzene	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	4.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-03
	Ethylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	7.8E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-04
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Xylenes	9.5E-05	mg/m^3	9.5E-05	mg/m^3	M	6.0E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	4.4E-06	mg/kg-day	1.0E-03	mg/kg-day	4.4E-03
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	1.4E-04	mg/kg-day	1.4E-01	mg/kg-day	9.8E-04
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	(Total)										5.4E-03
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	1.3E-08	mg/kg-day	1.0E-03	mg/kg-day	1.3E-05
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	4.1E-06	mg/kg-day	1.4E-01	mg/kg-day	2.9E-05
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.0E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.0E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.0E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	(Total)										4.3E-05
										Total Hazard Index Across All Exposure Routes/Pathways	5.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.36.3.RME

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.7E+01	mg/kg	3.4E-08	mg/m^3	R	5.4E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	9.4E-05
	Manganese	5.3E+02	mg/kg	1.1E-06	mg/m^3	R	1.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.9E-04
	SVOCs												
	Benzo(a)anthracene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	3.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	3.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	3.2E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.36.1.RME

RME CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	5.9E-06	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	1.9E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.5E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.2E-08
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.5E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.2E-07
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.5E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.2E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.4E-08
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.9E-07
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.4E-08
	(Total)										9.6E-07
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.6E-08
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.0E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.6E-07
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.6E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.2E-08
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.5E-07
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.2E-08
	(Total)										8.2E-07
										Total Risk Across All Exposure Routes/Pathways	1.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	2.6E-08	mg/m^3	R	1.3E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.0E-08
	Manganese	5.3E+02	mg/kg	8.0E-07	mg/m^3	R	4.2E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	7.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.1E-12
	Benzo(a)pyrene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	7.9E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.1E-11
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	7.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.1E-12
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-12
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.5E-11
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-12
										Total Risk Across All Exposure Routes/Pathways	2.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.9E-06	mg/m^3	7.9E-06	mg/m^3	M	4.1E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	5.7E-08	mg/kg-day	--	--	--
	4-Ethyl Toluene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	6.0E-07	mg/kg-day	--	--	--
	Benzene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	7.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.6E-08
	Ethylbenzene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	1.2E-06	mg/kg-day	--	--	--
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	1.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.0E-08
	Xylenes	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	2.7E-05	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	8.3E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.9E-07
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.9E-06
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.6E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.9E-07
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.8E-07
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-06
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	3.1E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.8E-07
	(Total)										4.3E-06
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	2.6E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	6.4E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.7E-08
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	6.4E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.7E-07
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	6.4E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	7.7E-08
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-07
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.3E-07
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-07
	(Total)										1.8E-06
										Total Risk Across All Exposure Routes/Pathways	6.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	2.6E-08	mg/m^3	R	3.8E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.7E-08
	Manganese	5.3E+02	mg/kg	8.0E-07	mg/m^3	R	1.2E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.7E-12
	Benzo(a)pyrene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.7E-11
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	2.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.7E-12
	Benzo(k)fluoranthene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-11
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-10
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	4.5E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-11
										Total Risk Across All Exposure Routes/Pathways	5.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	2.7E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.8E-07	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	4.0E-06	mg/kg-day	--	--	--
	Benzene	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-06
	Ethylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.8E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
	Xylenes	9.5E-05	mg/m^3	9.5E-05	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	6.3E-08	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.4E-10
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.4E-09
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.4E-10
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.9E-10
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.0E-09
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	7.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	8.9E-10
	(Total)										1.0E-08
Dermal	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	1.7E+01	mg/kg	M	1.9E-10	mg/kg-day	--	--	--
	Manganese	5.3E+02	mg/kg	5.3E+02	mg/kg	M	5.9E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.7E-10
	Benzo(a)pyrene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.7E-09
	Benzo(b)fluoranthene	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.7E-10
	Benzo(k)fluoranthene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-10
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-09
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	2.9E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-10
	(Total)										3.9E-09
										Total Risk Across All Exposure Routes/Pathways	1.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.7E+01	mg/kg	3.4E-08	mg/m^3	R	7.7E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.2E-10
	Manganese	5.3E+02	mg/kg	1.1E-06	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	4.5E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-14
	Benzo(a)pyrene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	4.5E-14	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.8E-13
	Benzo(b)fluoranthene	1.0E-01	mg/kg	2.0E-10	mg/m^3	R	4.5E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-14
	Benzo(k)fluoranthene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.5E-14
	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.7E-13
	Indeno(1,2,3-cd)pyrene	2.0E-01	mg/kg	4.0E-10	mg/m^3	R	9.1E-14	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.5E-14
										Total Risk Across All Exposure Routes/Pathways	1.2E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.36.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.7E-02	--	1.1E-04	1.7E-02
			Manganese	--	--	--	--	Manganese	CNS	3.7E-03	--	2.4E-04	3.9E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.2E-08	--	3.6E-08	7.8E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.2E-07	--	3.6E-07	7.8E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.2E-08	--	3.6E-08	7.8E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.4E-08	--	7.2E-08	1.6E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.9E-07	--	2.5E-07	5.3E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	8.4E-08	--	7.2E-08	1.6E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	9.6E-07	--	8.2E-07	1.8E-06	(Total)		2.0E-02	--	3.5E-04	2.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.0E-08	--	2.0E-08	Cadmium	Kidney	--	6.6E-04	--	6.6E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.0E-03	--	2.0E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	3.1E-12	--	3.1E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	3.1E-11	--	3.1E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.1E-12	--	3.1E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	6.1E-12	--	6.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.5E-11	--	6.5E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	6.1E-12	--	6.1E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	2.0E-08	--	2.0E-08	(Total)		--	2.7E-03	--	2.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.7E-04	--	6.7E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	9.2E-05	--	9.2E-05
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.4E-06	--	8.4E-06
			Benzene	--	7.6E-08	--	7.6E-08	Benzene	Blood	--	1.2E-04	--	1.2E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.0E-06	--	6.0E-06
			Tetrachloroethene	--	4.0E-08	--	4.0E-08	Tetrachloroethene	Liver/Kidney	--	5.4E-04	--	5.4E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.5E-05	--	1.5E-05
			(Total)	--	1.2E-07	--	1.2E-07	(Total)		--	1.5E-03	--	1.5E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.8E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.3E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.5E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.36.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	2.2E-01	--	6.1E-04	2.2E-01
			Manganese	--	--	--	--	Manganese	CNS	4.8E-02	--	1.4E-03	5.0E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.9E-07	--	7.7E-08	2.6E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.9E-06	--	7.7E-07	2.6E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.9E-07	--	7.7E-08	2.6E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.8E-07	--	1.5E-07	5.3E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.3E-06	--	5.3E-07	1.8E-06	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.8E-07	--	1.5E-07	5.3E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	4.3E-06	--	1.8E-06	6.1E-06	(Total)		2.7E-01	--	2.0E-03	2.7E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	5.7E-08	--	5.7E-08	Cadmium	Kidney	--	2.9E-03	--	2.9E-03
			Manganese	--	--	--	--	Manganese	CNS	--	8.9E-03	--	8.9E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	8.7E-12	--	8.7E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	8.7E-11	--	8.7E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	8.7E-12	--	8.7E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.7E-11	--	1.7E-11	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.8E-10	--	1.8E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.7E-11	--	1.7E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	5.7E-08	--	5.7E-08	(Total)		--	1.2E-02	--	1.2E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.9E-03	--	6.9E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	9.4E-04	--	9.4E-04
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.6E-05	--	8.6E-05
			Benzene	--	1.1E-06	--	1.1E-06	Benzene	Blood	--	2.7E-03	--	2.7E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-04	--	1.4E-04
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.0E-04	--	3.0E-04
			(Total)	--	1.3E-06	--	1.3E-06	(Total)		--	1.7E-02	--	1.7E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.1E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.8E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.7E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.36.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	4.4E-03	--	1.3E-05	4.4E-03
			Manganese	--	--	--	--	Manganese	CNS	9.8E-04	--	2.9E-05	1.0E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.4E-10	--	1.7E-10	6.2E-10	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.4E-09	--	1.7E-09	6.2E-09	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	4.4E-10	--	1.7E-10	6.2E-10	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.9E-10	--	3.5E-10	1.2E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.0E-09	--	1.2E-09	4.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	8.9E-10	--	3.5E-10	1.2E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.0E-08	--	3.9E-09	1.4E-08	(Total)		5.4E-03	--	4.3E-05	5.4E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.2E-10	--	1.2E-10	Cadmium	Kidney	--	9.4E-05	--	9.4E-05
			Manganese	--	--	--	--	Manganese	CNS	--	2.9E-04	--	2.9E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.8E-14	--	1.8E-14	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.8E-13	--	1.8E-13	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.8E-14	--	1.8E-14	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.5E-14	--	3.5E-14	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.7E-13	--	3.7E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	3.5E-14	--	3.5E-14	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.2E-10	--	1.2E-10	(Total)		--	3.9E-04	--	3.9E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.4E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.8E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (S)	**EAPC No.:** 37

RME Exposure Scenario

TABLE 7.37.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	5.5E-04	mg/kg-day	1.4E-01	mg/kg-day	3.9E-03
	(Total)										1.8E-02
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.0E-08	mg/kg-day	1.0E-03	mg/kg-day	9.0E-05
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	3.6E-05	mg/kg-day	1.4E-01	mg/kg-day	2.6E-04
	(Total)										3.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.8E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	5.4E-04
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	1.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	2.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-04
	1,3,5-Trimethylbenzene	1.2E-07	mg/m^3	1.2E-07	mg/m^3	M	1.7E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.0E-05
	Benzene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	4.0E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.3E-04
	Chloroform	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	3.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.7E-05
	Ethylbenzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.1E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.7E-04
	Styrene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	1.6E-08	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.4E-08
	Tetrachloroethene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.6E-04
	Toluene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	6.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.6E-05
	Trichloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
	Xylenes	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.0E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	9.3E-07	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	2.3E-04
	1,2-Dichloroethane	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	1.3E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-03
	Benzene	7.0E-02	mg/m^3	7.0E-02	mg/m^3	M	1.0E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.0E-01
	Chloroform	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.5E-05
	Ethylbenzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.0E-03
	Toluene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.0E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.5E-04
	Trichloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	1.4E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	6.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.8E-04	mg/kg-day	1.0E-03	mg/kg-day	1.8E-01
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	7.2E-03	mg/kg-day	1.4E-01	mg/kg-day	5.1E-02
	(Total)										2.3E-01
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.0E-07	mg/kg-day	1.0E-03	mg/kg-day	5.0E-04
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	(Total)										1.9E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.3E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.4E-03
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	5.4E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	9.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	1,3,5-Trimethylbenzene	2.8E-07	mg/m^3	2.8E-07	mg/m^3	M	1.8E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.0E-04
	Benzene	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	4.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-03
	Chloroform	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	4.7E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.5E-04
	Ethylbenzene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	2.2E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.8E-03
	Styrene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	2.3E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.0E-04
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Toluene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	7.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.3E-04
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	3.3E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-04
	Xylenes	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	2.1E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	9.5E-06	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	2.4E-03
	1,2-Dichloroethane	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.3E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-02
	Benzene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.1E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.1E+00
	Chloroform	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	2.2E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.6E-04
	Ethylbenzene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	1.8E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-02
	Toluene	4.8E-04	mg/m^3	4.8E-04	mg/m^3	M	3.1E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.6E-03
	Trichloroethene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	1.4E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	6.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.6E-06	mg/kg-day	1.0E-03	mg/kg-day	3.6E-03
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	1.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.0E-03
	(Total)										4.6E-03
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-08	mg/kg-day	1.0E-03	mg/kg-day	1.1E-05
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	4.3E-06	mg/kg-day	1.4E-01	mg/kg-day	3.1E-05
	(Total)										4.2E-05
										Total Hazard Index Across All Exposure Routes/Pathways	4.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 7.37.3.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	4.4E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	7.8E-05
	Manganese	5.6E+02	mg/kg	1.1E-06	mg/m^3	R	1.8E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	3.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose

TABLE 8.37.1.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	4.9E-06	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.0E-04	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	1.3E-05	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	4.4E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.3E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.2E-07	mg/m^3	1.2E-07	mg/m^3	M	6.2E-09	mg/kg-day	--	--	--
	Benzene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	1.4E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.4E-07
	Chloroform	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.1E-08
	Ethylbenzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	7.6E-05	mg/kg-day	--	--	--
	Styrene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	5.8E-09	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-08
	Toluene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	2.3E-06	mg/kg-day	--	--	--
	Trichloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	7.9E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.5E-09
	Xylenes	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	7.4E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	3.3E-07	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.9E-08
	1,2-Dichloroethane	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	4.7E-05	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	3.4E-06
	Benzene	7.0E-02	mg/m^3	7.0E-02	mg/m^3	M	3.7E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.7E-04
	Chloroform	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	7.7E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Ethylbenzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	6.2E-04	mg/kg-day	--	--	--
	Toluene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Trichloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	5.1E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
										Total Risk Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	8.8E-04	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.8E-05	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.1E-08	mg/m^3	R	3.1E-09	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.7E-08
	Manganese	5.6E+02	mg/kg	8.4E-07	mg/m^3	R	1.3E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.8E-07	mg/m^3	2.8E-07	mg/m^3	M	4.2E-08	mg/kg-day	--	--	--
	Benzene	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-06
	Chloroform	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.1E-07
	Ethylbenzene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	5.1E-04	mg/kg-day	--	--	--
	Styrene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	5.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
	Toluene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	7.8E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.5E-08
	Xylenes	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	4.9E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.3E-07
	1,2-Dichloroethane	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	2.3E-05
	Benzene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.5E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-03
	Chloroform	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	5.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	9.7E-08
	Ethylbenzene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	4.1E-03	mg/kg-day	--	--	--
	Toluene	4.8E-04	mg/m^3	4.8E-04	mg/m^3	M	7.2E-05	mg/kg-day	--	--	--
	Trichloroethene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	3.4E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-08
										Total Risk Across All Exposure Routes/Pathways	2.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.3.RME
RME CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.2E-08	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.5E-10	mg/kg-day	--	--	--
	Manganese	5.6E+02	mg/kg	5.6E+02	mg/kg	M	6.2E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.3.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: TRENCH WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Ambient Air
Exposure Point: Shallow soil (0-15' bgs) vapors/particulates
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.4E+01	mg/kg	2.8E-08	mg/m^3	R	6.3E-12	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	9.5E-11
	Manganese	5.6E+02	mg/kg	1.1E-06	mg/m^3	R	2.5E-10	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.5E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.37.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.4E-02	--	9.0E-05	1.4E-02
			Manganese	--	--	--	--	Manganese	CNS	3.9E-03	--	2.6E-04	4.2E-03
			(Total)	--	--	--	--	(Total)		1.8E-02	--	3.5E-04	1.8E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.7E-08	--	1.7E-08	Cadmium	Kidney	--	5.4E-04	--	5.4E-04
			Manganese	--	--	--	--	Manganese	CNS	--	2.2E-03	--	2.2E-03
			(Total)	--	1.7E-08	--	1.7E-08	(Total)		--	2.7E-03	--	2.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**#REF!**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-04	--	2.1E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.0E-05	--	1.0E-05
			Benzene	--	1.4E-07	--	1.4E-07	Benzene	Blood	--	2.3E-04	--	2.3E-04
			Chloroform	--	2.1E-08	--	2.1E-08	Chloroform	Kidney	--	3.7E-05	--	3.7E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.7E-04	--	3.7E-04
			Styrene	--	--	--	--	Styrene	CNS	--	6.4E-08	--	6.4E-08
			Tetrachloroethene	--	2.7E-08	--	2.7E-08	Tetrachloroethene	Liver/Kidney	--	3.6E-04	--	3.6E-04
			Toluene	--	--	--	--	Toluene	CNS	--	7.6E-05	--	7.6E-05
			Trichloroethene	--	5.5E-09	--	5.5E-09	Trichloroethene	CNS	--	1.3E-05	--	1.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.0E-05	--	1.0E-05
			(Total)	--	2.0E-07	--	2.0E-07	(Total)		--	1.3E-03	--	1.3E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.9E-08	--	1.9E-08	1,1,2-Trichloroethane	NOAEL	--	2.3E-04	--	2.3E-04
			1,2-Dichloroethane	--	3.4E-06	--	3.4E-06	1,2-Dichloroethane	Liver	--	1.2E-03	--	1.2E-03
			Benzene	--	3.7E-04	--	3.7E-04	Benzene	Blood	--	6.0E-01	--	6.0E-01
			Chloroform	--	1.5E-08	--	1.5E-08	Chloroform	Kidney	--	2.5E-05	--	2.5E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.0E-03	--	3.0E-03
			Toluene	--	--	--	--	Toluene	CNS	--	3.5E-04	--	3.5E-04
			Trichloroethene	--	3.5E-09	--	3.5E-09	Trichloroethene	CNS	--	8.3E-06	--	8.3E-06
			(Total)	--	3.7E-04	--	3.7E-04	(Total)		--	6.1E-01	--	6.1E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.1E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.0E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-03
Total Risk for Deep Soil-to-Indoor Air =	3.7E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	6.1E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.37.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-01	--	5.0E-04	1.8E-01
			Manganese	--	--	--	--	Manganese	CNS	5.1E-02	--	1.4E-03	5.3E-02
			(Total)	--	--	--	--	(Total)		2.3E-01	--	1.9E-03	2.3E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	4.7E-08	--	4.7E-08	Cadmium	Kidney	--	2.4E-03	--	2.4E-03
			Manganese	--	--	--	--	Manganese	CNS	--	9.4E-03	--	9.4E-03
			(Total)	--	4.7E-08	--	4.7E-08	(Total)		--	1.2E-02	--	1.2E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.0E-04	--	1.0E-04
			Benzene	--	1.1E-06	--	1.1E-06	Benzene	Blood	--	2.7E-03	--	2.7E-03
			Chloroform	--	2.1E-07	--	2.1E-07	Chloroform	Kidney	--	5.5E-04	--	5.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.8E-03	--	3.8E-03
			Styrene	--	--	--	--	Styrene	CNS	--	9.0E-04	--	9.0E-04
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Toluene	--	--	--	--	Toluene	CNS	--	8.3E-04	--	8.3E-04
			Trichloroethene	--	5.5E-08	--	5.5E-08	Trichloroethene	CNS	--	2.0E-04	--	2.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-04	--	1.1E-04
			(Total)	--	1.6E-06	--	1.6E-06	(Total)		--	1.7E-02	--	1.7E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.3E-07	--	1.3E-07	1,1,2-Trichloroethane	NOAEL	--	2.4E-03	--	2.4E-03
			1,2-Dichloroethane	--	2.3E-05	--	2.3E-05	1,2-Dichloroethane	Liver	--	1.2E-02	--	1.2E-02
			Benzene	--	2.5E-03	--	2.5E-03	Benzene	Blood	--	6.1E+00	--	6.1E+00
			Chloroform	--	9.7E-08	--	9.7E-08	Chloroform	Kidney	--	2.6E-04	--	2.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-02	--	3.1E-02
			Toluene	--	--	--	--	Toluene	CNS	--	3.6E-03	--	3.6E-03
			Trichloroethene	--	2.4E-08	--	2.4E-08	Trichloroethene	CNS	--	8.4E-05	--	8.4E-05
			(Total)	--	2.5E-03	--	2.5E-03	(Total)		--	6.2E+00	--	6.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.4E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.7E-02
Total Risk for Deep Soil-to-Indoor Air =	2.5E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	6.2E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.37.3.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	3.6E-03	--	1.1E-05	3.6E-03
			Manganese	--	--	--	--	Manganese	CNS	1.0E-03	--	3.1E-05	1.1E-03
			(Total)	--	--	--	--	(Total)		4.6E-03	--	4.2E-05	4.7E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	9.5E-11	--	9.5E-11	Cadmium	Kidney	--	7.8E-05	--	7.8E-05
			Manganese	--	--	--	--	Manganese	CNS	--	3.1E-04	--	3.1E-04
			(Total)	--	9.5E-11	--	9.5E-11	(Total)		--	3.9E-04	--	3.9E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.5E-11	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.1E-03
Total Risk for Indoor Air =	--	Total Hazard Index for Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Site-Wide Ambient Air

RME Exposure Scenario

TABLE 7.38.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF AMBIENT AIR VAPORS: COMMERCIAL WORKER
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Current
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.2E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.1E-02
	Benzene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.8E-02
	Chloroform	9.2E-04	mg/m^3	9.2E-04	mg/m^3	M	1.4E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.6E-03
	Cyclohexane	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	7.2E-04
	Ethylbenzene	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	1.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.9E-03
	Methyl Ethyl Ketone	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.2E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.5E-03
	Methylene chloride	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	4.7E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.1E-03
	Styrene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	5.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.3E-03
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.8E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.8E-02
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	3.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.4E-02
	Trichloroethene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-03
	Xylenes	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	3.5E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.38.1.RME

RME CALCULATION OF CANCER RISKS

INHALATION OF AMBIENT AIR VAPORS: COMMERCIAL WORKER

PARCEL LOCATION: Site-Wide Ambient Air Background

Del Amo Site

Scenario Timeframe: Current
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Benzene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	4.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.2E-05
	Chloroform	9.2E-04	mg/m^3	9.2E-04	mg/m^3	M	4.8E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	9.2E-07
	Cyclohexane	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	4.4E-04	mg/kg-day	--	--	--
	Ethylbenzene	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	3.8E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	7.8E-04	mg/kg-day	--	--	--
	Methylene chloride	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	1.7E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	5.9E-07
	Styrene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	2.8E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.9E-06
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Trichloroethene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	1.1E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.4E-07
	Xylenes	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	1.2E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.38.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Current
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Ambient Air	Outdoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.1E-02	--	1.1E-02
			Benzene	--	4.2E-05	--	4.2E-05	Benzene	Blood	--	6.8E-02	--	6.8E-02
			Chloroform	--	9.2E-07	--	9.2E-07	Chloroform	Kidney	--	1.6E-03	--	1.6E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	7.2E-04	--	7.2E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.9E-03	--	1.9E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.5E-03	--	1.5E-03
			Methylene chloride	--	5.9E-07	--	5.9E-07	Methylene chloride	Liver	--	4.1E-03	--	4.1E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.3E-03	--	2.3E-03
			Tetrachloroethene	--	5.9E-06	--	5.9E-06	Tetrachloroethene	Liver/Kidney	--	7.8E-02	--	7.8E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.4E-02	--	4.4E-02
			Trichloroethene	--	7.4E-07	--	7.4E-07	Trichloroethene	CNS	--	1.7E-03	--	1.7E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.7E-02	--	1.7E-02
			(Total)	--	5.0E-05	--	5.0E-05	(Total)		--	2.3E-01	--	2.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Ambient Air =	5.0E-05	Total Hazard Index for Ambient Air =	2.3E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 7.38.2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OFAMBIENT AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Air
Exposure Medium: Ambient Air
Exposure Point: Outdoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	5.9E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.1E-01
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.2E-01
	Chloroform	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	7.8E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.1E-03
	Cyclohexane	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.2E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	7.0E-03
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	8.9E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.6E-02
	Methyl Ethyl Ketone	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	2.4E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.7E-02
	Methylene chloride	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	5.6E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.9E-02
	Styrene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	6.0E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.3E-02
	Tetrachloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	7.4E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.4E-01
	Toluene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	3.4E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.9E-01
	Trichloroethene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	4.5E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.6E-02
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	3.3E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.7E-01
												Total Hazard Index Across All Exposure Routes/Pathways	2.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.38.2
RME CALCULATION OF CANCER RISKS
INHALATION OFAMBIENT AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Air
Exposure Medium: Ambient Air
Exposure Point: Outdoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	1.4E-02	mg/kg-day	--	--	--
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-04
	Chloroform	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.4E-06
	Cyclohexane	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	2.8E-03	mg/kg-day	--	--	--
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.1E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	5.7E-03	mg/kg-day	--	--	--
	Methylene chloride	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	4.5E-06
	Styrene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.6E-05
	Toluene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	7.9E-03	mg/kg-day	--	--	--
	Trichloroethene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	1.0E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.3E-06
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	7.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.38.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Ambient Air	Outdoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.1E-01	--	2.1E-01
			Benzene	--	2.5E-04	--	2.5E-04	Benzene	Blood	--	6.2E-01	--	6.2E-01
			Chloroform	--	3.4E-06	--	3.4E-06	Chloroform	Kidney	--	9.1E-03	--	9.1E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	7.0E-03	--	7.0E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.6E-02	--	1.6E-02
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.7E-02	--	1.7E-02
			Methylene chloride	--	4.5E-06	--	4.5E-06	Methylene chloride	Liver	--	4.9E-02	--	4.9E-02
			Styrene	--	--	--	--	Styrene	CNS	--	2.3E-02	--	2.3E-02
			Tetrachloroethene	--	3.6E-05	--	3.6E-05	Tetrachloroethene	Liver/Kidney	--	7.4E-01	--	7.4E-01
			Toluene	--	--	--	--	Toluene	CNS	--	3.9E-01	--	3.9E-01
			Trichloroethene	--	7.3E-06	--	7.3E-06	Trichloroethene	CNS	--	2.6E-02	--	2.6E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.7E-01	--	1.7E-01
			(Total)	--	3.0E-04	--	3.0E-04	(Total)		--	2.3E+00	--	2.3E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Ambient Air =	3.0E-04	Total Hazard Index for Ambient Air =	2.3E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 7.38.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF AMBIENT AIR VAPORS: TRENCH WORKER
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	4.2E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.5E-02
	Benzene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	1.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.1E-02
	Chloroform	9.2E-04	mg/m^3	9.2E-04	mg/m^3	M	1.8E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.1E-03
	Cyclohexane	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	1.6E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	9.6E-04
	Ethylbenzene	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.5E-03
	Methyl Ethyl Ketone	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.9E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	2.0E-03
	Methylene chloride	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	6.3E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	5.5E-03
	Styrene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	7.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.0E-03
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	1.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E-01
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	5.1E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.9E-02
	Trichloroethene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	4.0E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.3E-03
	Xylenes	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	4.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.38.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF AMBIENT AIR VAPORS: TRENCH WORKER
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Trench Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	6.0E-05	mg/kg-day	--	--	--
	Benzene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	2.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-06
	Chloroform	9.2E-04	mg/m^3	9.2E-04	mg/m^3	M	2.6E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.9E-08
	Cyclohexane	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	2.4E-05	mg/kg-day	--	--	--
	Ethylbenzene	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	4.1E-05	mg/kg-day	--	--	--
	Methylene chloride	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	9.0E-06	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	3.2E-08
	Styrene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	1.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.1E-07
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	7.2E-05	mg/kg-day	--	--	--
	Trichloroethene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	5.7E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.0E-08
	Xylenes	2.4E-02	mg/m^3	2.4E-02	mg/m^3	M	6.7E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.38.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
TRENCH WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Trench Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Ambient Air	Outdoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.5E-02	--	1.5E-02
			Benzene	--	2.2E-06	--	2.2E-06	Benzene	Blood	--	9.1E-02	--	9.1E-02
			Chloroform	--	4.9E-08	--	4.9E-08	Chloroform	Kidney	--	2.1E-03	--	2.1E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	9.6E-04	--	9.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.5E-03	--	2.5E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	2.0E-03	--	2.0E-03
			Methylene chloride	--	3.2E-08	--	3.2E-08	Methylene chloride	Liver	--	5.5E-03	--	5.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	3.0E-03	--	3.0E-03
			Tetrachloroethene	--	3.1E-07	--	3.1E-07	Tetrachloroethene	Liver/Kidney	--	1.0E-01	--	1.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	5.9E-02	--	5.9E-02
			Trichloroethene	--	4.0E-08	--	4.0E-08	Trichloroethene	CNS	--	2.3E-03	--	2.3E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.3E-02	--	2.3E-02
			(Total)	--	2.7E-06	--	2.7E-06	(Total)		--	3.1E-01	--	3.1E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Ambient Air =	2.7E-06	Total Hazard Index for Ambient Air =	3.1E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Site-Wide Groundwater

RME Exposure Scenario

TABLE 7.39.1.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide
Del Amo Site

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	2.3E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	8.1E-05
	1,1-Dichloroethane	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	8.5E-07	mg/kg-day	1.4E-01	mg/kg-day	4.9E-01	mg/m3	6.1E-06
	1,1-Dichloroethene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	1.9E-03	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	9.3E-02
	1,2,4-Trimethylbenzene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	2.1E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.2E+00
	1,2-Dichlorobenzene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	8.8E-07	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	1.5E-05
	1,2-Dichloroethane	7.3E-07	mg/m^3	7.3E-07	mg/m^3	M	4.7E-07	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.1E-06
	1,2-Dichloroethene (cis)	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	5.6E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.6E-01
	1,2-Dichloroethene (trans)	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	5.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	2.8E-03
	1,2-Dichloropropane	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	6.8E-06	mg/kg-day	1.1E-03	mg/kg-day	3.9E-03	mg/m3	6.1E-03
	1,3,5-Trimethylbenzene	5.4E-04	mg/m^3	5.4E-04	mg/m^3	M	3.5E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.0E-01
	1,4-Dichlorobenzene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	1.0E-06	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	4.5E-06
	Acetone	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	3.6E-07	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	3.9E-07
	Benzene	3.5E+00	mg/m^3	3.5E+00	mg/m^3	M	2.2E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E+02
	sec-Butylbenzene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	5.8E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-03
	tert-Butylbenzene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	1.1E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.6E-05
	Chlorobenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	9.7E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.4E-02
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	6.9E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.1E-03
	Cyclohexane	8.1E-04	mg/m^3	8.1E-04	mg/m^3	M	5.2E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.0E-04
	Dichlorobromomethane	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	7.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	3.8E-04
	Ethylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	7.6E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.3E-01
	Freon 11 (TCFM)	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	1.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.1E-03
	Isopropylbenzene	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	7.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	6.6E-01
	Methyl Ethyl Ketone	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	1.9E-05	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.3E-05
	Naphthalene	3.2E-04	mg/m^3	3.2E-04	mg/m^3	M	2.0E-04	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	7.9E-02
	n-Propylbenzene	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	5.7E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-02
	Styrene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.6E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.4E-02
	Tetrachloroethene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.4E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E+00
	Toluene	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	2.2E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.6E+00
	Trichloroethene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	8.5E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.0E-02
	Xylenes	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	6.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.39.2.RME
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS: COMMERCIAL WORKER
PARCEL LOCATION: Site-Wide
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	3.0E-06	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.1E-05
	1,1-Dichloroethane	5.7E-07	mg/m^3	5.7E-07	mg/m^3	M	1.1E-07	mg/kg-day	1.4E-01	mg/kg-day	4.9E-01	mg/m3	7.9E-07
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	2.4E-04	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	1.2E-02
	1,2,4-Trimethylbenzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.6E-01
	1,2-Dichlorobenzene	5.8E-07	mg/m^3	5.8E-07	mg/m^3	M	1.1E-07	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	2.0E-06
	1,2-Dichloroethane	3.1E-07	mg/m^3	3.1E-07	mg/m^3	M	6.1E-08	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	5.3E-07
	1,2-Dichloroethene (cis)	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	7.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.3E-02
	1,2-Dichloroethene (trans)	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	7.2E-06	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	3.6E-04
	1,2-Dichloropropane	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	8.8E-07	mg/kg-day	1.1E-03	mg/kg-day	3.9E-03	mg/m3	8.0E-04
	1,3,5-Trimethylbenzene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	4.5E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.6E-02
	1,4-Dichlorobenzene	6.9E-07	mg/m^3	6.9E-07	mg/m^3	M	1.4E-07	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	5.9E-07
	Acetone	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	4.6E-08	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	5.1E-08
	Benzene	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	2.9E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E+01
	sec-Butylbenzene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	7.6E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-04
	tert-Butylbenzene	7.0E-07	mg/m^3	7.0E-07	mg/m^3	M	1.4E-07	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	3.4E-06
	Chlorobenzene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	1.3E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.4E-03
	Chloroform	4.6E-04	mg/m^3	4.6E-04	mg/m^3	M	9.0E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-03
	Cyclohexane	3.5E-04	mg/m^3	3.5E-04	mg/m^3	M	6.8E-05	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.9E-05
	Dichlorobromomethane	5.0E-06	mg/m^3	5.0E-06	mg/m^3	M	9.8E-07	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	4.9E-05
	Ethylbenzene	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	9.9E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-02
	Freon 11 (TCFM)	6.8E-04	mg/m^3	6.8E-04	mg/m^3	M	1.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.6E-04
	Isopropylbenzene	4.9E-02	mg/m^3	4.9E-02	mg/m^3	M	9.5E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	8.6E-02
	Methyl Ethyl Ketone	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	2.5E-06	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.7E-06
	Naphthalene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	2.6E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.0E-02
	n-Propylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	7.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-03
	Styrene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	2.1E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	8.3E-03
	Tetrachloroethene	9.3E-03	mg/m^3	9.3E-03	mg/m^3	M	1.8E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.8E-01
	Toluene	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	2.9E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E-01
	Trichloroethene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.5E-03
	Xylenes	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	8.3E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.39.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide
Del Amo Site

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	5.4E-06	mg/kg-day	--	--	--
	1,1-Dichloroethane	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	2.0E-07	mg/kg-day	5.7E-03	$mg/kg\text{-}day^{-1}$	1.1E-09
	1,1-Dichloroethene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	4.3E-04	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	4.9E-04	mg/kg-day	--	--	--
	1,2-Dichlorobenzene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	2.0E-07	mg/kg-day	--	--	--
	1,2-Dichloroethane	7.3E-07	mg/m^3	7.3E-07	mg/m^3	M	1.1E-07	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	7.8E-09
	1,2-Dichloroethene (cis)	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	1,2-Dichloroethene (trans)	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	1,2-Dichloropropane	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	3.6E-02	$mg/kg\text{-}day^{-1}$	5.7E-08
	1,3,5-Trimethylbenzene	5.4E-04	mg/m^3	5.4E-04	mg/m^3	M	8.1E-05	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	2.4E-07	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	9.7E-09
	Acetone	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	8.3E-08	mg/kg-day	--	--	--
	Benzene	3.5E+00	mg/m^3	3.5E+00	mg/m^3	M	5.2E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.2E-02
	sec-Butylbenzene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	tert-Butylbenzene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	2.4E-07	mg/kg-day	--	--	--
	Chlorobenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	2.3E-03	mg/kg-day	--	--	--
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.1E-06
	Cyclohexane	8.1E-04	mg/m^3	8.1E-04	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Dichlorobromomethane	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.7E-06	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	2.3E-07
	Ethylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	1.8E-02	mg/kg-day	--	--	--
	Freon 11 (TCFM)	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.4E-04	mg/kg-day	--	--	--
	Isopropylbenzene	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	1.7E-02	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	4.4E-06	mg/kg-day	--	--	--
	Naphthalene	3.2E-04	mg/m^3	3.2E-04	mg/m^3	M	4.7E-05	mg/kg-day	--	--	--
	n-Propylbenzene	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	1.3E-04	mg/kg-day	--	--	--
	Styrene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	3.8E-03	mg/kg-day	--	--	--
	Tetrachloroethene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.2E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.8E-05
	Toluene	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	5.2E-02	mg/kg-day	--	--	--
	Trichloroethene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.4E-05
	Xylenes	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	1.5E-02	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.39.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS: COMMERCIAL WORKER
PARCEL LOCATION: Site-Wide
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	1.1E-06	mg/kg-day	--	--	--
	1,1-Dichloroethane	5.7E-07	mg/m^3	5.7E-07	mg/m^3	M	4.0E-08	mg/kg-day	5.7E-03	$mg/kg\text{-}day^{-1}$	2.3E-10
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	8.7E-05	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	9.7E-05	mg/kg-day	--	--	--
	1,2-Dichlorobenzene	5.8E-07	mg/m^3	5.8E-07	mg/m^3	M	4.1E-08	mg/kg-day	--	--	--
	1,2-Dichloroethane	3.1E-07	mg/m^3	3.1E-07	mg/m^3	M	2.2E-08	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	1.6E-09
	1,2-Dichloroethene (cis)	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
	1,2-Dichloroethene (trans)	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	2.6E-06	mg/kg-day	--	--	--
	1,2-Dichloropropane	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	3.1E-07	mg/kg-day	3.6E-02	$mg/kg\text{-}day^{-1}$	1.1E-08
	1,3,5-Trimethylbenzene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	6.9E-07	mg/m^3	6.9E-07	mg/m^3	M	4.8E-08	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	Acetone	2.4E-07	mg/m^3	2.4E-07	mg/m^3	M	1.7E-08	mg/kg-day	--	--	--
	Benzene	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	1.0E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-02
	sec-Butylbenzene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	2.7E-06	mg/kg-day	--	--	--
	tert-Butylbenzene	7.0E-07	mg/m^3	7.0E-07	mg/m^3	M	4.9E-08	mg/kg-day	--	--	--
	Chlorobenzene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	4.5E-04	mg/kg-day	--	--	--
	Chloroform	4.6E-04	mg/m^3	4.6E-04	mg/m^3	M	3.2E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	6.1E-07
	Cyclohexane	3.5E-04	mg/m^3	3.5E-04	mg/m^3	M	2.4E-05	mg/kg-day	--	--	--
	Dichlorobromomethane	5.0E-06	mg/m^3	5.0E-06	mg/m^3	M	3.5E-07	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	4.6E-08
	Ethylbenzene	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	3.5E-03	mg/kg-day	--	--	--
	Freon 11 (TCFM)	6.8E-04	mg/m^3	6.8E-04	mg/m^3	M	4.7E-05	mg/kg-day	--	--	--
	Isopropylbenzene	4.9E-02	mg/m^3	4.9E-02	mg/m^3	M	3.4E-03	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	8.9E-07	mg/kg-day	--	--	--
	Naphthalene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	9.4E-06	mg/kg-day	--	--	--
	n-Propylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	2.7E-05	mg/kg-day	--	--	--
	Styrene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	7.7E-04	mg/kg-day	--	--	--
	Tetrachloroethene	9.3E-03	mg/m^3	9.3E-03	mg/m^3	M	6.5E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-05
	Toluene	1.5E-01	mg/m^3	1.5E-01	mg/m^3	M	1.0E-02	mg/kg-day	--	--	--
	Trichloroethene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	4.0E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.8E-06
	Xylenes	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	3.0E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.39.1.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Chemical of Potential Concern	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Air	Indoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.1E-05	--	1.1E-05
			1,1-Dichloroethane	--	2.3E-10	--	2.3E-10	1,1-Dichloroethane	Kidney	--	7.9E-07	--	7.9E-07
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	1.2E-02	--	1.2E-02
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.6E-01	--	1.6E-01
			1,2-Dichlorobenzene	--	--	--	--	1,2-Dichlorobenzene	--	--	2.0E-06	--	2.0E-06
			1,2-Dichloroethane	--	1.6E-09	--	1.6E-09	1,2-Dichloroethane	Liver	--	5.3E-07	--	5.3E-07
			1,2-Dichloroethene (cis)	--	--	--	--	1,2-Dichloroethene (cis)	Blood	--	7.3E-02	--	7.3E-02
			1,2-Dichloroethene (trans)	--	--	--	--	1,2-Dichloroethene (trans)	Liver enzyme	--	3.6E-04	--	3.6E-04
			1,2-Dichloropropane	--	1.1E-08	--	1.1E-08	1,2-Dichloropropane	Nasal Effects	--	8.0E-04	--	8.0E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.6E-02	--	2.6E-02
			1,4-Dichlorobenzene	--	1.9E-09	--	1.9E-09	1,4-Dichlorobenzene	Liver	--	5.9E-07	--	5.9E-07
			Acetone	--	--	--	--	Acetone	Kidney	--	5.1E-08	--	5.1E-08
			Benzene	--	1.0E-02	--	1.0E-02	Benzene	Blood	--	1.7E+01	--	1.7E+01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.9E-04	--	1.9E-04
			tert-Butylbenzene	--	--	--	--	tert-Butylbenzene	Liver/Kidney	--	3.4E-06	--	3.4E-06
			Chlorobenzene	--	--	--	--	Chlorobenzene	Kidney	--	4.4E-03	--	4.4E-03
			Chloroform	--	6.1E-07	--	6.1E-07	Chloroform	Kidney	--	1.1E-03	--	1.1E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.9E-05	--	3.9E-05
			Dichlorobromomethane	--	4.6E-08	--	4.6E-08	Dichlorobromomethane	Kidney	--	4.9E-05	--	4.9E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-02	--	1.7E-02
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	6.6E-04	--	6.6E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	8.6E-02	--	8.6E-02
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.7E-06	--	1.7E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.0E-02	--	1.0E-02
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	1.9E-03	--	1.9E-03
			Styrene	--	--	--	--	Styrene	CNS	--	8.3E-03	--	8.3E-03
			Tetrachloroethene	--	1.4E-05	--	1.4E-05	Tetrachloroethene	Liver/Kidney	--	1.8E-01	--	1.8E-01
			Toluene	--	--	--	--	Toluene	CNS	--	3.4E-01	--	3.4E-01
			Trichloroethene	--	2.8E-06	--	2.8E-06	Trichloroethene	CNS	--	6.5E-03	--	6.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.1E-02	--	4.1E-02
			(Total)	--	1.0E-02	--	1.0E-02	(Total)		--	1.8E+01	--	1.8E+01

Total Risk Across Surface Soil	--	Total Hazard Index Across Surface Soil	--
Total Risk Across Shallow Soil (0-15' bgs)	--	Total Hazard Index Across Shallow Soil (0-15' bgs)	--
Total Risk Across Groundwater	1.0E-02	Total Hazard Index Across Groundwater	1.8E+01
Total Risk Across All Media and All Exposure Routes	1.0E-02	Total Hazard Index Across All Media and All Exposure Routes	1.8E+01

Note: " -- " not applicable or not available

TABLE 9.39.2.RME
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Chemical of Potential Concern	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Air	Indoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	8.1E-05	--	8.1E-05
			1,1-Dichloroethane	--	1.1E-09	--	1.1E-09	1,1-Dichloroethane	Kidney	--	6.1E-06	--	6.1E-06
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	9.3E-02	--	9.3E-02
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.2E+00	--	1.2E+00
			1,2-Dichlorobenzene	--	--	--	--	1,2-Dichlorobenzene	--	--	1.5E-05	--	1.5E-05
			1,2-Dichloroethane	--	7.8E-09	--	7.8E-09	1,2-Dichloroethane	Liver	--	4.1E-06	--	4.1E-06
			1,2-Dichloroethene (cis)	--	--	--	--	1,2-Dichloroethene (cis)	Blood	--	5.6E-01	--	5.6E-01
			1,2-Dichloroethene (trans)	--	--	--	--	1,2-Dichloroethene (trans)	Liver enzyme	--	2.8E-03	--	2.8E-03
			1,2-Dichloropropane	--	5.7E-08	--	5.7E-08	1,2-Dichloropropane	Nasal Effects	--	6.1E-03	--	6.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.0E-01	--	2.0E-01
			1,4-Dichlorobenzene	--	9.7E-09	--	9.7E-09	1,4-Dichlorobenzene	Liver	--	4.5E-06	--	4.5E-06
			Acetone	--	--	--	--	Acetone	Kidney	--	3.9E-07	--	3.9E-07
			Benzene	--	5.2E-02	--	5.2E-02	Benzene	Blood	--	1.3E+02	--	1.3E+02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-03	--	1.4E-03
			tert-Butylbenzene	--	--	--	--	tert-Butylbenzene	Liver/Kidney	--	2.6E-05	--	2.6E-05
			Chlorobenzene	--	--	--	--	Chlorobenzene	Kidney	--	3.4E-02	--	3.4E-02
			Chloroform	--	3.1E-06	--	3.1E-06	Chloroform	Kidney	--	8.1E-03	--	8.1E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.0E-04	--	3.0E-04
			Dichlorobromomethane	--	2.3E-07	--	2.3E-07	Dichlorobromomethane	Kidney	--	3.8E-04	--	3.8E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.3E-01	--	1.3E-01
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	5.1E-03	--	5.1E-03
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	6.6E-01	--	6.6E-01
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.3E-05	--	1.3E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	7.9E-02	--	7.9E-02
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	1.4E-02	--	1.4E-02
			Styrene	--	--	--	--	Styrene	CNS	--	6.4E-02	--	6.4E-02
			Tetrachloroethene	--	6.8E-05	--	6.8E-05	Tetrachloroethene	Liver/Kidney	--	1.4E+00	--	1.4E+00
			Toluene	--	--	--	--	Toluene	CNS	--	2.6E+00	--	2.6E+00
			Trichloroethene	--	1.4E-05	--	1.4E-05	Trichloroethene	CNS	--	5.0E-02	--	5.0E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.2E-01	--	3.2E-01
			(Total)	--	5.2E-02	--	5.2E-02	(Total)		--	1.4E+02	--	1.4E+02
						Total Risk Across Surface Soil	--					Total Hazard Index Across Surface Soil	--
						Total Risk Across Shallow Soil (0-15' bgs)	--					Total Hazard Index Across Shallow Soil (0-15' bgs)	--
						Total Risk Across Groundwater	5.2E-02					Total Hazard Index Across Groundwater	1.4E+02
						Total Risk Across All Media and All Exposure Routes	5.2E-02					Total Hazard Index Across All Media and All Exposure Routes	1.4E+02

Note: " -- " not applicable or not available

Parcel: 7351-31-18	**EAPC No.:** 1

CT Exposure Scenario

TABLE 7.1.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	6.7E-06	mg/kg-day	1.0E-03	mg/kg-day	6.7E-03
	(Total)										6.7E-03
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.8E-09	mg/kg-day	1.0E-03	mg/kg-day	3.8E-06
	(Total)										3.8E-06
										Total Hazard Index Across All Exposure Routes/Pathways	6.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	2.2E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-18

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	2.2E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.3E-04
	1,3,5-Trimethylbenzene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	2.0E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.2E-05
	1,4-Dichlorobenzene	7.9E-07	mg/m^3	7.9E-07	mg/m^3	M	7.8E-08	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	3.4E-07
	Freon 11 (TCFM)	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	5.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.8E-05
	Freon 12 (DCDFM)	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	1.9E-05
	Tetrachloroethene	3.9E-06	mg/m^3	3.9E-06	mg/m^3	M	3.9E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.9E-05
	Trichloroethene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.6E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.1E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	9.3E-05	mg/kg-day	1.0E-03	mg/kg-day	9.3E-02
	(Total)										9.3E-02
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	7.5E-08	mg/kg-day	1.0E-03	mg/kg-day	7.5E-05
	(Total)										7.5E-05
										Total Hazard Index Across All Exposure Routes/Pathways	9.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	1.0E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.1.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.3E-06	mg/m^3	5.3E-06	mg/m^3	M	2.5E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.5E-03
	1,3,5-Trimethylbenzene	4.8E-07	mg/m^3	4.8E-07	mg/m^3	M	2.3E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.3E-04
	1,4-Dichlorobenzene	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	8.8E-07	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	3.8E-06
	Freon 11 (TCFM)	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	6.4E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.2E-04
	Freon 12 (DCDFM)	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.2E-05	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	2.2E-04
	Tetrachloroethene	9.2E-06	mg/m^3	9.2E-06	mg/m^3	M	4.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-04
	Trichloroethene	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	4.1E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.1.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	6.3E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.6E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	2.0E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	3.1E-09
										Total Risk Across All Exposure Routes/Pathways	3.1E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	2.1E-08	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	1.9E-09	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	7.9E-07	mg/m^3	7.9E-07	mg/m^3	M	7.4E-09	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	3.0E-10
	Freon 11 (TCFM)	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	5.4E-07	mg/kg-day	--	--	--
	Freon 12 (DCDFM)	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.0E-07	mg/kg-day	--	--	--
	Tetrachloroethene	3.9E-06	mg/m^3	3.9E-06	mg/m^3	M	3.6E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.7E-10
	Trichloroethene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.4E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-10
										Total Risk Across All Exposure Routes/Pathways	1.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	3.7E-06	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	1.5E+01	mg/kg	M	2.4E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.5E+01	mg/kg	2.2E-08	mg/m^3	R	6.9E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.0E-08
										Total Risk Across All Exposure Routes/Pathways	1.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.1.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.3E-06	mg/m^3	5.3E-06	mg/m^3	M	1.7E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	4.8E-07	mg/m^3	4.8E-07	mg/m^3	M	1.5E-08	mg/kg-day	--	--	--
	1,4-Dichlorobenzene	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	5.9E-08	mg/kg-day	4.0E-02	$mg/kg\text{-}day^{-1}$	2.4E-09
	Freon 11 (TCFM)	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	4.3E-06	mg/kg-day	--	--	--
	Freon 12 (DCDFM)	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	8.3E-07	mg/kg-day	--	--	--
	Tetrachloroethene	9.2E-06	mg/m^3	9.2E-06	mg/m^3	M	2.9E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.1E-09
	Trichloroethene	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	2.7E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.9E-09
										Total Risk Across All Exposure Routes/Pathways	1.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.1.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-18
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	6.7E-03	--	3.8E-06	6.7E-03
			(Total)	--	--	--	--	(Total)		6.7E-03	--	3.8E-06	6.7E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	3.1E-09	--	3.1E-09	Cadmium	Kidney	--	3.8E-04	--	3.8E-04
			(Total)	--	3.1E-09	--	3.1E-09	(Total)		--	3.8E-04	--	3.8E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.3E-04	--	1.3E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.2E-05	--	1.2E-05
			1,4-Dichlorobenzene	--	3.0E-10	--	3.0E-10	1,4-Dichlorobenzene	Liver	--	3.4E-07	--	3.4E-07
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	2.8E-05	--	2.8E-05
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	1.9E-05	--	1.9E-05
			Tetrachloroethene	--	7.7E-10	--	7.7E-10	Tetrachloroethene	Liver/Kidney	--	3.9E-05	--	3.9E-05
			Trichloroethene	--	2.4E-10	--	2.4E-10	Trichloroethene	CNS	--	2.1E-06	--	2.1E-06
			(Total)	--	1.3E-09	--	1.3E-09	(Total)		--	2.3E-04	--	2.3E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.1E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.1E-03
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.3E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.1.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-18
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	9.3E-02	--	7.5E-05	9.3E-02
			(Total)	--	--	--	--	(Total)		9.3E-02	--	7.5E-05	9.3E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.0E-08	--	1.0E-08	Cadmium	Kidney	--	1.8E-03	--	1.8E-03
			(Total)	--	1.0E-08	--	1.0E-08	(Total)		--	1.8E-03	--	1.8E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.5E-03	--	1.5E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.3E-04	--	1.3E-04
			1,4-Dichlorobenzene	--	2.4E-09	--	2.4E-09	1,4-Dichlorobenzene	Liver	--	3.8E-06	--	3.8E-06
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	3.2E-04	--	3.2E-04
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	2.2E-04	--	2.2E-04
			Tetrachloroethene	--	6.1E-09	--	6.1E-09	Tetrachloroethene	Liver/Kidney	--	4.3E-04	--	4.3E-04
			Trichloroethene	--	1.9E-09	--	1.9E-09	Trichloroethene	CNS	--	2.4E-05	--	2.4E-05
			(Total)	--	1.0E-08	--	1.0E-08	(Total)		--	2.6E-03	--	2.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.0E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	9.5E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.0E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-20	**EAPC No.:** 2

CT Exposure Scenario

TABLE 7.2.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	5.1E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	8.2E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.6E-01	mg/kg	1.6E-01	mg/kg	M	7.1E-08	mg/kg-day	--	--	--
	Chrysene	--	--	--	--	M	--	--	--	--	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	4.2E-02	mg/kg	M	1.9E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	8.1E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	3.7E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	8.8E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	6.0E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.6E-01	mg/kg	1.6E-01	mg/kg	M	5.2E-09	mg/kg-day	--	--	--
	Chrysene	--	--	--	--	M	--	--	--	--	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	4.2E-02	mg/kg	M	1.4E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	5.9E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	1.1E-01	mg/kg	1.7E-10	mg/m^3	R	1.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	3.9E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.8E-01	mg/kg	2.7E-10	mg/m^3	R	2.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.6E-01	mg/kg	2.3E-10	mg/m^3	R	2.3E-11	mg/kg-day	--	--	--	--	--
	Chrysene	--	mg/kg	--	mg/m^3	M	--	--	--	--	--	--	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	6.3E-11	mg/m^3	R	6.2E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	2.6E-10	mg/m^3	R	2.6E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	3.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	2.8E-07	mg/kg-day	8.0E-05	mg/kg-day	3.5E-03
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	4.0E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	2.1E-07	mg/kg-day	--	--	--
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.4E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	5.6E-07	mg/kg-day	--	--	--
	(Total)										1.5E-02
Dermal	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	5.8E-08	mg/kg-day	3.0E-04	mg/kg-day	1.9E-04
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	9.2E-10	mg/kg-day	3.0E-04	mg/kg-day	3.1E-06
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.6E-09	mg/kg-day	8.0E-05	mg/kg-day	2.0E-05
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	2.9E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	2.3E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.0E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	(Total)										2.1E-04
									Total Hazard Index Across All Exposure Routes/Pathways		1.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.3E-04
	Mercury	3.6E-01	mg/kg	5.4E-10	mg/m^3	R	5.3E-11	mg/kg-day	2.6E-05	mg/kg-day	9.0E-05	mg/m3	2.1E-06
	Thallium	6.1E-01	mg/kg	9.1E-10	mg/m^3	R	9.0E-11	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	5.0E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	1.3E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	1.0E-09	mg/m^3	R	1.0E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	7.0E-10	mg/m^3	R	6.9E-11	mg/kg-day	--	--	--	--	--
	Chrysene	4.5E-01	mg/kg	6.7E-10	mg/m^3	R	6.6E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.8E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	1.8E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-20

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	2.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	3.6E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.3E-01
	Benzene	9.7E-03	mg/m^3	9.7E-03	mg/m^3	M	9.6E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.6E-02
	Cyclohexane	6.8E-03	mg/m^3	6.8E-03	mg/m^3	M	6.7E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.9E-04
	Ethylbenzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.9E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.4E-03
	Methyl Ethyl Ketone	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	9.3E-04
	Methylene Chloride	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.9E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.6E-02
	Styrene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	3.0E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	4.6E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.6E-02
	Toluene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	3.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.2E-02
	Trichloroethene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.7E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.0E-03
	Xylenes	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	7.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.6E-03
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	3.9E-06	mg/kg-day	8.0E-05	mg/kg-day	4.9E-02
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	5.6E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	4.3E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	3.0E-06	mg/kg-day	--	--	--
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	2.8E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.6E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	7.8E-06	mg/kg-day	--	--	--
	(Total)										2.1E-01
Dermal	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.8E-03
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	6.1E-05
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	3.1E-08	mg/kg-day	8.0E-05	mg/kg-day	3.9E-04
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	5.8E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	4.5E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.9E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	8.1E-07	mg/kg-day	--	--	--
	(Total)										4.3E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	5.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	6.2E-04
	Mercury	3.6E-01	mg/kg	5.4E-10	mg/m^3	R	2.5E-10	mg/kg-day	2.6E-05	mg/kg-day	9.0E-05	mg/m3	9.9E-06
	Thallium	6.1E-01	mg/kg	9.1E-10	mg/m^3	R	4.3E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	6.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	6.7E-01	mg/kg	1.0E-09	mg/m^3	R	4.8E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.7E-01	mg/kg	7.0E-10	mg/m^3	R	3.3E-10	mg/kg-day	--	--	--	--	--
	Chrysene	4.5E-01	mg/kg	6.7E-10	mg/m^3	R	3.2E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	8.5E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	8.7E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.2.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	2.8E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	4.8E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.8E-09
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.1E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.4E-07
	Benzo(b)fluoranthene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	7.8E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.3E-09
	Benzo(k)fluoranthene	1.6E-01	mg/kg	1.6E-01	mg/kg	M	6.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.1E-09
	Chrysene	--	mg/kg	--	mg/kg	M	--	--	1.2E-01	mg/kg-day^{-1}	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	4.2E-02	mg/kg	M	1.8E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	7.4E-09
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	7.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.1E-09
	(Total)										1.7E-07
Dermal	**SVOCs**										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	3.5E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.2E-10
	Benzo(a)pyrene	2.6E-01	mg/kg	2.6E-01	mg/kg	M	8.3E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	9.9E-09
	Benzo(b)fluoranthene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	5.7E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.8E-10
	Benzo(k)fluoranthene	1.6E-01	mg/kg	1.6E-01	mg/kg	M	4.9E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.9E-10
	Chrysene	--	mg/kg	--	mg/kg	M	--	--	1.2E-01	mg/kg-day^{-1}	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	4.2E-02	mg/kg	M	1.3E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	5.4E-10
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	5.6E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.7E-10
	(Total)										1.3E-08
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.7E-10	mg/m^3	R	1.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-13
	Benzo(a)pyrene	2.6E-01	mg/kg	3.9E-10	mg/m^3	R	3.7E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.4E-11
	Benzo(b)fluoranthene	1.8E-01	mg/kg	2.7E-10	mg/m^3	R	2.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.8E-13
	Benzo(k)fluoranthene	1.6E-01	mg/kg	2.3E-10	mg/m^3	R	2.2E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.5E-13
	Chrysene	--	mg/kg	--	mg/m^3	M	--	--	3.9E-02	$mg/kg\text{-}day^{-1}$	--
	Dibenzo(a,h)anthracene	4.2E-02	mg/kg	6.3E-11	mg/m^3	R	5.9E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.4E-12
	Indeno(1,2,3-cd)pyrene	1.8E-01	mg/kg	2.6E-10	mg/m^3	R	2.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.6E-13
										Total Risk Across All Exposure Routes/Pathways	2.0E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	3.2E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	4.8E-07
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	2.6E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.4E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.7E-08
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	3.8E-08	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	4.5E-07
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	2.9E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.5E-08
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	2.0E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	2.4E-08
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	1.9E-08	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	2.3E-09
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.1E-09	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	2.1E-08
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	5.3E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	6.3E-08
	(Total)										1.1E-06
Dermal	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	5.4E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	8.1E-09
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	8.7E-11	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.5E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.3E-09
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	2.8E-09	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	3.3E-08
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	2.1E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	2.6E-09
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	1.5E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.8E-09
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	1.4E-09	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.7E-10
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.8E-10	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	1.5E-09
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.9E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.6E-09
	(Total)										5.3E-08
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	1.0E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.2E-09
	Mercury	3.6E-01	mg/kg	5.4E-10	mg/m^3	R	5.0E-12	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	9.1E-10	mg/m^3	R	8.5E-12	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	4.7E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-12
	Benzo(a)pyrene	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	1.2E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.8E-11
	Benzo(b)fluoranthene	6.7E-01	mg/kg	1.0E-09	mg/m^3	R	9.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-12
	Benzo(k)fluoranthene	4.7E-01	mg/kg	7.0E-10	mg/m^3	R	6.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.6E-12
	Chrysene	4.5E-01	mg/kg	6.7E-10	mg/m^3	R	6.2E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	2.4E-13
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.7E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.8E-12
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	1.7E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.7E-12
										Total Risk Across All Exposure Routes/Pathways	1.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	2.3E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.4E-09
										Total Risk Across All Exposure Routes/Pathways	4.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
TABLE 8.2.1.CT
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	3.4E-03	mg/kg-day	--	--	--
	Benzene	9.7E-03	mg/m^3	9.7E-03	mg/m^3	M	9.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.1E-06
	Cyclohexane	6.8E-03	mg/m^3	6.8E-03	mg/m^3	M	6.3E-05	mg/kg-day	--	--	--
	Ethylbenzene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.8E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	--	--	--
	Methylene Chloride	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.8E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	6.2E-07
	Styrene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	4.4E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	9.2E-07
	Toluene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	3.4E-04	mg/kg-day	--	--	--
	Trichloroethene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.6E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-07
	Xylenes	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	7.3E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	1.9E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.8E-06
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	9.0E-08	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.4E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.0E-07
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	2.2E-07	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	2.6E-06
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	1.7E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	2.0E-07
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	1.2E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.4E-07
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	1.1E-07	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.3E-08
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.0E-08	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	1.2E-07
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	3.1E-07	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.7E-07
	(Total)										6.4E-06
Dermal	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	7.4E+00	mg/kg	M	3.7E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.5E-08
	Mercury	3.6E-01	mg/kg	3.6E-01	mg/kg	M	5.9E-10	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.0E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	7.2E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	8.6E-09
	Benzo(a)pyrene	8.8E-01	mg/kg	8.8E-01	mg/kg	M	1.9E-08	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	2.3E-07
	Benzo(b)fluoranthene	6.7E-01	mg/kg	6.7E-01	mg/kg	M	1.5E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.7E-08
	Benzo(k)fluoranthene	4.7E-01	mg/kg	4.7E-01	mg/kg	M	1.0E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	1.2E-08
	Chrysene	4.5E-01	mg/kg	4.5E-01	mg/kg	M	9.6E-09	mg/kg-day	1.2E-01	mg/kg-day $^{-1}$	1.2E-09
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.6E-09	mg/kg-day	4.1E+00	mg/kg-day $^{-1}$	1.1E-08
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.2E+00	mg/kg	M	2.6E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.2E-08
	(Total)										3.6E-07
										Total Risk Across All Exposure Routes/Pathways	6.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	7.4E+00	mg/kg	1.1E-08	mg/m^3	R	3.5E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.2E-09
	Mercury	3.6E-01	mg/kg	5.4E-10	mg/m^3	R	1.7E-11	mg/kg-day	--	--	--
	Thallium	6.1E-01	mg/kg	9.1E-10	mg/m^3	R	2.9E-11	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.2E-12
	Benzo(a)pyrene	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	4.2E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.6E-10
	Benzo(b)fluoranthene	6.7E-01	mg/kg	1.0E-09	mg/m^3	R	3.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-11
	Benzo(k)fluoranthene	4.7E-01	mg/kg	7.0E-10	mg/m^3	R	2.2E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.7E-12
	Chrysene	4.5E-01	mg/kg	6.7E-10	mg/m^3	R	2.1E-11	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	8.3E-13
	Dibenzo(a,h)anthracene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	5.7E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.3E-11
	Indeno(1,2,3-cd)pyrene	1.2E+00	mg/kg	1.8E-09	mg/m^3	R	5.8E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
										Total Risk Across All Exposure Routes/Pathways	4.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.2.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	1.9E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.5E-08
										Total Risk Across All Exposure Routes/Pathways	3.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.2.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	5.8E-09	--	4.2E-10	6.2E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.4E-07	--	9.9E-09	1.5E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	9.3E-09	--	6.8E-10	1.0E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	8.1E-09	--	5.9E-10	8.7E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	--	--	--	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	7.4E-09	--	5.4E-10	7.9E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	9.1E-09	--	6.7E-10	9.8E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.7E-07	--	1.3E-08	1.9E-07	(Total)		--	--	--	--
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	6.1E-13	--	6.1E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.4E-11	--	1.4E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	9.8E-13	--	9.8E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	8.5E-13	--	8.5E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	--	--	--	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.4E-12	--	2.4E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	9.6E-13	--	9.6E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	2.0E-11	--	2.0E-11	(Total)		--	--	--	--
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	4.8E-07	--	8.1E-09	4.9E-07	Arsenic	Skin	1.1E-02	--	1.9E-04	1.2E-02
			Mercury	--	--	--	--	Mercury	Autoimmune	5.5E-04	--	3.1E-06	5.5E-04
			Thallium	--	--	--	--	Thallium	NOAEL	3.5E-03	--	2.0E-05	3.5E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.7E-08	--	1.3E-09	1.9E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.5E-07	--	3.3E-08	4.9E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.5E-08	--	2.6E-09	3.7E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.4E-08	--	1.8E-09	2.6E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.3E-09	--	1.7E-10	2.5E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.1E-08	--	1.5E-09	2.3E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	6.3E-08	--	4.6E-09	6.8E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	1.1E-06	--	5.3E-08	1.2E-06	(Total)		1.5E-02	--	2.1E-04	1.6E-02

TABLE 9.2.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.2E-09	--	1.2E-09	Arsenic	Developmental	--	1.3E-04	--	1.3E-04
			Mercury	--	--	--	--	Mercury	Nervous System	--	2.1E-06	--	2.1E-06
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.8E-12	--	1.8E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.8E-11	--	4.8E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.7E-12	--	3.7E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.6E-12	--	2.6E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	2.4E-13	--	2.4E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.8E-12	--	6.8E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	6.7E-12	--	6.7E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.3E-09	--	1.3E-09	(Total)		--	1.3E-04	--	1.3E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	4.4E-09	--	4.4E-09	Chloroform	Kidney	--	2.9E-05	--	2.9E-05
			(Total)	--	4.4E-09	--	4.4E-09	(Total)		--	2.9E-05	--	2.9E-05
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.3E-01	--	1.3E-01
			Benzene	--	9.1E-06	--	9.1E-06	Benzene	Blood	--	5.6E-02	--	5.6E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.9E-04	--	3.9E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.4E-03	--	3.4E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	9.3E-04	--	9.3E-04
			Methylene Chloride	--	6.2E-07	--	6.2E-07	Methylene Chloride	Liver	--	1.6E-02	--	1.6E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	9.2E-07	--	9.2E-07	Tetrachloroethene	Liver/Kidney	--	4.6E-02	--	4.6E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.2E-02	--	4.2E-02
			Trichloroethene	--	1.1E-07	--	1.1E-07	Trichloroethene	CNS	--	1.0E-03	--	1.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.9E-02	--	3.9E-02
			(Total)	--	1.1E-05	--	1.1E-05	(Total)		--	3.3E-01	--	3.3E-01

Total Risk Across Surface Soil =	1.9E-07	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.6E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.4E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.9E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.1E-05	Total Hazard Index for Workplace Indoor Air =	3.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.2.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-20
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	2.8E-06	--	5.5E-08	2.9E-06	Arsenic	Skin	1.6E-01	--	3.8E-03	1.6E-01
			Mercury	--	--	--	--	Mercury	Autoimmune	7.6E-03	--	6.1E-05	7.7E-03
			Thallium	--	--	--	--	Thallium	NOAEL	4.9E-02	--	3.9E-04	4.9E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	1.0E-07	--	8.6E-09	1.1E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.6E-06	--	2.3E-07	2.9E-06	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.0E-07	--	1.7E-08	2.2E-07	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.4E-07	--	1.2E-08	1.5E-07	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.3E-08	--	1.2E-09	1.5E-08	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.2E-07	--	1.1E-08	1.3E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.7E-07	--	3.2E-08	4.0E-07	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	6.4E-06	--	3.6E-07	6.8E-06	(Total)		2.1E-01	--	4.3E-03	2.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	4.2E-09	--	4.2E-09	Arsenic	Developmental	--	6.2E-04	--	6.2E-04
			Mercury	--	--	--	--	Mercury	Nervous System	--	9.9E-06	--	9.9E-06
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	6.2E-12	--	6.2E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.6E-10	--	1.6E-10	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.2E-11	--	1.2E-11	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	8.7E-12	--	8.7E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	8.3E-13	--	8.3E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.3E-11	--	2.3E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	2.3E-11	--	2.3E-11	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	4.5E-09	--	4.5E-09	(Total)		--	6.3E-04	--	6.3E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	3.5E-08	--	3.5E-08	Chloroform	Kidney	--	3.2E-04	--	3.2E-04
			(Total)	--	3.5E-08	--	3.5E-08	(Total)		--	3.2E-04	--	3.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.8E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.2E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.5E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-31	**EAPC No.:** 3

CT Exposure Scenario

TABLE 7.3.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.0E-03
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	3.4E-07	mg/kg-day	1.0E-03	mg/kg-day	3.4E-04
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	1.1E-05	mg/kg-day	1.5E+00	mg/kg-day	7.2E-06
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	4.2E-08	mg/kg-day	--	--	--
	(Total)										4.4E-03
Dermal	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.8E-05
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	1.9E-10	mg/kg-day	1.0E-03	mg/kg-day	1.9E-07
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	6.1E-08	mg/kg-day	1.5E+00	mg/kg-day	4.1E-08
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	3.3E-09	mg/kg-day	--	--	--
	(Total)										6.8E-05
										Total Hazard Index Across All Exposure Routes/Pathways	4.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.3.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	2.6E+00	mg/kg	4.0E-09	mg/m^3	R	3.9E-10	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	4.6E-05
	Cadmium	7.5E-01	mg/kg	1.1E-09	mg/m^3	R	1.1E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.9E-05
	Chromium (total)	2.4E+01	mg/kg	3.5E-08	mg/m^3	R	3.5E-09	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	Aroclor 1260	9.2E-02	mg/kg	1.4E-10	mg/m^3	R	1.4E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-31

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.3E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	7.7E-05
	Isopropylbenzene	8.4E-04	mg/m^3	8.4E-04	mg/m^3	M	8.3E-05	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	7.4E-04
	Tetrachloroethene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.6E-04
	Toluene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.4E-05
	Xylenes	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	7.7E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	5.9E-07	mg/kg-day	--	--	--
	(Total)										6.1E-02
Dermal	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	3.8E-09	mg/kg-day	1.0E-03	mg/kg-day	3.8E-06
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	mg/kg-day	8.0E-07
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	6.6E-08	mg/kg-day	--	--	--
	(Total)										1.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways	6.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.3.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	2.6E+00	mg/kg	4.0E-09	mg/m^3	R	1.9E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.2E-04
	Cadmium	7.5E-01	mg/kg	1.1E-09	mg/m^3	R	5.3E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	9.3E-05
	Chromium (total)	2.4E+01	mg/kg	3.5E-08	mg/m^3	R	1.7E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	Aroclor 1260	9.2E-02	mg/kg	1.4E-10	mg/m^3	R	6.6E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.3.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.1E-06	mg/m^3	3.1E-06	mg/m^3	M	1.5E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.7E-04
	Isopropylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	9.3E-04	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	8.3E-03
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	4.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.1E-03
	Toluene	2.8E-05	mg/m^3	2.8E-05	mg/m^3	M	1.3E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-04
	Xylenes	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	8.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.3.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.7E-07
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	4.0E-09	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	2.0E-08
	(Total)										1.9E-07
Dermal	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.9E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.9E-09
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	1.8E-11	mg/kg-day	--	--	--
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	5.7E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	3.1E-10	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	1.6E-09
	(Total)										4.5E-09
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	4.0E-09	mg/m^3	R	3.7E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.4E-10
	Cadmium	7.5E-01	mg/kg	1.1E-09	mg/m^3	R	1.0E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.6E-10
	Chromium (total)	2.4E+01	mg/kg	3.5E-08	mg/m^3	R	3.3E-10	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	1.4E-08
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	1.4E-10	mg/m^3	R	1.3E-12	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	2.6E-12
										Total Risk Across All Exposure Routes/Pathways	1.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.3E-08	mg/kg-day	--	--	--
	Isopropylbenzene	8.4E-04	mg/m^3	8.4E-04	mg/m^3	M	7.8E-06	mg/kg-day	--	--	--
	Tetrachloroethene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	3.4E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.2E-09
	Toluene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	Xylenes	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	7.3E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.2E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	6.6E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.9E-07
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	5.9E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	2.3E-08	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	1.2E-07
	(Total)										1.1E-06
Dermal	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	2.6E+00	mg/kg	M	1.3E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	2.0E-08
	Cadmium	7.5E-01	mg/kg	7.5E-01	mg/kg	M	1.2E-10	mg/kg-day	--	--	--
	Chromium (total)	2.4E+01	mg/kg	2.4E+01	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	9.2E-02	mg/kg	M	2.1E-09	mg/kg-day	5.0E+00	mg/kg-day $^{-1}$	1.1E-08
	(Total)										3.0E-08
										Total Risk Across All Exposure Routes/Pathways	1.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	2.6E+00	mg/kg	4.0E-09	mg/m^3	R	1.3E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Cadmium	7.5E-01	mg/kg	1.1E-09	mg/m^3	R	3.5E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.3E-10
	Chromium (total)	2.4E+01	mg/kg	3.5E-08	mg/m^3	R	1.1E-09	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	4.7E-08
	Pesticides/PCBs										
	Aroclor 1260	9.2E-02	mg/kg	1.4E-10	mg/m^3	R	4.4E-12	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	8.8E-12
										Total Risk Across All Exposure Routes/Pathways	4.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.3.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.1E-06	mg/m^3	3.1E-06	mg/m^3	M	1.0E-07	mg/kg-day	--	--	--
	Isopropylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	6.2E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	2.7E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.7E-08
	Toluene	2.8E-05	mg/m^3	2.8E-05	mg/m^3	M	8.8E-07	mg/kg-day	--	--	--
	Xylenes	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	5.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.3.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-31
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	1.7E-07	--	2.9E-09	1.7E-07	Arsenic	Skin	4.0E-03	--	6.8E-05	4.1E-03
			Cadmium	--	--	--	--	Cadmium	Kidney	3.4E-04	--	1.9E-07	3.4E-04
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	7.2E-06	--	4.1E-08	7.2E-06
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	2.0E-08	--	1.6E-09	2.1E-08	Aroclor 1260	--	--	--	--	--
			(Total)	1.9E-07	--	4.5E-09	2.0E-07	(Total)		4.4E-03	--	6.8E-05	4.4E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	4.4E-10	--	4.4E-10	Arsenic	Developmental	--	4.6E-05	--	4.6E-05
			Cadmium	--	1.6E-10	--	1.6E-10	Cadmium	Kidney	--	1.9E-05	--	1.9E-05
			Chromium (total)	--	1.4E-08	--	1.4E-08	Chromium (total)	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	--	2.6E-12	--	2.6E-12	Aroclor 1260	--	--	--	--	--
			(Total)	--	1.4E-08	--	1.4E-08	(Total)		--	6.5E-05	--	6.5E-05
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	7.7E-05	--	7.7E-05
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	7.4E-04	--	7.4E-04
			Tetrachloroethene	--	7.2E-09	--	7.2E-09	Tetrachloroethene	Liver/Kidney	--	3.6E-04	--	3.6E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.4E-05	--	1.4E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.9E-06	--	3.9E-06
			(Total)	--	7.2E-09	--	7.2E-09	(Total)		--	1.2E-03	--	1.2E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.5E-03
Total Risk for Shallow Soil-to-Indoor Air =	7.2E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.3.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-31
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	9.9E-07	--	2.0E-08	1.0E-06	Arsenic	Skin	5.6E-02	--	1.4E-03	5.8E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	4.8E-03	--	3.8E-06	4.8E-03
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	1.0E-04	--	8.0E-07	1.0E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	1.2E-07	--	1.1E-08	1.3E-07	Aroclor 1260	--	--	--	--	--
			(Total)	1.1E-06	--	3.0E-08	1.1E-06	(Total)		6.1E-02	--	1.4E-03	6.2E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.5E-09	--	1.5E-09	Arsenic	Developmental	--	2.2E-04	--	2.2E-04
			Cadmium	--	5.3E-10	--	5.3E-10	Cadmium	Kidney	--	9.3E-05	--	9.3E-05
			Chromium (total)	--	4.7E-08	--	4.7E-08	Chromium (total)	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			Aroclor 1260	--	8.8E-12	--	8.8E-12	Aroclor 1260	--	--	--	--	--
			(Total)	--	4.9E-08	--	4.9E-08	(Total)		--	3.1E-04	--	3.1E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	8.7E-04	--	8.7E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	8.3E-03	--	8.3E-03
			Tetrachloroethene	--	5.7E-08	--	5.7E-08	Tetrachloroethene	Liver/Kidney	--	4.1E-03	--	4.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-04	--	1.5E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.3E-05	--	4.3E-05
			(Total)	--	5.7E-08	--	5.7E-08	(Total)		--	1.3E-02	--	1.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.3E-02
Total Risk for Shallow Soil-to-Indoor Air =	5.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-31-7	**EAPC No.:** 4

CT Exposure Scenario

TABLE 7.4.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	1.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.3E-05
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.9E-07	mg/kg-day	3.0E-03	mg/kg-day	2.3E-04
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	4.9E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.3E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.4E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	4.3E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	(Total)										2.4E-04
Dermal	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	mg/kg-day	7.3E-08
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	0.0E+00	mg/kg-day	3.0E-03	mg/kg-day	0.0E+00
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	3.6E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.9E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.0E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	3.1E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	9.0E-10	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	2.4E-09	mg/kg-day	--	--	--
	(Total)										7.3E-08
										Total Hazard Index Across All Exposure Routes/Pathways	2.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Chromium (total)	4.2E+01	mg/kg	6.3E-08	mg/m^3	R	6.3E-09	mg/kg-day	--	--	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	2.3E-09	mg/m^3	R	2.2E-10	mg/kg-day	2.3E-06	mg/kg-day	8.0E-06	mg/m3	9.8E-05
	SVOCs												
	Benzo(a)anthracene	1.1E-01	mg/kg	1.6E-10	mg/m^3	R	1.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.7E-10	mg/m^3	R	1.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	1.4E-10	mg/m^3	R	1.4E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	4.0E-11	mg/m^3	R	4.0E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	1.1E-10	mg/m^3	R	1.0E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	9.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	3.7E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.3E-02
	1,1-Dichloroethene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	6.9E-05	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	3.4E-03
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.3E-02
	Cyclohexane	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	4.1E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.4E-04
	Ethylbenzene	8.1E-03	mg/m^3	8.1E-03	mg/m^3	M	8.0E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-03
	Methyl Ethyl Ketone	6.1E-02	mg/m^3	6.1E-02	mg/m^3	M	6.0E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	4.2E-03
	Methylene Chloride	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	4.0E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.5E-03
	Styrene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.4E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	5.5E-03
	Tetrachloroethene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.8E-01
	Toluene	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	4.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.6E-02
	Trichloroethene	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	2.5E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.5E-03
	Xylenes	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	9.7E-06	mg/kg-day	3.0E-03	mg/kg-day	3.2E-03
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	6.9E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.4E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.5E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	6.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	4.5E-07	mg/kg-day	--	--	--
	(Total)										3.4E-03
Dermal	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day	1.4E-06
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	0.0E+00	mg/kg-day	3.0E-03	mg/kg-day	0.0E+00
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	7.2E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.6E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.8E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	6.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	4.7E-08	mg/kg-day	--	--	--
	(Total)										1.4E-06
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.4.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Chromium (total)	4.2E+01	mg/kg	6.3E-08	mg/m^3	R	3.0E-08	mg/kg-day	--	--	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	2.3E-09	mg/m^3	R	1.1E-09	mg/kg-day	2.3E-06	mg/kg-day	8.0E-06	mg/m3	4.7E-04
	SVOCs												
	Benzo(a)anthracene	1.1E-01	mg/kg	1.6E-10	mg/m^3	R	7.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.2E-01	mg/kg	1.7E-10	mg/m^3	R	8.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	8.4E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	9.4E-02	mg/kg	1.4E-10	mg/m^3	R	6.7E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	4.0E-11	mg/m^3	R	1.9E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	1.1E-10	mg/m^3	R	5.0E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	4.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.4.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	1.8E-06	mg/kg-day	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	4.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.6E-09
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.0E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	6.0E-08
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.1E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.1E-09
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	4.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.9E-09
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	1.2E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	4.7E-09
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	3.1E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.7E-09
	(Total)										8.5E-08
Dermal	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	1.0E-08	mg/kg-day	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	0.0E+00	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	3.4E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.1E-10
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.6E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.4E-09
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.5E-10
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	3.0E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-10
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	8.5E-11	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.5E-10
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	2.2E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.7E-10
	(Total)										6.2E-09
										Total Risk Across All Exposure Routes/Pathways	9.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	6.3E-08	mg/m^3	R	5.9E-10	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	2.5E-08
	Chromium (VI)	1.5E+00	mg/kg	2.3E-09	mg/m^3	R	2.1E-11	mg/kg-day	5.1E+02	$mg/kg\text{-}day^{-1}$	1.1E-08
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.6E-10	mg/m^3	R	1.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.9E-13
	Benzo(a)pyrene	1.2E-01	mg/kg	1.7E-10	mg/m^3	R	1.6E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	6.3E-12
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.7E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.4E-13
	Benzo(k)fluoranthene	9.4E-02	mg/kg	1.4E-10	mg/m^3	R	1.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.1E-13
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	4.0E-11	mg/m^3	R	3.7E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.5E-12
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	1.1E-10	mg/m^3	R	9.9E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.9E-13
										Total Risk Across All Exposure Routes/Pathways	3.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	3.5E-04	mg/kg-day	--	--	--
	1,1-Dichloroethene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	6.5E-06	mg/kg-day	--	--	--
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-05
	Cyclohexane	4.2E-03	mg/m^3	4.2E-03	mg/m^3	M	3.9E-05	mg/kg-day	--	--	--
	Ethylbenzene	8.1E-03	mg/m^3	8.1E-03	mg/m^3	M	7.6E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	6.1E-02	mg/m^3	6.1E-02	mg/m^3	M	5.7E-04	mg/kg-day	--	--	--
	Methylene Chloride	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	3.8E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.3E-07
	Styrene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.7E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.7E-06
	Toluene	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	4.5E-04	mg/kg-day	--	--	--
	Trichloroethene	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	2.4E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.7E-07
	Xylenes	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	1.1E-05	mg/kg-day	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.8E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	2.7E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.3E-08
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.9E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.5E-07
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.0E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-08
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	2.4E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.8E-08
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	6.7E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.7E-08
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	1.8E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.1E-08
	(Total)										4.9E-07
Dermal	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	4.2E+01	mg/kg	M	7.0E-08	mg/kg-day	--	--	--
	Chromium (VI)	1.5E+00	mg/kg	1.5E+00	mg/kg	M	0.0E+00	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	2.3E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.8E-09
	Benzo(a)pyrene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.5E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.0E-08
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.5E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.0E-09
	Benzo(k)fluoranthene	9.4E-02	mg/kg	9.4E-02	mg/kg	M	2.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.4E-09
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	2.7E-02	mg/kg	M	5.8E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.4E-09
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	7.1E-02	mg/kg	M	1.5E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-09
	(Total)										4.2E-08
										Total Risk Across All Exposure Routes/Pathways	5.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.4.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-31-7

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Chromium (total)	4.2E+01	mg/kg	6.3E-08	mg/m^3	R	2.0E-09	mg/kg-day	4.2E+01	$mg/kg\text{-}day^{-1}$	8.4E-08
	Chromium (VI)	1.5E+00	mg/kg	2.3E-09	mg/m^3	R	7.2E-11	mg/kg-day	5.1E+02	$mg/kg\text{-}day^{-1}$	3.7E-08
	SVOCs										
	Benzo(a)anthracene	1.1E-01	mg/kg	1.6E-10	mg/m^3	R	5.1E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.0E-12
	Benzo(a)pyrene	1.2E-01	mg/kg	1.7E-10	mg/m^3	R	5.5E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.1E-11
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	5.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-12
	Benzo(k)fluoranthene	9.4E-02	mg/kg	1.4E-10	mg/m^3	R	4.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-12
	Dibenzo(a,h)anthracene	2.7E-02	mg/kg	4.0E-11	mg/m^3	R	1.3E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.2E-12
	Indeno(1,2,3-cd)pyrene	7.1E-02	mg/kg	1.1E-10	mg/m^3	R	3.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.3E-12
										Total Risk Across All Exposure Routes/Pathways	1.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.4.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	1.3E-05	--	7.3E-08	1.3E-05
			Chromium (VI)	--	--	--	--	Chromium (VI)	NOAEL	2.3E-04	--	0.0E+00	2.3E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	5.6E-09	--	4.1E-10	6.0E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	6.0E-08	--	4.4E-09	6.4E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	6.1E-09	--	4.5E-10	6.6E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	4.9E-09	--	3.6E-10	5.2E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	4.7E-09	--	3.5E-10	5.1E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.7E-09	--	2.7E-10	3.9E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	8.5E-08	--	6.2E-09	9.1E-08	(Total)		2.4E-04	--	7.3E-08	2.4E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Chromium (total)	--	2.5E-08	--	2.5E-08	Chromium (total)	--	--	--	--	--
			Chromium (VI)	--	1.1E-08	--	1.1E-08	Chromium (VI)	Nasal Effects	--	9.8E-05	--	9.8E-05
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	5.9E-13	--	5.9E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	6.3E-12	--	6.3E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	6.4E-13	--	6.4E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	5.1E-13	--	5.1E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.5E-12	--	1.5E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	3.9E-13	--	3.9E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	3.6E-08	--	3.6E-08	(Total)		--	9.8E-05	--	9.8E-05

TABLE 9.4.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.3E-02	--	1.3E-02
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	3.4E-03	--	3.4E-03
			Benzene	--	1.3E-05	--	1.3E-05	Benzene	Blood	--	8.3E-02	--	8.3E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.4E-04	--	2.4E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-03	--	1.4E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	4.2E-03	--	4.2E-03
			Methylene Chloride	--	1.3E-07	--	1.3E-07	Methylene Chloride	Liver	--	3.5E-03	--	3.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	5.5E-03	--	5.5E-03
			Tetrachloroethene	--	3.7E-06	--	3.7E-06	Tetrachloroethene	Liver/Kidney	--	1.8E-01	--	1.8E-01
			Toluene	--	--	--	--	Toluene	CNS	--	5.6E-02	--	5.6E-02
			Trichloroethene	--	1.7E-07	--	1.7E-07	Trichloroethene	CNS	--	1.5E-03	--	1.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-02	--	1.1E-02
			(Total)	--	1.7E-05	--	1.7E-05	(Total)		--	3.7E-01	--	3.7E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.3E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.4E-04
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.7E-05	Total Hazard Index for Workplace Indoor Air =	3.7E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.4.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-31-7
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Chromium (total)	--	--	--	--	Chromium (total)	NOAEL	1.8E-04	--	1.4E-06	1.8E-04
			Chromium (VI)	--	--	--	--	Chromium (VI)	NOAEL	3.2E-03	--	0.0E+00	3.2E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	3.3E-08	--	2.8E-09	3.5E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	3.5E-07	--	3.0E-08	3.8E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.6E-08	--	3.0E-09	3.9E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.8E-08	--	2.4E-09	3.1E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.7E-08	--	2.4E-09	3.0E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.1E-08	--	1.8E-09	2.3E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	4.9E-07	--	4.2E-08	5.3E-07	(Total)		3.4E-03	--	1.4E-06	3.4E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Chromium (total)	--	8.4E-08	--	8.4E-08	Chromium (total)	--	--	--	--	--
			Chromium (VI)	--	3.7E-08	--	3.7E-08	Chromium (VI)	Nasal Effects	--	4.7E-04	--	4.7E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.0E-12	--	2.0E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.1E-11	--	2.1E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.2E-12	--	2.2E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.7E-12	--	1.7E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	5.2E-12	--	5.2E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.3E-12	--	1.3E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.2E-07	--	1.2E-07	(Total)		--	4.7E-04	--	4.7E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.5E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.9E-03
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-17	**EAPC No.:** 5

CT Exposure Scenario

TABLE 7.5.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	2.5E-05	mg/kg-day	7.0E-03	mg/kg-day	3.5E-03
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	4.2E-07	mg/kg-day	5.0E-02	mg/kg-day	8.3E-06
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	1.7E-07	mg/kg-day	4.0E-03	mg/kg-day	4.3E-05
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	5.0E-07	mg/kg-day	1.7E+00	mg/kg-day	2.9E-07
	(Total)										3.6E-03
Dermal	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	1.4E-07	mg/kg-day	7.0E-03	mg/kg-day	2.0E-05
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	2.4E-08	mg/kg-day	5.0E-02	mg/kg-day	4.7E-07
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	9.7E-09	mg/kg-day	4.0E-03	mg/kg-day	2.4E-06
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.8E-08	mg/kg-day	1.7E+00	mg/kg-day	1.7E-08
	(Total)										2.3E-05
										Total Hazard Index Across All Exposure Routes/Pathways	3.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Vanadium	5.4E+01	mg/kg	8.1E-08	mg/m^3	R	8.0E-09	mg/kg-day	--	--	--	--	--
	VOCs												
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	2.4E-05	mg/m^3	R	2.4E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.4E-03
	Benzene	3.8E-01	mg/kg	7.0E-05	mg/m^3	R	6.9E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.0E-04
	Cyclohexane	1.1E+00	mg/kg	6.3E-04	mg/m^3	R	6.2E-05	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.6E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	4.7E-04	mg/m^3	4.7E-04	mg/m^3	M	4.7E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.7E-02
	2-Hexanone	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	2.1E-04	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	2.4E-04
	4-Ethyl Toluene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	7.0E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.5E-04
	Acetone	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	1.5E-04	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.6E-04
	Benzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-02
	Carbon Disulfide	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.3E-03	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	5.6E-03
	Cyclohexane	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	7.7E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.5E-03
	Ethylbenzene	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	7.0E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.2E-04
	n-Heptane	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	4.9E-03	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	2.5E-03
	n-Hexane	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.6E-03	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.3E-03
	Methyl isobutyl ketone	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	2.2E-04	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	2.5E-04
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	2.0E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.0E-03
	Toluene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	1.5E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.7E-03
	Trichloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	7.2E-05
	Xylenes	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	7.8E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	7.2E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.2E-02
	Benzene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	5.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E-01
	Ethylbenzene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	3.6E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.4E-04
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	3.8E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.5E-03
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.3E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	8.9E-04
	Toluene	3.5E-02	mg/m^3	3.5E-02	mg/m^3	M	3.5E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.0E-02
	Xylenes	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	7.7E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	9.3E-03	mg/m^3	9.3E-03	mg/m^3	M	9.2E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.2E-03
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.9E-02
	Cyclohexane	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.7E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.6E-03
	Ethylbenzene	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	8.3E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-03
	Methyl Ethyl Ketone	9.0E-03	mg/m^3	9.0E-03	mg/m^3	M	8.9E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	6.2E-04
	Methylene Chloride	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	2.6E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.3E-03
	Styrene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	3.5E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.4E-03
	Tetrachloroethene	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	7.4E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.4E-02
	Toluene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	3.7E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.3E-02
	Trichloroethene	8.9E-04	mg/m^3	8.9E-04	mg/m^3	M	8.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.1E-04
	Xylenes	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.8E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	3.4E-04	mg/kg-day	7.0E-03	mg/kg-day	4.9E-02
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	5.8E-06	mg/kg-day	5.0E-02	mg/kg-day	1.2E-04
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	2.4E-06	mg/kg-day	4.0E-03	mg/kg-day	6.0E-04
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	7.0E-06	mg/kg-day	1.7E+00	mg/kg-day	4.1E-06
	(Total)										5.0E-02
Dermal	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	2.8E-06	mg/kg-day	7.0E-03	mg/kg-day	3.9E-04
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	4.7E-07	mg/kg-day	5.0E-02	mg/kg-day	9.3E-06
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	1.9E-07	mg/kg-day	4.0E-03	mg/kg-day	4.8E-05
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	5.6E-07	mg/kg-day	1.7E+00	mg/kg-day	3.3E-07
	(Total)										4.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	5.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Vanadium	5.4E+01	mg/kg	8.1E-08	mg/m^3	R	3.8E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	2.2E-05	mg/m^3	R	1.0E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.0E-03
	Benzene	3.8E-01	mg/kg	6.4E-05	mg/m^3	R	3.0E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-03
	Cyclohexane	1.1E+00	mg/kg	5.7E-04	mg/m^3	R	2.7E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	7.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	5.2E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.1E-01
	2-Hexanone	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	2.4E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	2.7E-03
	4-Ethyl Toluene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	7.8E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-03
	Acetone	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	1.6E-03	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.8E-03
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	5.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E-01
	Carbon Disulfide	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	6.2E-02
	Cyclohexane	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	8.6E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	5.0E-02
	Ethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	7.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-03
	n-Heptane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	5.5E-02	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	2.8E-02
	n-Hexane	6.1E-02	mg/m^3	6.1E-02	mg/m^3	M	2.9E-02	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.4E-02
	Methyl isobutyl ketone	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	2.4E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	2.8E-03
	Tetrachloroethene	4.8E-04	mg/m^3	4.8E-04	mg/m^3	M	2.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.3E-02
	Toluene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	1.7E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.9E-02
	Trichloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.0E-04
	Xylenes	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	6.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	8.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	8.1E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.7E-01
	Benzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	5.7E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E+00
	Ethylbenzene	8.6E-03	mg/m^3	8.6E-03	mg/m^3	M	4.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.1E-03
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	4.3E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.7E-02
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	2.6E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.0E-02
	Toluene	8.2E-02	mg/m^3	8.2E-02	mg/m^3	M	3.9E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.5E-01
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	8.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.5.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	2.3E-06	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	1.6E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.6E-09
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	4.7E-08	mg/kg-day	--	--	--
	(Total)										1.6E-09
Dermal	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	2.2E-09	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	9.2E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	9.2E-11
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.7E-09	mg/kg-day	--	--	--
	(Total)										9.2E-11
										Total Risk Across All Exposure Routes/Pathways	1.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	8.1E-08	mg/m^3	R	7.5E-10	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	2.4E-05	mg/m^3	R	2.2E-07	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	7.0E-05	mg/m^3	R	6.5E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.5E-08
	Cyclohexane	1.1E+00	mg/kg	6.3E-04	mg/m^3	R	5.9E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	4.7E-04	mg/m^3	4.7E-04	mg/m^3	M	4.4E-06	mg/kg-day	--	--	--
	2-Hexanone	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	4-Ethyl Toluene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	6.6E-06	mg/kg-day	--	--	--
	Acetone	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Benzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	4.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.7E-06
	Carbon Disulfide	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Cyclohexane	7.8E-02	mg/m^3	7.8E-02	mg/m^3	M	7.3E-04	mg/kg-day	--	--	--
	Ethylbenzene	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	6.6E-06	mg/kg-day	--	--	--
	n-Heptane	5.0E-02	mg/m^3	5.0E-02	mg/m^3	M	4.6E-04	mg/kg-day	--	--	--
	n-Hexane	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.4E-04	mg/kg-day	--	--	--
	Methyl isobutyl ketone	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.0E-08
	Toluene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Trichloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.1E-09
	Xylenes	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.0E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	6.8E-06	mg/kg-day	--	--	--
	Benzene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	4.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.8E-05
	Ethylbenzene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	3.4E-05	mg/kg-day	--	--	--
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	3.6E-07	mg/kg-day	--	--	--
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.2E-05	mg/kg-day	--	--	--
	Toluene	3.5E-02	mg/m^3	3.5E-02	mg/m^3	M	3.3E-04	mg/kg-day	--	--	--
	Xylenes	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	7.3E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	9.3E-03	mg/m^3	9.3E-03	mg/m^3	M	8.7E-05	mg/kg-day	--	--	--
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-05
	Cyclohexane	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
	Ethylbenzene	8.4E-03	mg/m^3	8.4E-03	mg/m^3	M	7.8E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	9.0E-03	mg/m^3	9.0E-03	mg/m^3	M	8.4E-05	mg/kg-day	--	--	--
	Methylene Chloride	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	2.5E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	8.7E-08
	Styrene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	3.3E-05	mg/kg-day	--	--	--
	Tetrachloroethene	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	7.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-06
	Toluene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	3.5E-04	mg/kg-day	--	--	--
	Trichloroethene	8.9E-04	mg/m^3	8.9E-04	mg/m^3	M	8.3E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.8E-08
	Xylenes	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	1.4E-05	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	9.4E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	9.4E-09
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	(Total)										9.4E-09
Dermal	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	5.4E+01	mg/kg	M	8.9E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	9.1E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	3.8E-01	mg/kg	M	6.2E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	6.2E-10
	Cyclohexane	1.1E+00	mg/kg	1.1E+00	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	(Total)										6.2E-10
										Total Risk Across All Exposure Routes/Pathways	1.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Vanadium	5.4E+01	mg/kg	8.1E-08	mg/m^3	R	2.6E-09	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	9.1E-01	mg/kg	2.2E-05	mg/m^3	R	6.9E-07	mg/kg-day	--	--	--
	Benzene	3.8E-01	mg/kg	6.4E-05	mg/m^3	R	2.0E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-07
	Cyclohexane	1.1E+00	mg/kg	5.7E-04	mg/m^3	R	1.8E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	3.5E-05	mg/kg-day	--	--	--
	2-Hexanone	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
	4-Ethyl Toluene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	5.2E-05	mg/kg-day	--	--	--
	Acetone	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Benzene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	3.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.8E-05
	Carbon Disulfide	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	9.6E-04	mg/kg-day	--	--	--
	Cyclohexane	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	5.8E-03	mg/kg-day	--	--	--
	Ethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	5.3E-05	mg/kg-day	--	--	--
	n-Heptane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	3.7E-03	mg/kg-day	--	--	--
	n-Hexane	6.1E-02	mg/m^3	6.1E-02	mg/m^3	M	1.9E-03	mg/kg-day	--	--	--
	Methyl isobutyl ketone	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	4.8E-04	mg/m^3	4.8E-04	mg/m^3	M	1.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-07
	Toluene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Trichloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	9.2E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.5E-08
	Xylenes	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	4.0E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-33-17

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	5.4E-05	mg/kg-day	--	--	--
	Benzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	3.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.8E-04
	Ethylbenzene	8.6E-03	mg/m^3	8.6E-03	mg/m^3	M	2.7E-04	mg/kg-day	--	--	--
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	2.9E-06	mg/kg-day	--	--	--
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	1.7E-04	mg/kg-day	--	--	--
	Toluene	8.2E-02	mg/m^3	8.2E-02	mg/m^3	M	2.6E-03	mg/kg-day	--	--	--
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	5.8E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.5.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	Liver	3.5E-03	--	2.0E-05	3.5E-03
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	8.3E-06	--	4.7E-07	8.8E-06
			Benzene	1.6E-09	--	9.2E-11	1.7E-09	Benzene	Blood	4.3E-05	--	2.4E-06	4.5E-05
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	2.9E-07	--	1.7E-08	3.1E-07
			(Total)	1.6E-09	--	9.2E-11	1.7E-09	(Total)		3.6E-03	--	2.3E-05	3.6E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.4E-03	--	1.4E-03
			Benzene	--	6.5E-08	--	6.5E-08	Benzene	Blood	--	4.0E-04	--	4.0E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.6E-05	--	3.6E-05
			(Total)	--	6.5E-08	--	6.5E-08	(Total)		--	1.8E-03	--	1.8E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.7E-02	--	2.7E-02
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	2.4E-04	--	2.4E-04
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.5E-04	--	3.5E-04
			Acetone	--	--	--	--	Acetone	Kidney	--	1.6E-04	--	1.6E-04
			Benzene	--	4.7E-06	--	4.7E-06	Benzene	Blood	--	2.9E-02	--	2.9E-02
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	5.6E-03	--	5.6E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.5E-03	--	4.5E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.2E-04	--	1.2E-04
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	2.5E-03	--	2.5E-03
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	1.3E-03	--	1.3E-03
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	2.5E-04	--	2.5E-04
			Tetrachloroethene	--	4.0E-08	--	4.0E-08	Tetrachloroethene	Liver/Kidney	--	2.0E-03	--	2.0E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.7E-03	--	1.7E-03
			Trichloroethene	--	8.1E-09	--	8.1E-09	Trichloroethene	CNS	--	7.2E-05	--	7.2E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.7E-03	--	2.7E-03
			(Total)	--	4.8E-06	--	4.8E-06	(Total)		--	7.8E-02	--	7.8E-02

TABLE 9.5.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.2E-02	--	4.2E-02
		Using the J&E Model	Benzene	--	4.8E-05	--	4.8E-05	Benzene	Blood	--	3.0E-01	--	3.0E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.4E-04	--	6.4E-04
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.5E-03	--	1.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	8.9E-04	--	8.9E-04
			Toluene	--	--	--	--	Toluene	CNS	--	4.0E-02	--	4.0E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.9E-03	--	3.9E-03
			(Total)	--	4.8E-05	--	4.8E-05	(Total)		--	3.9E-01	--	3.9E-01
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	3.2E-03	--	3.2E-03
			Benzene	--	1.1E-05	--	1.1E-05	Benzene	Blood	--	6.9E-02	--	6.9E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.6E-03	--	1.6E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-03	--	1.4E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	6.2E-04	--	6.2E-04
			Methylene Chloride	--	8.7E-08	--	8.7E-08	Methylene Chloride	Liver	--	2.3E-03	--	2.3E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.4E-03	--	1.4E-03
			Tetrachloroethene	--	1.5E-06	--	1.5E-06	Tetrachloroethene	Liver/Kidney	--	7.4E-02	--	7.4E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.3E-02	--	4.3E-02
			Trichloroethene	--	5.8E-08	--	5.8E-08	Trichloroethene	CNS	--	5.1E-04	--	5.1E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.4E-02	--	1.4E-02
			(Total)	--	1.3E-05	--	1.3E-05	(Total)		--	2.1E-01	--	2.1E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.7E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.4E-03
Total Risk for Shallow Soil-to-Indoor Air =	4.8E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.8E-02
Total Risk for Deep Soil-to-Indoor Air =	4.8E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	3.9E-01
Total Risk for Workplace Indoor Air =	1.3E-05	Total Hazard Index for Workplace Indoor Air =	2.1E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.5.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	Liver	4.9E-02	--	3.9E-04	5.0E-02
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	1.2E-04	--	9.3E-06	1.3E-04
			Benzene	9.4E-09	--	6.2E-10	1.0E-08	Benzene	Blood	6.0E-04	--	4.8E-05	6.5E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	4.1E-06	--	3.3E-07	4.4E-06
			(Total)	9.4E-09	--	6.2E-10	1.0E-08	(Total)		5.0E-02	--	4.5E-04	5.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.0E-03	--	6.0E-03
			Benzene	--	2.0E-07	--	2.0E-07	Benzene	Blood	--	1.8E-03	--	1.8E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.6E-04	--	1.6E-04
			(Total)	--	2.0E-07	--	2.0E-07	(Total)		--	7.9E-03	--	7.9E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.1E-01	--	3.1E-01
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	2.7E-03	--	2.7E-03
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.9E-03	--	3.9E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	1.8E-03	--	1.8E-03
			Benzene	--	3.8E-05	--	3.8E-05	Benzene	Blood	--	3.3E-01	--	3.3E-01
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	6.2E-02	--	6.2E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	5.0E-02	--	5.0E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-03	--	1.4E-03
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	2.8E-02	--	2.8E-02
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	1.4E-02	--	1.4E-02
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	2.8E-03	--	2.8E-03
			Tetrachloroethene	--	3.2E-07	--	3.2E-07	Tetrachloroethene	Liver/Kidney	--	2.3E-02	--	2.3E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.9E-02	--	1.9E-02
			Trichloroethene	--	6.5E-08	--	6.5E-08	Trichloroethene	CNS	--	8.0E-04	--	8.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.0E-02	--	3.0E-02
			(Total)	--	3.8E-05	--	3.8E-05	(Total)		--	8.7E-01	--	8.7E-01

TABLE 9.5.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.7E-01	--	4.7E-01
		Using the J&E Model	Benzene	--	3.8E-04	--	3.8E-04	Benzene	Blood	--	3.3E+00	--	3.3E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.1E-03	--	7.1E-03
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.7E-02	--	1.7E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.0E-02	--	1.0E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.5E-01	--	4.5E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.3E-02	--	4.3E-02
			(Total)	--	3.8E-04	--	3.8E-04	(Total)		--	4.3E+00	--	4.3E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.8E-02
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.7E-01
Total Risk for Deep Soil-to-Indoor Air =	3.8E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	4.3E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-22	**EAPC No.:** 6

CT Exposure Scenario

TABLE 7.6.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.7E-07	mg/kg-day	4.0E-03	mg/kg-day	1.2E-04
	(Total)										1.2E-04
Dermal	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.7E-08	mg/kg-day	4.0E-03	mg/kg-day	6.7E-06
	(Total)										6.7E-06
										Total Hazard Index Across All Exposure Routes/Pathways	1.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.6.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E+00	mg/kg	1.9E-04	mg/m^3	R	1.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.6.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-22

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	7.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	3.6E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E-02
	Ethylbenzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	2.8E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.9E-04
	Toluene	4.8E-03	mg/m^3	4.8E-03	mg/m^3	M	4.7E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.5E-03
	Xylenes	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	1.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	6.6E-06	mg/kg-day	4.0E-03	mg/kg-day	1.6E-03
	(Total)										1.6E-03
Dermal	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	5.3E-07	mg/kg-day	4.0E-03	mg/kg-day	1.3E-04
	(Total)										1.3E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E+00	mg/kg	1.7E-04	mg/m^3	R	8.2E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	4.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	1.4E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	8.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	4.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-01
	Ethylbenzene	6.7E-03	mg/m^3	6.7E-03	mg/m^3	M	3.2E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.5E-03
	Toluene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.3E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.2E-02
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	1.8E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.8E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.6.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.4E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.4E-09
	(Total)										4.4E-09
Dermal	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.5E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.5E-10
	(Total)										2.5E-10
										Total Risk Across All Exposure Routes/Pathways	4.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.9E-04	mg/m^3	R	1.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-07
										Total Risk Across All Exposure Routes/Pathways	1.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-05
										Total Risk Across All Exposure Routes/Pathways	1.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	3.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.4E-06
	Ethylbenzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	2.7E-05	mg/kg-day	--	--	--
	Toluene	4.8E-03	mg/m^3	4.8E-03	mg/m^3	M	4.5E-05	mg/kg-day	--	--	--
	Xylenes	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.6E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.6E-08
	(Total)										2.6E-08
Dermal	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.7E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.7E-09
	(Total)										1.7E-09
										Total Risk Across All Exposure Routes/Pathways	2.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E+00	mg/kg	1.7E-04	mg/m^3	R	5.5E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.5E-07
										Total Risk Across All Exposure Routes/Pathways	5.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	9.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.4E-05
										Total Risk Across All Exposure Routes/Pathways	9.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	2.7E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-05
	Ethylbenzene	6.7E-03	mg/m^3	6.7E-03	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
	Toluene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	3.6E-04	mg/kg-day	--	--	--
	Xylenes	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	1.2E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.6.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.4E-09	--	2.5E-10	4.7E-09	Benzene	Blood	1.2E-04	--	6.7E-06	1.2E-04
			(Total)	4.4E-09	--	2.5E-10	4.7E-09	(Total)		1.2E-04	--	6.7E-06	1.2E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.8E-07	--	1.8E-07	Benzene	Blood	--	1.1E-03	--	1.1E-03
			(Total)	--	1.8E-07	--	1.8E-07	(Total)		--	1.1E-03	--	1.1E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.2E-05	--	1.2E-05	Benzene	Blood	--	7.3E-02	--	7.3E-02
			(Total)	--	1.2E-05	--	1.2E-05	(Total)		--	7.3E-02	--	7.3E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.4E-06	--	3.4E-06	Benzene	Blood	--	2.1E-02	--	2.1E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.9E-04	--	4.9E-04
			Toluene	--	--	--	--	Toluene	CNS	--	5.5E-03	--	5.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.8E-03	--	7.8E-03
			(Total)	--	3.4E-06	--	3.4E-06	(Total)		--	3.5E-02	--	3.5E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.8E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.2E-03
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.3E-02
Total Risk for Deep Soil-to-Indoor Air =	3.4E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	3.5E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.6.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	2.6E-08	--	1.7E-09	2.8E-08	Benzene	Blood	1.6E-03	--	1.3E-04	1.8E-03
			(Total)	2.6E-08	--	1.7E-09	2.8E-08	(Total)		1.6E-03	--	1.3E-04	1.8E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	5.5E-07	--	5.5E-07	Benzene	Blood	--	4.8E-03	--	4.8E-03
			(Total)	--	5.5E-07	--	5.5E-07	(Total)		--	4.8E-03	--	4.8E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	9.4E-05	--	9.4E-05	Benzene	Blood	--	8.2E-01	--	8.2E-01
			(Total)	--	9.4E-05	--	9.4E-05	(Total)		--	8.2E-01	--	8.2E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.7E-05	--	2.7E-05	Benzene	Blood	--	2.4E-01	--	2.4E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.5E-03	--	5.5E-03
			Toluene	--	--	--	--	Toluene	CNS	--	6.2E-02	--	6.2E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	8.8E-02	--	8.8E-02
			(Total)	--	2.7E-05	--	2.7E-05	(Total)		--	3.9E-01	--	3.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.8E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.6E-03
Total Risk for Shallow Soil-to-Indoor Air =	9.4E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.2E-01
Total Risk for Deep Soil-to-Indoor Air =	2.7E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	3.9E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-24	**EAPC No.:** 7

CT Exposure Scenario

TABLE 7.7.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.0E-05
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	2.4E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	2.0E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	2.3E-08	mg/kg-day	--	--	--
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	3.8E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	8.0E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	4.5E-07	mg/kg-day	2.0E-02	mg/kg-day	2.2E-05
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	3.3E-07	mg/kg-day	5.0E-02	mg/kg-day	6.7E-06
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	4.8E-08	mg/kg-day	4.0E-03	mg/kg-day	1.2E-05
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	3.6E-06	mg/kg-day	2.0E-01	mg/kg-day	1.8E-05
	(Total)										1.1E-02

TABLE 7.7.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	5.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	1.0E-07	mg/kg-day	2.0E-02	mg/kg-day	5.1E-06
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	1.7E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	1.5E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	1.2E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.7E-09	mg/kg-day	--	--	--
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	2.8E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	5.8E-10	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	1.6E-09	mg/kg-day	--	--	--
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	1.9E-08	mg/kg-day	5.0E-02	mg/kg-day	3.8E-07
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	2.7E-09	mg/kg-day	4.0E-03	mg/kg-day	6.8E-07
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.9E-08	mg/kg-day	2.0E-02	mg/kg-day	2.0E-06
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	2.1E-07	mg/kg-day	2.0E-01	mg/kg-day	1.0E-06
	(Total)										1.9E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	7.1E+00	mg/kg	1.1E-08	mg/m^3	R	1.0E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.2E-04
	SVOCs												
	2-Methylnaphthalene	3.1E+00	mg/kg	4.6E-09	mg/m^3	R	4.5E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.8E-07
	Benzo(a)anthracene	5.2E-02	mg/kg	7.7E-11	mg/m^3	R	7.7E-12	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	6.6E-11	mg/m^3	R	6.5E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	5.3E-11	mg/m^3	R	5.3E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	7.5E-11	mg/m^3	R	7.4E-12	mg/kg-day	--	--	--	--	--
	Chrysene	8.3E-02	mg/kg	1.2E-10	mg/m^3	R	1.2E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	2.6E-11	mg/m^3	R	2.6E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	7.3E-11	mg/m^3	R	7.3E-12	mg/kg-day	--	--	--	--	--
	Naphthalene*	9.8E-01	mg/kg	1.5E-09	mg/m^3	R	1.4E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	5.6E-08
	VOCs												
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	1.9E-05	mg/m^3	R	1.9E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-03
	Benzene	1.1E-01	mg/kg	1.9E-05	mg/m^3	R	1.9E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-04
	Naphthalene	1.5E+00	mg/kg	1.8E-05	mg/m^3	R	1.7E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	6.8E-04
	Xylenes	8.0E+00	mg/kg	6.7E-04	mg/m^3	R	6.6E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	3.7E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.2E-02
	1,3,5-Trimethylbenzene	6.1E-05	mg/m^3	6.1E-05	mg/m^3	M	6.0E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.5E-03
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.4E-03
	Ethylbenzene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	7.7E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-03
	Isopropylbenzene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	5.0E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	4.5E-02
	p-Isopropyltoluene	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	7.0E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	6.3E-02
	Naphthalene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	4.2E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.6E-03
	n-Propylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.6E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.0E-04
	Tetrachloroethene	4.3E-04	mg/m^3	4.3E-04	mg/m^3	M	4.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.2E-03
	Xylenes	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	4.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.7E-04
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	3.3E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	2.3E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	5.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	3.1E-07	mg/kg-day	--	--	--
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	6.2E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	4.7E-06	mg/kg-day	5.0E-02	mg/kg-day	9.3E-05
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	6.7E-07	mg/kg-day	4.0E-03	mg/kg-day	1.7E-04
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.8E-04
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	5.1E-05	mg/kg-day	2.0E-01	mg/kg-day	2.5E-04
	(Total)										1.5E-01

TABLE 7.7.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	2.9E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	2.4E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	3.3E-08	mg/kg-day	--	--	--
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	5.5E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	3.3E-08	mg/kg-day	--	--	--
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	5.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	3.7E-07	mg/kg-day	5.0E-02	mg/kg-day	7.5E-06
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	5.4E-08	mg/kg-day	4.0E-03	mg/kg-day	1.3E-05
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	7.7E-07	mg/kg-day	2.0E-02	mg/kg-day	3.9E-05
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	4.1E-06	mg/kg-day	2.0E-01	mg/kg-day	2.0E-05
	(Total)										3.8E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	7.1E+00	mg/kg	1.1E-08	mg/m^3	R	5.0E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	5.8E-04
	SVOCs												
	2-Methylnaphthalene	3.1E+00	mg/kg	4.6E-09	mg/m^3	R	2.2E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	8.4E-07
	Benzo(a)anthracene	5.2E-02	mg/kg	7.7E-11	mg/m^3	R	3.7E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	4.4E-02	mg/kg	6.6E-11	mg/m^3	R	3.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	3.5E-02	mg/kg	5.3E-11	mg/m^3	R	2.5E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.0E-02	mg/kg	7.5E-11	mg/m^3	R	3.5E-11	mg/kg-day	--	--	--	--	--
	Chrysene	8.3E-02	mg/kg	1.2E-10	mg/m^3	R	5.9E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	2.6E-11	mg/m^3	R	1.2E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	7.3E-11	mg/m^3	R	3.5E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	9.8E-01	mg/kg	1.5E-09	mg/m^3	R	6.9E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.7E-07
	VOCs												
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	1.7E-05	mg/m^3	R	8.3E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.8E-03
	Benzene	1.1E-01	mg/kg	1.8E-05	mg/m^3	R	8.4E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.9E-04
	Naphthalene	1.5E+00	mg/kg	1.6E-05	mg/m^3	R	7.6E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.0E-03
	Xylenes	8.0E+00	mg/kg	6.1E-04	mg/m^3	R	2.9E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	8.9E-04	mg/m^3	8.9E-04	mg/m^3	M	4.2E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.4E-01
	1,3,5-Trimethylbenzene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	6.8E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.0E-02
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.3E-02
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	8.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-02
	Isopropylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	5.6E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	5.0E-01
	p-Isopropyltoluene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	7.9E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	7.1E-01
	Naphthalene	9.9E-05	mg/m^3	9.9E-05	mg/m^3	M	4.7E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.8E-02
	n-Propylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.5E-03
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	4.8E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.8E-02
	Xylenes	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	2.5E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.3E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.7.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	3.0E-07	mg/kg-day	1.5E+00	$mg/kg\text{-}day^{-1}$	4.6E-07
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	2.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.7E-09
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	1.9E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.3E-08
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	1.5E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.8E-09
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	2.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.6E-09
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	3.6E-09	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	4.3E-10
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	7.5E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.1E-09
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	2.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.5E-09
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	4.2E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	4.5E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.5E-10
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	3.4E-07	mg/kg-day	--	--	--
	(Total)										4.9E-07

TABLE 8.7.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
Dermal	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	5.2E-09	mg/kg-day	1.5E+00	mg/kg-day^{-1}	7.7E-09
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	9.7E-09	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	1.6E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.0E-10
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	1.4E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.7E-09
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	1.1E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.3E-10
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.6E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-10
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	2.6E-10	mg/kg-day	1.2E-01	mg/kg-day^{-1}	3.1E-11
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	5.5E-11	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.3E-10
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	1.5E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-10
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	2.4E-09	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	1.8E-09	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	2.6E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	2.6E-11
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.7E-09	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	1.9E-08	mg/kg-day	--	--	--
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	1.1E-08	mg/m^3	R	9.9E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.2E-09
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	4.6E-09	mg/m^3	R	4.3E-11	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	7.7E-11	mg/m^3	R	7.2E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.8E-13
	Benzo(a)pyrene	4.4E-02	mg/kg	6.6E-11	mg/m^3	R	6.1E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.4E-12
	Benzo(b)fluoranthene	3.5E-02	mg/kg	5.3E-11	mg/m^3	R	5.0E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.9E-13
	Benzo(k)fluoranthene	5.0E-02	mg/kg	7.5E-11	mg/m^3	R	7.0E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.7E-13
	Chrysene	8.3E-02	mg/kg	1.2E-10	mg/m^3	R	1.2E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	4.5E-14
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	2.6E-11	mg/m^3	R	2.4E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.0E-12
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	7.3E-11	mg/m^3	R	6.8E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.7E-13
	Naphthalene*	9.8E-01	mg/kg	1.5E-09	mg/m^3	R	1.4E-11	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	1.9E-05	mg/m^3	R	1.8E-07	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.9E-05	mg/m^3	R	1.8E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-08
	Naphthalene	1.5E+00	mg/kg	1.8E-05	mg/m^3	R	1.6E-07	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	6.7E-04	mg/m^3	R	6.2E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	3.5E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	6.1E-05	mg/m^3	6.1E-05	mg/m^3	M	5.7E-07	mg/kg-day	--	--	--
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
	Ethylbenzene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	7.3E-05	mg/kg-day	--	--	--
	Isopropylbenzene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	4.7E-04	mg/kg-day	--	--	--
	p-Isopropyltoluene	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	6.6E-04	mg/kg-day	--	--	--
	Naphthalene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	3.9E-07	mg/kg-day	--	--	--
	n-Propylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.5E-06	mg/kg-day	--	--	--
	Tetrachloroethene	4.3E-04	mg/m^3	4.3E-04	mg/m^3	M	4.0E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.4E-08
	Xylenes	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	$mg/kg\text{-}day^{-1}$	2.7E-06
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	7.7E-07	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	1.3E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.6E-08
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	1.1E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-07
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	8.9E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-08
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.3E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-08
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	2.1E-08	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	2.5E-09
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	4.4E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-08
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	1.2E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.5E-08
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	2.5E-07	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	1.8E-07	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	2.6E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-09
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.8E-07	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	2.0E-06	mg/kg-day	--	--	--
	(Total)										2.9E-06

TABLE 8.7.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-24

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	7.1E+00	mg/kg	M	3.5E-08	mg/kg-day	1.5E+00	$mg/kg\text{-}day^{-1}$	5.3E-08
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	3.1E+00	mg/kg	M	6.6E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	5.2E-02	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.3E-09
	Benzo(a)pyrene	4.4E-02	mg/kg	4.4E-02	mg/kg	M	9.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.1E-08
	Benzo(b)fluoranthene	3.5E-02	mg/kg	3.5E-02	mg/kg	M	7.6E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	9.1E-10
	Benzo(k)fluoranthene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.3E-09
	Chrysene	8.3E-02	mg/kg	8.3E-02	mg/kg	M	1.8E-09	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	2.1E-10
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	1.7E-02	mg/kg	M	3.7E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.5E-09
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	4.9E-02	mg/kg	M	1.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.3E-09
	Naphthalene*	9.8E-01	mg/kg	9.8E-01	mg/kg	M	1.6E-08	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	7.3E-01	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.1E-01	mg/kg	M	1.7E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-10
	Naphthalene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	8.0E+00	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	(Total)										7.1E-08
										Total Risk Across All Exposure Routes/Pathways	2.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	7.1E+00	mg/kg	1.1E-08	mg/m^3	R	3.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.0E-09
	SVOCs										
	2-Methylnaphthalene	3.1E+00	mg/kg	4.6E-09	mg/m^3	R	1.5E-10	mg/kg-day	--	--	--
	Benzo(a)anthracene	5.2E-02	mg/kg	7.7E-11	mg/m^3	R	2.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.6E-13
	Benzo(a)pyrene	4.4E-02	mg/kg	6.6E-11	mg/m^3	R	2.1E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.1E-12
	Benzo(b)fluoranthene	3.5E-02	mg/kg	5.3E-11	mg/m^3	R	1.7E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.6E-13
	Benzo(k)fluoranthene	5.0E-02	mg/kg	7.5E-11	mg/m^3	R	2.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.3E-13
	Chrysene	8.3E-02	mg/kg	1.2E-10	mg/m^3	R	3.9E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-13
	Dibenzo(a,h)anthracene	1.7E-02	mg/kg	2.6E-11	mg/m^3	R	8.3E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.4E-12
	Indeno(1,2,3-cd)pyrene	4.9E-02	mg/kg	7.3E-11	mg/m^3	R	2.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.1E-13
	Naphthalene*	9.8E-01	mg/kg	1.5E-09	mg/m^3	R	4.6E-11	mg/kg-day	--	--	--
	VOCs										
	1,2,4-Trimethylbenzene	7.3E-01	mg/kg	1.7E-05	mg/m^3	R	5.5E-07	mg/kg-day	--	--	--
	Benzene	1.1E-01	mg/kg	1.8E-05	mg/m^3	R	5.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.6E-08
	Naphthalene	1.5E+00	mg/kg	1.6E-05	mg/m^3	R	5.1E-07	mg/kg-day	--	--	--
	Xylenes	8.0E+00	mg/kg	6.1E-04	mg/m^3	R	1.9E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	8.9E-04	mg/m^3	8.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	4.5E-06	mg/kg-day	--	--	--
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	9.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.6E-06
	Ethylbenzene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	5.8E-04	mg/kg-day	--	--	--
	Isopropylbenzene	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	3.8E-03	mg/kg-day	--	--	--
	p-Isopropyltoluene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	5.3E-03	mg/kg-day	--	--	--
	Naphthalene	9.9E-05	mg/m^3	9.9E-05	mg/m^3	M	3.1E-06	mg/kg-day	--	--	--
	n-Propylbenzene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	1.2E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	3.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.7E-07
	Xylenes	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	1.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.7.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	4.6E-07	--	7.7E-09	4.6E-07	Arsenic	Skin	1.1E-02	--	1.8E-04	1.1E-02
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	7.0E-05	--	5.1E-06	7.5E-05
			Benzo(a)anthracene	2.7E-09	--	2.0E-10	2.9E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.3E-08	--	1.7E-09	2.4E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.8E-09	--	1.3E-10	2.0E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.6E-09	--	1.9E-10	2.8E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	4.3E-10	--	3.1E-11	4.6E-10	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.1E-09	--	2.3E-10	3.3E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.5E-09	--	1.9E-10	2.7E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*					Naphthalene*	Weight	2.2E-05	--	1.3E-06	2.4E-05
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	6.7E-06	--	3.8E-07	7.1E-06
			Benzene	4.5E-10	--	2.6E-11	4.8E-10	Benzene	Blood	1.2E-05	--	6.8E-07	1.3E-05
			Naphthalene	--	--	--	--	Naphthalene	Weight	3.5E-05	--	2.0E-06	3.7E-05
			Xylenes	--	--	--	--	Xylenes	Weight	1.8E-05	--	1.0E-06	1.9E-05
			(Total)	4.9E-07	--	1.0E-08	5.0E-07	(Total)		1.1E-02	--	1.9E-04	1.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.2E-09	--	1.2E-09	Arsenic	Developmental	--	1.2E-04	--	1.2E-04
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	1.8E-07	--	1.8E-07
			Benzo(a)anthracene	--	2.8E-13	--	2.8E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.4E-12	--	2.4E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.9E-13	--	1.9E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.7E-13	--	2.7E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	4.5E-14	--	4.5E-14	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.0E-12	--	1.0E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	2.7E-13	--	2.7E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	5.6E-08	--	5.6E-08
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.1E-03	--	1.1E-03
			Benzene	--	1.8E-08	--	1.8E-08	Benzene	Blood	--	1.1E-04	--	1.1E-04
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	6.8E-04	--	6.8E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.3E-04	--	3.3E-04
			(Total)	--	1.9E-08	--	1.9E-08	(Total)		--	2.4E-03	--	2.4E-03

TABLE 9.7.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.2E-02	--	2.2E-02
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	3.5E-03	--	3.5E-03
			Benzene	--	1.2E-06	--	1.2E-06	Benzene	Blood	--	7.4E-03	--	7.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-03	--	1.4E-03
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	4.5E-02	--	4.5E-02
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	6.3E-02	--	6.3E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.6E-03	--	1.6E-03
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.0E-04	--	4.0E-04
			Tetrachloroethene	--	8.4E-08	--	8.4E-08	Tetrachloroethene	Liver/Kidney	--	4.2E-03	--	4.2E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-02	--	1.1E-02
			(Total)	--	1.3E-06	--	1.3E-06	(Total)		--	1.6E-01	--	1.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.2E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.3E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.6E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.7.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	2.7E-06	--	5.3E-08	2.7E-06	Arsenic	Skin	1.5E-01	--	3.6E-03	1.5E-01
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	9.7E-04	--	1.0E-04	1.1E-03
			Benzo(a)anthracene	1.6E-08	--	1.3E-09	1.7E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.3E-07	--	1.1E-08	1.4E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.1E-08	--	9.1E-10	1.2E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.5E-08	--	1.3E-09	1.6E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.5E-09	--	2.1E-10	2.7E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.8E-08	--	1.5E-09	1.9E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.5E-08	--	1.3E-09	1.6E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	3.1E-04	--	2.5E-05	3.4E-04
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	Weight	9.3E-05	--	7.5E-06	1.0E-04
			Benzene	2.6E-09	--	1.7E-10	2.8E-09	Benzene	Blood	1.7E-04	--	1.3E-05	1.8E-04
			Naphthalene	--	--	--	--	Naphthalene	Weight	4.8E-04	--	3.9E-05	5.2E-04
			Xylenes	--	--	--	--	Xylenes	Weight	2.5E-04	--	2.0E-05	2.7E-04
			(Total)	2.9E-06	--	7.1E-08	2.9E-06	(Total)		1.5E-01	--	3.8E-03	1.6E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	4.0E-09	--	4.0E-09	Arsenic	Developmental	--	5.8E-04	--	5.8E-04
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	8.4E-07	--	8.4E-07
			Benzo(a)anthracene	--	9.6E-13	--	9.6E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	8.1E-12	--	8.1E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	6.6E-13	--	6.6E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	9.3E-13	--	9.3E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.5E-13	--	1.5E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.4E-12	--	3.4E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	9.1E-13	--	9.1E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	2.7E-07	--	2.7E-07
			VOCs					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	4.8E-03	--	4.8E-03
			Benzene	--	5.6E-08	--	5.6E-08	Benzene	Blood	--	4.9E-04	--	4.9E-04
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.0E-03	--	3.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.4E-03	--	1.4E-03
			(Total)	--	6.0E-08	--	6.0E-08	(Total)		--	1.0E-02	--	1.0E-02

TABLE 9.7.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.4E-01	--	2.4E-01
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	4.0E-02	--	4.0E-02
			Benzene	--	9.6E-06	--	9.6E-06	Benzene	Blood	--	8.3E-02	--	8.3E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-02	--	1.5E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	5.0E-01	--	5.0E-01
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	7.1E-01	--	7.1E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.8E-02	--	1.8E-02
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.5E-03	--	4.5E-03
			Tetrachloroethene	--	6.7E-07	--	6.7E-07	Tetrachloroethene	Liver/Kidney	--	4.8E-02	--	4.8E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.3E-01	--	1.3E-01
			(Total)	--	1.0E-05	--	1.0E-05	(Total)		--	1.8E+00	--	1.8E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.0E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.0E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.8E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-26	**EAPC No.:** 8

CT Exposure Scenario

TABLE 7.8.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	2.3E-08	mg/kg-day	4.0E-03	mg/kg-day	5.7E-06
	(Total)										5.7E-06
Dermal	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.3E-09	mg/kg-day	4.0E-03	mg/kg-day	3.2E-07
	(Total)										3.2E-07
										Total Hazard Index Across All Exposure Routes/Pathways	6.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.0E-02	mg/kg	9.2E-06	mg/m^3	R	9.1E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-26

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	6.0E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.5E-03
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.7E-07	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	1.4E-05
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	3.1E-06	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	5.4E-05
	Xylenes	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	1.5E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.5E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.3E-03
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	3.2E-07	mg/kg-day	4.0E-03	mg/kg-day	7.9E-05
	(Total)										7.9E-05
Dermal	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	2.5E-08	mg/kg-day	4.0E-03	mg/kg-day	6.3E-06
	(Total)										6.3E-06
										Total Hazard Index Across All Exposure Routes/Pathways	8.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.0E-02	mg/kg	8.4E-06	mg/m^3	R	4.0E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.8.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	6.8E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-02
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	4.1E-06	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	1.6E-04
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	3.5E-05	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	6.1E-04
	Xylenes	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	1.7E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	4.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	7.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.8.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	2.1E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.1E-10
	(Total)										2.1E-10
Dermal	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.2E-10	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.2E-11
	(Total)										1.2E-11
										Total Risk Across All Exposure Routes/Pathways	2.3E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.0E-02	mg/kg	9.2E-06	mg/m^3	R	8.6E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.6E-09
										Total Risk Across All Exposure Routes/Pathways	8.6E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	5.7E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.7E-07
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.5E-08	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	2.2E-10
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	2.9E-07	mg/kg-day	--	--	--
	Xylenes	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	1.4E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-06
										Total Risk Across All Exposure Routes/Pathways	1.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	1.2E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.2E-09
	(Total)										1.2E-09
Dermal	**VOCs**										
	Benzene	5.0E-02	mg/kg	5.0E-02	mg/kg	M	8.2E-10	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	8.2E-11
	(Total)										8.2E-11
										Total Risk Across All Exposure Routes/Pathways	1.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.0E-02	mg/kg	8.4E-06	mg/m^3	R	2.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-08
										Total Risk Across All Exposure Routes/Pathways	2.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	4.5E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.5E-06
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	2.7E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	1.7E-09
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	2.3E-06	mg/kg-day	--	--	--
	Xylenes	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	8.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.1E-06
										Total Risk Across All Exposure Routes/Pathways	8.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.8.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-26
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	2.1E-10	--	1.2E-11	2.3E-10	Benzene	Blood	5.7E-06	--	3.2E-07	6.0E-06
			(Total)	2.1E-10	--	1.2E-11	2.3E-10	(Total)		5.7E-06	--	3.2E-07	6.0E-06
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	8.6E-09	--	8.6E-09	Benzene	Blood	--	5.3E-05	--	5.3E-05
			(Total)	--	8.6E-09	--	8.6E-09	(Total)		--	5.3E-05	--	5.3E-05
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.7E-07	--	5.7E-07	Benzene	Blood	--	3.5E-03	--	3.5E-03
			Chloromethane	--	2.2E-10	--	2.2E-10	Chloromethane	CNS	--	1.4E-05	--	1.4E-05
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	5.4E-05	--	5.4E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.5E-05	--	7.5E-05
			(Total)	--	5.7E-07	--	5.7E-07	(Total)		--	3.7E-03	--	3.7E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.0E-06	--	1.0E-06	Benzene	Blood	--	6.3E-03	--	6.3E-03
			(Total)	--	1.0E-06	--	1.0E-06	(Total)		--	6.3E-03	--	6.3E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.8E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.9E-05
Total Risk for Shallow Soil-to-Indoor Air =	5.7E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.7E-03
Total Risk for Deep Soil-to-Indoor Air =	1.0E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	6.3E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.8.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.2E-09	--	8.2E-11	1.3E-09	Benzene	Blood	7.9E-05	--	6.3E-06	8.6E-05
			(Total)	1.2E-09	--	8.2E-11	1.3E-09	(Total)		7.9E-05	--	6.3E-06	8.6E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	2.7E-08	--	2.7E-08	Benzene	Blood	--	2.3E-04	--	2.3E-04
			(Total)	--	2.7E-08	--	2.7E-08	(Total)		--	2.3E-04	--	2.3E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.5E-06	--	4.5E-06	Benzene	Blood	--	3.9E-02	--	3.9E-02
			Chloromethane	--	1.7E-09	--	1.7E-09	Chloromethane	CNS	--	1.6E-04	--	1.6E-04
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	6.1E-04	--	6.1E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	8.4E-04	--	8.4E-04
			(Total)	--	4.5E-06	--	4.5E-06	(Total)		--	4.1E-02	--	4.1E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	8.1E-06	--	8.1E-06	Benzene	Blood	--	7.1E-02	--	7.1E-02
			(Total)	--	8.1E-06	--	8.1E-06	(Total)		--	7.1E-02	--	7.1E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.8E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.2E-04
Total Risk for Shallow Soil-to-Indoor Air =	4.5E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.1E-02
Total Risk for Deep Soil-to-Indoor Air =	8.1E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	7.1E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-27	**EAPC No.:** 9

CT Exposure Scenario

TABLE 7.9.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.5E-07	mg/kg-day	4.0E-03	mg/kg-day	3.8E-05
	(Total)										3.8E-05
Dermal	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.6E-09	mg/kg-day	4.0E-03	mg/kg-day	2.2E-06
	(Total)										2.2E-06
										Total Hazard Index Across All Exposure Routes/Pathways	4.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.3E-01	mg/kg	6.2E-05	mg/m^3	R	6.1E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.0E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.1E-05
	Benzene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	4.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-02
	Methyl isobutyl ketone	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.0E-05	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	1.2E-05
	Xylenes	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.9E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	9.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.5E-02
	Naphthalene	2.0E-06	mg/m^3	2.0E-06	mg/m^3	M	2.0E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	7.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	6.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.0E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.7E-03
	1,1-Dichloroethane	8.5E-04	mg/m^3	8.5E-04	mg/m^3	M	8.4E-05	mg/kg-day	1.4E-01	mg/kg-day	4.9E-01	mg/m3	6.0E-04
	Benzene	5.2E-03	mg/m^3	5.2E-03	mg/m^3	M	5.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E-02
	Cyclohexane	6.2E-03	mg/m^3	6.2E-03	mg/m^3	M	6.1E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.6E-04
	Ethylbenzene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	4.7E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.2E-04
	Methyl Ethyl Ketone	6.7E-03	mg/m^3	6.7E-03	mg/m^3	M	6.6E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	4.7E-04
	Methylene Chloride	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	9.3E-04
	Styrene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	3.0E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	3.2E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-02
	Toluene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.1E-02
	Xylenes	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.3E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.1E-06	mg/kg-day	4.0E-03	mg/kg-day	5.3E-04
	(Total)										5.3E-04
Dermal	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.7E-07	mg/kg-day	4.0E-03	mg/kg-day	4.3E-05
	(Total)										4.3E-05
										Total Hazard Index Across All Exposure Routes/Pathways	5.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.3E-01	mg/kg	5.6E-05	mg/m^3	R	2.7E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.2E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.8E-04
	Benzene	9.6E-03	mg/m^3	9.6E-03	mg/m^3	M	4.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-01
	Methyl isobutyl ketone	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.1E-04	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	1.3E-04
	Xylenes	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	2.1E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	1.3E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.3E-01
	Naphthalene	4.7E-06	mg/m^3	4.7E-06	mg/m^3	M	2.2E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	8.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	7.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.9.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.4E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.4E-09
	(Total)										1.4E-09
Dermal	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.1E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.1E-11
	(Total)										8.1E-11
										Total Risk Across All Exposure Routes/Pathways	1.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.3E-01	mg/kg	6.2E-05	mg/m^3	R	5.8E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.8E-08
										Total Risk Across All Exposure Routes/Pathways	5.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	9.9E-09	mg/kg-day	--	--	--
	Benzene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	3.8E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.8E-06
	Methyl isobutyl ketone	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	9.5E-07	mg/kg-day	--	--	--
	Xylenes	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-05
	Naphthalene	2.0E-06	mg/m^3	2.0E-06	mg/m^3	M	1.9E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	9.9E-05	mg/kg-day	--	--	--
	1,1-Dichloroethane	8.5E-04	mg/m^3	8.5E-04	mg/m^3	M	7.9E-06	mg/kg-day	5.7E-03	$mg/kg\text{-}day^{-1}$	4.5E-08
	Benzene	5.2E-03	mg/m^3	5.2E-03	mg/m^3	M	4.8E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.8E-06
	Cyclohexane	6.2E-03	mg/m^3	6.2E-03	mg/m^3	M	5.8E-05	mg/kg-day	--	--	--
	Ethylbenzene	4.7E-03	mg/m^3	4.7E-03	mg/m^3	M	4.4E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	6.7E-03	mg/m^3	6.7E-03	mg/m^3	M	6.3E-05	mg/kg-day	--	--	--
	Methylene Chloride	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.0E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	3.5E-08
	Styrene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	3.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.4E-07
	Toluene	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.7E-04	mg/kg-day	--	--	--
	Xylenes	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.4E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.4E-09
	(Total)										8.4E-09
Dermal	**VOCs**										
	Benzene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	5.5E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	5.5E-10
	(Total)										5.5E-10
										Total Risk Across All Exposure Routes/Pathways	8.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.3E-01	mg/kg	5.6E-05	mg/m^3	R	1.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-07
										Total Risk Across All Exposure Routes/Pathways	1.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	7.9E-08	mg/kg-day	--	--	--
	Benzene	9.6E-03	mg/m^3	9.6E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-05
	Methyl isobutyl ketone	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	7.5E-06	mg/kg-day	--	--	--
	Xylenes	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	1.4E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	8.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.4E-05
	Naphthalene	4.7E-06	mg/m^3	4.7E-06	mg/m^3	M	1.5E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.9.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-27
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.4E-09	--	8.1E-11	1.5E-09	Benzene	Blood	3.8E-05	--	2.2E-06	4.0E-05
			(Total)	1.4E-09	--	8.1E-11	1.5E-09	(Total)		3.8E-05	--	2.2E-06	4.0E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	5.8E-08	--	5.8E-08	Benzene	Blood	--	3.6E-04	--	3.6E-04
			(Total)	--	5.8E-08	--	5.8E-08	(Total)		--	3.6E-04	--	3.6E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.1E-05	--	6.1E-05
			Benzene	--	3.8E-06	--	3.8E-06	Benzene	Blood	--	2.4E-02	--	2.4E-02
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	1.2E-05	--	1.2E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	9.6E-06	--	9.6E-06
			(Total)	--	3.8E-06	--	3.8E-06	(Total)		--	2.4E-02	--	2.4E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.1E-05	--	1.1E-05	Benzene	Blood	--	6.5E-02	--	6.5E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	7.7E-05	--	7.7E-05
			(Total)	--	1.1E-05	--	1.1E-05	(Total)		--	6.5E-02	--	6.5E-02
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	3.7E-03	--	3.7E-03
			1,1-Dichloroethane	--	4.5E-08	--	4.5E-08	1,1-Dichloroethane	Kidney	--	6.0E-04	--	6.0E-04
			Benzene	--	4.8E-06	--	4.8E-06	Benzene	Blood	--	3.0E-02	--	3.0E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.6E-04	--	3.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.2E-04	--	8.2E-04
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	4.7E-04	--	4.7E-04
			Methylene Chloride	--	3.5E-08	--	3.5E-08	Methylene Chloride	Liver	--	9.3E-04	--	9.3E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	6.4E-07	--	6.4E-07	Tetrachloroethene	Liver/Kidney	--	3.2E-02	--	3.2E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.1E-02	--	2.1E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	8.3E-03	--	8.3E-03
			(Total)	--	5.6E-06	--	5.6E-06	(Total)		--	1.0E-01	--	1.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.9E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.0E-04
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.4E-02
Total Risk for Deep Soil-to-Indoor Air =	1.1E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	6.5E-02
Total Risk for Workplace Indoor Air =	5.6E-06	Total Hazard Index for Workplace Indoor Air =	1.0E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.9.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	8.4E-09	--	5.5E-10	8.9E-09	Benzene	Blood	5.3E-04	--	4.3E-05	5.8E-04
			(Total)	8.4E-09	--	5.5E-10	8.9E-09	(Total)		5.3E-04	--	4.3E-05	5.8E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.8E-07	--	1.8E-07	Benzene	Blood	--	1.6E-03	--	1.6E-03
			(Total)	--	1.8E-07	--	1.8E-07	(Total)		--	1.6E-03	--	1.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.8E-04	--	6.8E-04
			Benzene	--	3.0E-05	--	3.0E-05	Benzene	Blood	--	2.7E-01	--	2.7E-01
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	1.3E-04	--	1.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-04	--	1.1E-04
			(Total)	--	3.0E-05	--	3.0E-05	(Total)		--	2.7E-01	--	2.7E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	8.4E-05	--	8.4E-05	Benzene	Blood	--	7.3E-01	--	7.3E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	8.7E-04	--	8.7E-04
			(Total)	--	8.4E-05	--	8.4E-05	(Total)		--	7.3E-01	--	7.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.9E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.1E-03
Total Risk for Shallow Soil-to-Indoor Air =	3.0E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.7E-01
Total Risk for Deep Soil-to-Indoor Air =	8.4E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	7.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-30	**EAPC No.:** 10

CT Exposure Scenario

TABLE 7.10.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-30

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral Reference Dose (2)	Oral Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.5E-04	mg/kg-day	1.4E-01	mg/kg-day	1.8E-03
	(Total)										5.0E-03
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.4E-06	mg/kg-day	1.4E-01	mg/kg-day	1.0E-05
	(Total)										1.2E-05
										Total Hazard Index Across All Exposure Routes/Pathways	5.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-30

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	8.2E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	2.8E-04	mg/kg-day	4.0E-02	mg/kg-day	6.9E-03
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.5E-04	mg/kg-day	1.4E-01	mg/kg-day	1.8E-03
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	9.7E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-02
	(Total)										2.3E-02
Dermal	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.0E-09	mg/kg-day	1.0E-03	mg/kg-day	1.0E-06
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	1.6E-06	mg/kg-day	4.0E-02	mg/kg-day	3.9E-05
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.4E-06	mg/kg-day	1.4E-01	mg/kg-day	1.0E-05
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	5.5E-09	mg/kg-day	8.0E-05	mg/kg-day	6.8E-05
	(Total)										1.2E-04
										Total Hazard Index Across All Exposure Routes/Pathways	2.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	5.8E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.0E-04
	Copper	6.0E+02	mg/kg	9.1E-07	mg/m^3	R	9.0E-08	mg/kg-day	--	--	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	8.2E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.4E-03
	Thallium	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	3.1E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	2.9E-05	mg/m^3	2.9E-05	mg/m^3	M	2.9E-06	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	3.2E-06
	Methyl tert-Butyl Ether	5.6E-05	mg/m^3	5.6E-05	mg/m^3	M	5.6E-06	mg/kg-day	2.3E+00	mg/kg-day	8.0E+00	mg/m3	2.4E-06
	Naphthalene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	1.1E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	4.4E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	3.9E-03	mg/kg-day	4.0E-02	mg/kg-day	9.6E-02
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	3.5E-03	mg/kg-day	1.4E-01	mg/kg-day	2.5E-02
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	1.3E-05	mg/kg-day	8.0E-05	mg/kg-day	1.7E-01
	(Total)										3.2E-01
Dermal	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	2.0E-08	mg/kg-day	1.0E-03	mg/kg-day	2.0E-05
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	3.1E-05	mg/kg-day	4.0E-02	mg/kg-day	7.7E-04
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.8E-05	mg/kg-day	1.4E-01	mg/kg-day	2.0E-04
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	1.1E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
	(Total)										2.3E-03
										Total Hazard Index Across All Exposure Routes/Pathways	3.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	2.8E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.9E-04
	Copper	6.0E+02	mg/kg	9.1E-07	mg/m^3	R	4.3E-07	mg/kg-day	--	--	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	3.9E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	6.8E-03
	Thallium	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	1.5E-09	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	7.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.10.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	6.9E-05	mg/m^3	6.9E-05	mg/m^3	M	3.3E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	3.6E-05
	Methyl tert-Butyl Ether	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	6.2E-05	mg/kg-day	2.3E+00	mg/kg-day	8.0E+00	mg/m3	2.7E-05
	Naphthalene	2.7E-07	mg/m^3	2.7E-07	mg/m^3	M	1.3E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	5.0E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.10.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.4E-05	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	(Total)										--
								Total Risk Across All Exposure Routes/Pathways			--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	9.7E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	7.7E-09	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	1.7E-07	mg/kg-day	--	--	--
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	2.6E-05	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	2.4E-05	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	9.1E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	9.5E-11	mg/kg-day	--	--	--
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	5.1E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	5.5E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.2E-10
	Copper	6.0E+02	mg/kg	9.1E-07	mg/m^3	R	8.4E-09	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	7.7E-09	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	3.0E-11	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.2E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	2.9E-05	mg/m^3	2.9E-05	mg/m^3	M	2.7E-07	mg/kg-day	--	--	--
	Methyl tert-Butyl Ether	5.6E-05	mg/m^3	5.6E-05	mg/m^3	M	5.3E-07	mg/kg-day	9.1E-04	$mg/kg\text{-}day^{-1}$	4.8E-10
	Naphthalene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	1.1E-09	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.8E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	9.8E-07	mg/kg-day	--	--	--
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	1.5E-04	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	1.4E-04	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	5.3E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	3.9E+00	mg/kg	M	6.5E-10	mg/kg-day	--	--	--
	Copper	6.0E+02	mg/kg	6.0E+02	mg/kg	M	1.0E-06	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	5.5E+02	mg/kg	M	9.1E-07	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	2.1E+00	mg/kg	M	3.5E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	3.9E+00	mg/kg	5.9E-09	mg/m^3	R	1.9E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.8E-09
	Copper	6.0E+02	mg/kg	9.1E-07	mg/m^3	R	2.9E-08	mg/kg-day	--	--	--
	Manganese	5.5E+02	mg/kg	8.3E-07	mg/m^3	R	2.6E-08	mg/kg-day	--	--	--
	Thallium	2.1E+00	mg/kg	3.2E-09	mg/m^3	R	1.0E-10	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.10.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	6.9E-05	mg/m^3	6.9E-05	mg/m^3	M	2.2E-06	mg/kg-day	--	--	--
	Methyl tert-Butyl Ether	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	4.2E-06	mg/kg-day	9.1E-04	$mg/kg\text{-}day^{-1}$	3.8E-09
	Naphthalene	2.7E-07	mg/m^3	2.7E-07	mg/m^3	M	8.5E-09	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.10.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-30
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	3.2E-03	--	1.8E-06	3.2E-03
			Manganese	--	--	--	--	Manganese	CNS	1.8E-03	--	1.0E-05	1.8E-03
			(Total)	--	--	--	--	(Total)		5.0E-03	--	1.2E-05	5.0E-03
	Outdoor Air	Surface soil vapors	**Inorganics**					**Inorganics**					
		and particulates in	Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
		Ambient Air	Manganese	--	--	--	--	Manganese	CNS	--	1.4E-03	--	1.4E-03
			(Total)	--	1.4E-09	--	1.4E-09	(Total)		--	1.6E-03	--	1.6E-03
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.8E-03	--	1.0E-06	1.8E-03
			Copper	--	--	--	--	Copper	GI	6.9E-03	--	3.9E-05	6.9E-03
			Manganese	--	--	--	--	Manganese	CNS	1.8E-03	--	1.0E-05	1.8E-03
			Thallium	--	--	--	--	Thallium	NOAEL	1.2E-02	--	6.8E-05	1.2E-02
			(Total)	--	--	--	--	(Total)		2.3E-02	--	1.2E-04	2.3E-02
	Outdoor Air	Shallow soil vapors	**Inorganics**					**Inorganics**					
		and particulates in	Cadmium	--	8.2E-10	--	8.2E-10	Cadmium	Kidney	--	1.0E-04	--	1.0E-04
		Ambient Air	Copper	--	--	--	--	Copper	--	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	--	1.4E-03	--	1.4E-03
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			(Total)	--	8.2E-10	--	8.2E-10	(Total)		--	1.5E-03	--	1.5E-03
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Acetone	--	--	--	--	Acetone	Kidney	--	3.2E-06	--	3.2E-06
		Using the J&E Model	Methyl tert-Butyl Ether	--	4.8E-10	--	4.8E-10	Methyl tert-Butyl Ether	Kidney	--	2.4E-06	--	2.4E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	4.4E-06	--	4.4E-06
			(Total)	--	4.8E-10	--	4.8E-10	(Total)		--	1.0E-05	--	1.0E-05

Total Risk Across Surface Soil =	1.4E-09	Total Hazard Index Across Surface Soil =	6.6E-03
Total Risk Across Shallow Soil (0-15' bgs) =	8.2E-10	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.4E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.8E-10	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.0E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.10.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-30
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	2.5E-02	--	2.0E-05	2.5E-02
			Copper	--	--	--	--	Copper	GI	9.6E-02	--	7.7E-04	9.7E-02
			Manganese	--	--	--	--	Manganese	CNS	2.5E-02	--	2.0E-04	2.5E-02
			Thallium	--	--	--	--	Thallium	NOAEL	1.7E-01	--	1.3E-03	1.7E-01
			(Total)	--	--	--	--	(Total)		3.2E-01	--	2.3E-03	3.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.8E-09	--	2.8E-09	Cadmium	Kidney	--	4.9E-04	--	4.9E-04
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	--	6.8E-03	--	6.8E-03
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			(Total)	--	2.8E-09	--	2.8E-09	(Total)		--	7.3E-03	--	7.3E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	3.6E-05	--	3.6E-05
			Methyl tert-Butyl Ether	--	3.8E-09	--	3.8E-09	Methyl tert-Butyl Ether	Kidney	--	2.7E-05	--	2.7E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	5.0E-05	--	5.0E-05
			(Total)	--	3.8E-09	--	3.8E-09	(Total)		--	1.1E-04	--	1.1E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.8E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.2E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-34	**EAPC No.:** 11

CT Exposure Scenario

TABLE 7.11.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-34

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.2E-09	mg/kg-day	5.0E-05	mg/kg-day	6.4E-05
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-10	mg/kg-day	5.0E-05	mg/kg-day	3.6E-06
	(Total)										2.4E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.5E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	1.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.2E-09	mg/kg-day	5.0E-05	mg/kg-day	6.4E-05
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.6E-07	mg/kg-day	4.0E-03	mg/kg-day	1.9E-04
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-10	mg/kg-day	5.0E-05	mg/kg-day	3.6E-06
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.3E-08	mg/kg-day	4.0E-03	mg/kg-day	1.1E-05
	(Total)										2.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.11.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.5E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	1.0E-12	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.7E+00	mg/kg	3.1E-04	mg/m^3	R	3.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-01
	Tetrachloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.8E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.8E-04
	Toluene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	6.0E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.0E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	4.5E-08	mg/kg-day	5.0E-05	mg/kg-day	8.9E-04
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.1E-05	mg/kg-day	4.0E-03	mg/kg-day	2.7E-03
	(Total)										2.4E-01
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.6E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-03	mg/kg-day	3.5E-05
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.6E-09	mg/kg-day	5.0E-05	mg/kg-day	7.2E-05
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.5E-07	mg/kg-day	4.0E-03	mg/kg-day	2.1E-04
	(Total)										4.9E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.11.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	6.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.4E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	4.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	8.5E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	5.0E-12	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	1.7E+00	mg/kg	2.8E-04	mg/m^3	R	1.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.8E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	2.3E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E+00
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	2.0E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.0E-03
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	6.7E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.11.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.8E-07
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.0E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	4.8E-09
	(Total)										5.8E-07
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.5E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.8E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.7E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.7E-10
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	9.6E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	9.8E-14	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.6E-12
										Total Risk Across All Exposure Routes/Pathways	2.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.8E-07
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.0E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	4.8E-09
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.2E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	7.2E-09
	(Total)										5.9E-07
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.5E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.8E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.7E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.7E-10
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.1E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.1E-10
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	6.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	9.6E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	9.8E-14	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.6E-12
	VOCs										
	Benzene	1.7E+00	mg/kg	3.1E-04	mg/m^3	R	2.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-07
										Total Risk Across All Exposure Routes/Pathways	2.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.9E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-05
	Tetrachloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.5E-09
	Toluene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	5.6E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.4E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.8E-08
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.2E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.2E-08
	(Total)										3.4E-06
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.4E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.6E-08
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.1E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.2E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	1.9E-09
	VOCs										
	Benzene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.8E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	2.8E-09
	(Total)										7.1E-08
										Total Risk Across All Exposure Routes/Pathways	3.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	4.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.1E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	3.3E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.9E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	3.3E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	5.3E-12
	VOCs										
	Benzene	1.7E+00	mg/kg	2.8E-04	mg/m^3	R	8.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.9E-07
										Total Risk Across All Exposure Routes/Pathways	9.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.8E-02	mg/m^3	4.8E-02	mg/m^3	M	1.5E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-04
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	1.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.8E-08
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	4.5E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.11.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	5.8E-07	--	9.8E-09	5.9E-07	Arsenic	Skin	1.4E-02	--	2.3E-04	1.4E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.8E-06	3.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	4.8E-09	--	2.7E-10	5.1E-09	Dieldrin	Liver	6.4E-05	--	3.6E-06	6.8E-05
			(Total)	5.8E-07	--	1.0E-08	5.9E-07	(Total)		1.7E-02	--	2.4E-04	1.7E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.5E-09	--	1.5E-09	Arsenic	Developmental	--	1.5E-04	--	1.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.6E-12	--	1.6E-12	Dieldrin	--	--	--	--	--
			(Total)	--	2.9E-09	--	2.9E-09	(Total)		--	3.3E-04	--	3.3E-04
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	5.8E-07	--	9.8E-09	5.9E-07	Arsenic	Skin	1.4E-02	--	2.3E-04	1.4E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.8E-06	3.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	4.8E-09	--	2.7E-10	5.1E-09	Dieldrin	Liver	6.4E-05	--	3.6E-06	6.8E-05
			VOCs					**VOCs**					
			Benzene	7.2E-09	--	4.1E-10	7.6E-09	Benzene	Blood	1.9E-04	--	1.1E-05	2.0E-04
			(Total)	5.9E-07	--	1.0E-08	6.0E-07	(Total)		1.7E-02	--	2.5E-04	1.7E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.5E-09	--	1.5E-09	Arsenic	Developmental	--	1.5E-04	--	1.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.6E-12	--	1.6E-12	Dieldrin	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	2.9E-07	--	2.9E-07	Benzene	Blood	--	1.8E-03	--	1.8E-03
			(Total)	--	2.9E-07	--	2.9E-07	(Total)		--	2.1E-03	--	2.1E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.9E-05	--	1.9E-05	Benzene	Blood	--	1.2E-01	--	1.2E-01
			Tetrachloroethene	--	3.5E-09	--	3.5E-09	Tetrachloroethene	Liver/Kidney	--	1.8E-04	--	1.8E-04
			Toluene	--	--	--	--	Toluene	CNS	--	7.0E-05	--	7.0E-05
			(Total)	--	1.9E-05	--	1.9E-05	(Total)		--	1.2E-01	--	1.2E-01

Total Risk Across Surface Soil =	5.9E-07	Total Hazard Index Across Surface Soil =	1.7E-02
Total Risk Across Shallow Soil (0-15' bgs) =	8.9E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.9E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.9E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.11.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.4E-06	--	6.6E-08	3.4E-06	Arsenic	Skin	1.9E-01	--	4.6E-03	1.9E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	4.4E-02	--	3.5E-05	4.4E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	2.8E-08	--	1.9E-09	3.0E-08	Dieldrin	Liver	8.9E-04	--	7.2E-05	9.7E-04
			VOCs					**VOCs**					
			Benzene	4.2E-08	--	2.8E-09	4.5E-08	Benzene	Blood	2.7E-03	--	2.1E-04	2.9E-03
			(Total)	3.4E-06	--	7.1E-08	3.5E-06	(Total)		2.4E-01	--	4.9E-03	2.4E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	5.1E-09	--	5.1E-09	Arsenic	Developmental	--	7.4E-04	--	7.4E-04
			Cadmium	--	4.9E-09	--	4.9E-09	Cadmium	Kidney	--	8.5E-04	--	8.5E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	5.3E-12	--	5.3E-12	Dieldrin	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	8.9E-07	--	8.9E-07	Benzene	Blood	--	7.8E-03	--	7.8E-03
			(Total)	--	9.0E-07	--	9.0E-07	(Total)		--	9.4E-03	--	9.4E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.5E-04	--	1.5E-04	Benzene	Blood	--	1.3E+00	--	1.3E+00
			Tetrachloroethene	--	2.8E-08	--	2.8E-08	Tetrachloroethene	Liver/Kidney	--	2.0E-03	--	2.0E-03
			Toluene	--	--	--	--	Toluene	CNS	--	7.8E-04	--	7.8E-04
			(Total)	--	1.5E-04	--	1.5E-04	(Total)		--	1.3E+00	--	1.3E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.4E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.5E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.5E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-40	**EAPC No.:** 12

CT Exposure Scenario

TABLE 7.12.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.2E-09	mg/kg-day	5.0E-05	mg/kg-day	6.4E-05
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-10	mg/kg-day	5.0E-05	mg/kg-day	3.6E-06
	(Total)										2.4E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.5E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	1.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.2E-09	mg/kg-day	5.0E-05	mg/kg-day	6.4E-05
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-10	mg/kg-day	5.0E-05	mg/kg-day	3.6E-06
	(Total)										2.4E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.5E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	1.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.8E-06	mg/m^3	4.8E-06	mg/m^3	M	4.8E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-05
	Xylenes	6.8E-06	mg/m^3	6.8E-06	mg/m^3	M	6.7E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	4.5E-08	mg/kg-day	5.0E-05	mg/kg-day	8.9E-04
	(Total)										2.3E-01
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.6E-03
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-03	mg/kg-day	3.5E-05
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.6E-09	mg/kg-day	5.0E-05	mg/kg-day	7.2E-05
	(Total)										4.7E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	6.3E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.4E-04
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	4.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	8.5E-04
	Pesticides/PCBs												
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	5.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.12.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	5.3E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.1E-04
	Xylenes	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	7.5E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.12.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.8E-07
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.0E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	4.8E-09
	(Total)										5.8E-07
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.5E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.8E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.7E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.7E-10
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	9.6E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	9.8E-14	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.6E-12
										Total Risk Across All Exposure Routes/Pathways	2.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.8E-07
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.0E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	4.8E-09
	(Total)										5.8E-07
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	6.5E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.8E-09
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.7E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.7E-10
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	1.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	9.6E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	9.8E-14	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.6E-12
										Total Risk Across All Exposure Routes/Pathways	2.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.8E-06	mg/m^3	4.8E-06	mg/m^3	M	4.5E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.5E-09
	Xylenes	6.8E-06	mg/m^3	6.8E-06	mg/m^3	M	6.3E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.4E-06
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.8E-08
	(Total)										3.4E-06
Dermal	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	8.9E+00	mg/kg	M	4.4E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.6E-08
	Cadmium	6.9E+00	mg/kg	6.9E+00	mg/kg	M	1.1E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.2E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	1.9E-09
	(Total)										6.8E-08
										Total Risk Across All Exposure Routes/Pathways	3.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.9E+00	mg/kg	1.3E-08	mg/m^3	R	4.2E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.1E-09
	Cadmium	6.9E+00	mg/kg	1.0E-08	mg/m^3	R	3.3E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.9E-09
	Pesticides/PCBs										
	Dieldrin	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	3.3E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	5.3E-12
										Total Risk Across All Exposure Routes/Pathways	1.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.12.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	3.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.6E-08
	Xylenes	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	5.0E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.12.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-40
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	5.8E-07	--	9.8E-09	5.9E-07	Arsenic	Skin	1.4E-02	--	2.3E-04	1.4E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.8E-06	3.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	4.8E-09	--	2.7E-10	5.1E-09	Dieldrin	Liver	6.4E-05	--	3.6E-06	6.8E-05
			(Total)	5.8E-07	--	1.0E-08	5.9E-07	(Total)		1.7E-02	--	2.4E-04	1.7E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.5E-09	--	1.5E-09	Arsenic	Developmental	--	1.5E-04	--	1.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.6E-12	--	1.6E-12	Dieldrin	--	--	--	--	--
			(Total)	--	2.9E-09	--	2.9E-09	(Total)		--	3.3E-04	--	3.3E-04
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	5.8E-07	--	9.8E-09	5.9E-07	Arsenic	Skin	1.4E-02	--	2.3E-04	1.4E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.8E-06	3.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	4.8E-09	--	2.7E-10	5.1E-09	Dieldrin	Liver	6.4E-05	--	3.6E-06	6.8E-05
			(Total)	5.8E-07	--	1.0E-08	5.9E-07	(Total)		1.7E-02	--	2.4E-04	1.7E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.5E-09	--	1.5E-09	Arsenic	Developmental	--	1.5E-04	--	1.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.6E-12	--	1.6E-12	Dieldrin	--	--	--	--	--
			(Total)	--	2.9E-09	--	2.9E-09	(Total)		--	3.3E-04	--	3.3E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.5E-09	--	4.5E-09	Benzene	Blood	--	2.8E-05	--	2.8E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.3E-06	--	3.3E-06
			(Total)	--	4.5E-09	--	4.5E-09	(Total)		--	3.1E-05	--	3.1E-05

Total Risk Across Surface Soil =	5.9E-07	Total Hazard Index Across Surface Soil =	1.7E-02
Total Risk Across Shallow Soil (0-15' bgs) =	5.9E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.5E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.1E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.12.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-40
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.4E-06	--	6.6E-08	3.4E-06	Arsenic	Skin	1.9E-01	--	4.6E-03	1.9E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	4.4E-02	--	3.5E-05	4.4E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	2.8E-08	--	1.9E-09	3.0E-08	Dieldrin	Liver	8.9E-04	--	7.2E-05	9.7E-04
			(Total)	3.4E-06	--	6.8E-08	3.4E-06	(Total)		2.3E-01	--	4.7E-03	2.4E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	5.1E-09	--	5.1E-09	Arsenic	Developmental	--	7.4E-04	--	7.4E-04
			Cadmium	--	4.9E-09	--	4.9E-09	Cadmium	Kidney	--	8.5E-04	--	8.5E-04
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	5.3E-12	--	5.3E-12	Dieldrin	--	--	--	--	--
			(Total)	--	1.0E-08	--	1.0E-08	(Total)		--	1.6E-03	--	1.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.6E-08	--	3.6E-08	Benzene	Blood	--	3.1E-04	--	3.1E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.7E-05	--	3.7E-05
			(Total)	--	3.6E-08	--	3.6E-08	(Total)		--	3.5E-04	--	3.5E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.5E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.4E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.6E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.5E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-45	**EAPC No.:** 13

CT Exposure Scenario

TABLE 7.13.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	8.2E+00	mg/kg	8.2E+00	mg/kg	M	3.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.7E-03
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	3.6E-09	mg/kg-day	5.0E-05	mg/kg-day	7.1E-05
	(Total)										1.7E-02
Dermal	**Inorganics**										
	Arsenic	8.2E+00	mg/kg	8.2E+00	mg/kg	M	6.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.1E-04
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-06	mg/kg-day	1.4E-01	mg/kg-day	9.5E-06
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	2.0E-10	mg/kg-day	5.0E-05	mg/kg-day	4.0E-06
	(Total)										2.3E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.8E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	8.2E+00	mg/kg	1.2E-08	mg/m^3	R	1.2E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.4E-04
	Cadmium	7.0E+00	mg/kg	1.1E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	7.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.3E-03
	Pesticides/PCBs												
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	1.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	4.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.8E-06	mg/kg-day	1.0E-03	mg/kg-day	2.8E-03
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.4E-04	mg/kg-day	1.4E-01	mg/kg-day	1.7E-03
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	3.6E-09	mg/kg-day	5.0E-05	mg/kg-day	7.1E-05
	(Total)										1.9E-02
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	7.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.6E-09	mg/kg-day	1.0E-03	mg/kg-day	1.6E-06
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-06	mg/kg-day	1.4E-01	mg/kg-day	9.5E-06
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	2.0E-10	mg/kg-day	5.0E-05	mg/kg-day	4.0E-06
	(Total)										2.6E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.13.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	1.4E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.7E-04
	Cadmium	6.1E+00	mg/kg	9.1E-09	mg/m^3	R	9.0E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.6E-04
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	7.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.3E-03
	Pesticides/PCBs												
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	1.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.2E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.9E-05
	Benzene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	4.2E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-05
	Tetrachloroethene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.1E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	6.1E-05	mg/kg-day	3.0E-04	mg/kg-day	2.0E-01
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	3.9E-05	mg/kg-day	1.0E-03	mg/kg-day	3.9E-02
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	3.3E-03	mg/kg-day	1.4E-01	mg/kg-day	2.4E-02
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	5.0E-08	mg/kg-day	5.0E-05	mg/kg-day	1.0E-03
	(Total)										2.7E-01
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	3.1E-08	mg/kg-day	1.0E-03	mg/kg-day	3.1E-05
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.6E-05	mg/kg-day	1.4E-01	mg/kg-day	1.9E-04
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	4.0E-09	mg/kg-day	5.0E-05	mg/kg-day	8.0E-05
	(Total)										5.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways	2.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.13.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	6.8E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	7.9E-04
	Cadmium	6.1E+00	mg/kg	9.1E-09	mg/m^3	R	4.3E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	7.5E-04
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	3.7E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	6.4E-03
	Pesticides/PCBs												
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	5.5E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	8.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.13.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	1.3E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	7.8E-04
	Benzene	9.9E-06	mg/m^3	9.9E-06	mg/m^3	M	4.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-04
	Tetrachloroethene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.13.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	8.2E+00	mg/kg	8.2E+00	mg/kg	M	3.5E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.3E-07
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	3.4E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.4E-09
	(Total)										5.4E-07
Dermal	**Inorganics**										
	Arsenic	8.2E+00	mg/kg	8.2E+00	mg/kg	M	6.0E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	9.0E-09
	Cadmium	7.0E+00	mg/kg	7.0E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	1.9E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.0E-10
	(Total)										9.3E-09
										Total Risk Across All Exposure Routes/Pathways	5.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	8.2E+00	mg/kg	1.2E-08	mg/m^3	R	1.1E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Cadmium	7.0E+00	mg/kg	1.1E-08	mg/m^3	R	9.8E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	7.2E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	1.1E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.7E-12
										Total Risk Across All Exposure Routes/Pathways	2.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	4.1E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	6.2E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	2.2E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	3.4E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	5.4E-09
	(Total)										6.2E-07
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	7.0E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.0E-08
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.5E-10	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	1.9E-11	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.0E-10
	(Total)										1.1E-08
										Total Risk Across All Exposure Routes/Pathways	6.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	1.3E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.6E-09
	Cadmium	6.1E+00	mg/kg	9.1E-09	mg/m^3	R	8.5E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.3E-09
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	7.2E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	1.1E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	1.7E-12
										Total Risk Across All Exposure Routes/Pathways	2.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.1E-08	mg/kg-day	--	--	--
	Benzene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	4.0E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.0E-09
	Tetrachloroethene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.0E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.1E-10
										Total Risk Across All Exposure Routes/Pathways	4.2E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	2.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	3.6E-06
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.5E-06	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	1.3E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	2.0E-09	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	3.1E-08
	(Total)										3.6E-06
Dermal	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	9.5E+00	mg/kg	M	4.7E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	7.1E-08
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.0E-09	mg/kg-day	--	--	--
	Manganese	5.2E+02	mg/kg	5.2E+02	mg/kg	M	8.6E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	7.8E-03	mg/kg	M	1.3E-10	mg/kg-day	1.6E+01	mg/kg-day $^{-1}$	2.1E-09
	(Total)										7.3E-08
										Total Risk Across All Exposure Routes/Pathways	3.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	9.5E+00	mg/kg	1.4E-08	mg/m^3	R	4.5E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.4E-09
	Cadmium	6.1E+00	mg/kg	9.1E-09	mg/m^3	R	2.9E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.3E-09
	Manganese	5.2E+02	mg/kg	7.8E-07	mg/m^3	R	2.5E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	Dieldrin	7.8E-03	mg/kg	1.2E-11	mg/m^3	R	3.7E-13	mg/kg-day	1.6E+01	$mg/kg\text{-}day^{-1}$	5.9E-12
										Total Risk Across All Exposure Routes/Pathways	9.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.13.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	8.9E-08	mg/kg-day	--	--	--
	Benzene	9.9E-06	mg/m^3	9.9E-06	mg/m^3	M	3.1E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.1E-08
	Tetrachloroethene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	8.1E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.7E-09
										Total Risk Across All Exposure Routes/Pathways	3.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.13.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-45
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	5.3E-07	--	9.0E-09	5.4E-07	Arsenic	Skin	1.3E-02	--	2.1E-04	1.3E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.2E-03	--	1.8E-06	3.2E-03
			Manganese	--	--	--	--	Manganese	CNS	1.7E-03	--	9.5E-06	1.7E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.4E-09	--	3.0E-10	5.7E-09	Dieldrin	Liver	7.1E-05	--	4.0E-06	7.5E-05
			(Total)	5.4E-07	--	9.3E-09	5.5E-07	(Total)		1.7E-02	--	2.3E-04	1.8E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.4E-09	--	1.4E-09	Arsenic	Developmental	--	1.4E-04	--	1.4E-04
			Cadmium	--	1.5E-09	--	1.5E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.3E-03	--	1.3E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.7E-12	--	1.7E-12	Dieldrin	--	--	--	--	--
			(Total)	--	2.8E-09	--	2.8E-09	(Total)		--	1.7E-03	--	1.7E-03
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	6.2E-07	--	1.0E-08	6.3E-07	Arsenic	Skin	1.5E-02	--	2.5E-04	1.5E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	2.8E-03	--	1.6E-06	2.8E-03
			Manganese	--	--	--	--	Manganese	CNS	1.7E-03	--	9.5E-06	1.7E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	5.4E-09	--	3.0E-10	5.7E-09	Dieldrin	Liver	7.1E-05	--	4.0E-06	7.5E-05
			(Total)	6.2E-07	--	1.1E-08	6.3E-07	(Total)		1.9E-02	--	2.6E-04	1.9E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	1.6E-09	--	1.6E-09	Arsenic	Developmental	--	1.7E-04	--	1.7E-04
			Cadmium	--	1.3E-09	--	1.3E-09	Cadmium	Kidney	--	1.6E-04	--	1.6E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.3E-03	--	1.3E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	1.7E-12	--	1.7E-12	Dieldrin	--	--	--	--	--
			(Total)	--	2.9E-09	--	2.9E-09	(Total)		--	1.7E-03	--	1.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.9E-05	--	6.9E-05
			Benzene	--	4.0E-09	--	4.0E-09	Benzene	Blood	--	2.4E-05	--	2.4E-05
			Tetrachloroethene	--	2.1E-10	--	2.1E-10	Tetrachloroethene	Liver/Kidney	--	1.1E-05	--	1.1E-05
			(Total)	--	4.2E-09	--	4.2E-09	(Total)		--	1.0E-04	--	1.0E-04

Total Risk Across Surface Soil =	5.5E-07	Total Hazard Index Across Surface Soil =	1.9E-02
Total Risk Across Shallow Soil (0-15' bgs) =	6.4E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.1E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.2E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.0E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.13.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	3.6E-06	--	7.1E-08	3.7E-06	Arsenic	Skin	2.0E-01	--	4.9E-03	2.1E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	3.9E-02	--	3.1E-05	3.9E-02
			Manganese	--	--	--	--	Manganese	CNS	2.4E-02	--	1.9E-04	2.4E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	3.1E-08	--	2.1E-09	3.3E-08	Dieldrin	Liver	1.0E-03	--	8.0E-05	1.1E-03
			(Total)	3.6E-06	--	7.3E-08	3.7E-06	(Total)		2.7E-01	--	5.2E-03	2.7E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	5.4E-09	--	5.4E-09	Arsenic	Developmental	--	7.9E-04	--	7.9E-04
			Cadmium	--	4.3E-09	--	4.3E-09	Cadmium	Kidney	--	7.5E-04	--	7.5E-04
			Manganese	--	--	--	--	Manganese	CNS	--	6.4E-03	--	6.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			Dieldrin	--	5.9E-12	--	5.9E-12	Dieldrin	--	--	--	--	--
			(Total)	--	9.8E-09	--	9.8E-09	(Total)		--	8.0E-03	--	8.0E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	7.8E-04	--	7.8E-04
			Benzene	--	3.1E-08	--	3.1E-08	Benzene	Blood	--	2.7E-04	--	2.7E-04
			Tetrachloroethene	--	1.7E-09	--	1.7E-09	Tetrachloroethene	Liver/Kidney	--	1.2E-04	--	1.2E-04
			(Total)	--	3.3E-08	--	3.3E-08	(Total)		--	1.2E-03	--	1.2E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.7E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.8E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.3E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-9	**EAPC No.:** 14

CT Exposure Scenario

TABLE 7.14.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	4.1E-03	mg/kg-day	4.0E-02	mg/kg-day	1.0E-01
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	9.9E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-02
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	2.3E-05	mg/kg-day	7.0E-03	mg/kg-day	3.2E-03
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	1.2E-09	mg/kg-day	--	--	--
	(Total)										1.2E-01
Dermal	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	2.3E-05	mg/kg-day	4.0E-02	mg/kg-day	5.7E-04
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.6E-09	mg/kg-day	8.0E-05	mg/kg-day	7.0E-05
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.3E-07	mg/kg-day	7.0E-03	mg/kg-day	1.8E-05
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	8.9E-11	mg/kg-day	--	--	--
	(Total)										6.6E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.14.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Copper	8.9E+03	mg/kg	1.3E-05	mg/m^3	R	1.3E-06	mg/kg-day	--	--	--	--	--
	Thallium	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	3.2E-10	mg/kg-day	--	--	--	--	--
	Vanadium	5.0E+01	mg/kg	7.4E-08	mg/m^3	R	7.4E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	2.7E-03	mg/kg	4.0E-12	mg/m^3	R	4.0E-13	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.0E-06	mg/m^3	3.0E-06	mg/m^3	M	3.0E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.7E-04
	1,3,5-Trimethylbenzene	7.6E-08	mg/m^3	7.6E-08	mg/m^3	M	7.5E-09	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.4E-06
	Acetonitrile	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	1.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.4E-04
	Benzene	4.1E-06	mg/m^3	4.1E-06	mg/m^3	M	4.1E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-05
	Chloroform	3.1E-07	mg/m^3	3.1E-07	mg/m^3	M	3.1E-08	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.6E-07
	Chloromethane	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	1.4E-07	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	5.3E-06
	Methylene Chloride	2.3E-07	mg/m^3	2.3E-07	mg/m^3	M	2.3E-08	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.0E-07
	Tetrachloroethene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-05
	Trichloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
	Xylenes	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	5.1E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	5.7E-02	mg/kg-day	4.0E-02	mg/kg-day	1.4E+00
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.4E-05	mg/kg-day	8.0E-05	mg/kg-day	1.7E-01
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	3.2E-04	mg/kg-day	7.0E-03	mg/kg-day	4.5E-02
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	(Total)										1.6E+00
Dermal	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	4.5E-04	mg/kg-day	4.0E-02	mg/kg-day	1.1E-02
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.1E-07	mg/kg-day	8.0E-05	mg/kg-day	1.4E-03
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	2.5E-06	mg/kg-day	7.0E-03	mg/kg-day	3.6E-04
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	1.8E-09	mg/kg-day	--	--	--
	(Total)										1.3E-02
										Total Hazard Index Across All Exposure Routes/Pathways	1.7E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.14.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Copper	8.9E+03	mg/kg	1.3E-05	mg/m^3	R	6.3E-06	mg/kg-day	--	--	--	--	--
	Thallium	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.5E-09	mg/kg-day	--	--	--	--	--
	Vanadium	5.0E+01	mg/kg	7.4E-08	mg/m^3	R	3.5E-08	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	2.7E-03	mg/kg	4.0E-12	mg/m^3	R	1.9E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.14.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	3.4E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.0E-03
	1,3,5-Trimethylbenzene	1.8E-07	mg/m^3	1.8E-07	mg/m^3	M	8.4E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	4.9E-05
	Acetonitrile	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	1.6E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.4E-03
	Benzene	9.7E-06	mg/m^3	9.7E-06	mg/m^3	M	4.6E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.7E-04
	Chloroform	7.2E-07	mg/m^3	7.2E-07	mg/m^3	M	3.4E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.0E-06
	Chloromethane	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	1.5E-06	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	6.0E-05
	Methylene Chloride	5.4E-07	mg/m^3	5.4E-07	mg/m^3	M	2.6E-07	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.2E-06
	Tetrachloroethene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	1.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.3E-04
	Trichloroethene	5.1E-05	mg/m^3	5.1E-05	mg/m^3	M	2.4E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.4E-04
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	5.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.14.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	3.8E-04	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	9.4E-08	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	1.1E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	(Total)										1.4E-09
Dermal	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.3E-10	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	8.4E-12	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.0E-10
	(Total)										1.0E-10
										Total Risk Across All Exposure Routes/Pathways	1.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Copper	8.9E+03	mg/kg	1.3E-05	mg/m^3	R	1.2E-07	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	3.0E-11	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	7.4E-08	mg/m^3	R	6.9E-10	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	4.0E-12	mg/m^3	R	3.7E-14	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.5E-13
										Total Risk Across All Exposure Routes/Pathways	1.5E-13

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.0E-06	mg/m^3	3.0E-06	mg/m^3	M	2.8E-08	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	7.6E-08	mg/m^3	7.6E-08	mg/m^3	M	7.1E-10	mg/kg-day	--	--	--
	Acetonitrile	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	1.4E-06	mg/kg-day	--	--	--
	Benzene	4.1E-06	mg/m^3	4.1E-06	mg/m^3	M	3.8E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.8E-09
	Chloroform	3.1E-07	mg/m^3	3.1E-07	mg/m^3	M	2.9E-09	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	5.5E-11
	Chloromethane	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	1.3E-08	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	8.1E-11
	Methylene Chloride	2.3E-07	mg/m^3	2.3E-07	mg/m^3	M	2.2E-09	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	7.5E-12
	Tetrachloroethene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.1E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-10
	Trichloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	2.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.4E-09
	Xylenes	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	4.8E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.6E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	2.2E-03	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.4E-07	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	1.2E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	6.7E-10	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	8.0E-09
	(Total)										8.0E-09
Dermal	**Inorganics**										
	Copper	8.9E+03	mg/kg	8.9E+03	mg/kg	M	1.5E-05	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.6E-09	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	5.0E+01	mg/kg	M	8.2E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	2.7E-03	mg/kg	M	5.7E-11	mg/kg-day	1.2E+01	mg/kg-day $^{-1}$	6.9E-10
	(Total)										6.9E-10
										Total Risk Across All Exposure Routes/Pathways	8.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Copper	8.9E+03	mg/kg	1.3E-05	mg/m^3	R	4.2E-07	mg/kg-day	--	--	--
	Thallium	2.2E+00	mg/kg	3.3E-09	mg/m^3	R	1.0E-10	mg/kg-day	--	--	--
	Vanadium	5.0E+01	mg/kg	7.4E-08	mg/m^3	R	2.4E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	2.7E-03	mg/kg	4.0E-12	mg/m^3	R	1.3E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.9E-13
										Total Risk Across All Exposure Routes/Pathways	4.9E-13

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.14.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	2.3E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.8E-07	mg/m^3	1.8E-07	mg/m^3	M	5.6E-09	mg/kg-day	--	--	--
	Acetonitrile	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Benzene	9.7E-06	mg/m^3	9.7E-06	mg/m^3	M	3.1E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.1E-08
	Chloroform	7.2E-07	mg/m^3	7.2E-07	mg/m^3	M	2.3E-08	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.4E-10
	Chloromethane	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	1.0E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	6.5E-10
	Methylene Chloride	5.4E-07	mg/m^3	5.4E-07	mg/m^3	M	1.7E-08	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	6.0E-11
	Tetrachloroethene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	8.8E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.8E-09
	Trichloroethene	5.1E-05	mg/m^3	5.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-08
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	3.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.14.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-9
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	GI	1.0E-01	--	5.7E-04	1.0E-01
			Thallium	--	--	--	--	Thallium	NOAEL	1.2E-02	--	7.0E-05	1.2E-02
			Vanadium	--	--	--	--	Vanadium	Liver	3.2E-03	--	1.8E-05	3.3E-03
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	1.4E-09	--	1.0E-10	1.5E-09	Benzo(a)pyrene	--	--	--	--	--
			(Total)	1.4E-09	--	1.0E-10	1.5E-09	(Total)		1.2E-01	--	6.6E-04	1.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	1.5E-13	--	1.5E-13	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	1.5E-13	--	1.5E-13	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.7E-04	--	1.7E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	4.4E-06	--	4.4E-06
			Acetonitrile	--	--	--	--	Acetonitrile	Mortality	--	8.4E-04	--	8.4E-04
			Benzene	--	3.8E-09	--	3.8E-09	Benzene	Blood	--	2.4E-05	--	2.4E-05
			Chloroform	--	5.5E-11	--	5.5E-11	Chloroform	Kidney	--	3.6E-07	--	3.6E-07
			Chloromethane	--	8.1E-11	--	8.1E-11	Chloromethane	CNS	--	5.3E-06	--	5.3E-06
			Methylene Chloride	--	7.5E-12	--	7.5E-12	Methylene Chloride	Liver	--	2.0E-07	--	2.0E-07
			Tetrachloroethene	--	2.3E-10	--	2.3E-10	Tetrachloroethene	Liver/Kidney	--	1.2E-05	--	1.2E-05
			Trichloroethene	--	1.4E-09	--	1.4E-09	Trichloroethene	CNS	--	1.3E-05	--	1.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.6E-06	--	2.6E-06
			(Total)	--	5.6E-09	--	5.6E-09	(Total)		--	1.1E-03	--	1.1E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.5E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.2E-01
Total Risk for Shallow Soil-to-Indoor Air =	5.6E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.14.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-9
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	GI	1.4E+00	--	1.1E-02	1.4E+00
			Thallium	--	--	--	--	Thallium	NOAEL	1.7E-01	--	1.4E-03	1.7E-01
			Vanadium	--	--	--	--	Vanadium	Liver	4.5E-02	--	3.6E-04	4.6E-02
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	8.0E-09	--	6.9E-10	8.7E-09	Benzo(a)pyrene	--	--	--	--	--
			(Total)	8.0E-09	--	6.9E-10	8.7E-09	(Total)		1.6E+00	--	1.3E-02	1.7E+00
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Copper	--	--	--	--	Copper	--	--	--	--	--
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	4.9E-13	--	4.9E-13	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	4.9E-13	--	4.9E-13	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.0E-03	--	2.0E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	4.9E-05	--	4.9E-05
			Acetonitrile	--	--	--	--	Acetonitrile	Mortality	--	9.4E-03	--	9.4E-03
			Benzene	--	3.1E-08	--	3.1E-08	Benzene	Blood	--	2.7E-04	--	2.7E-04
			Chloroform	--	4.4E-10	--	4.4E-10	Chloroform	Kidney	--	4.0E-06	--	4.0E-06
			Chloromethane	--	6.5E-10	--	6.5E-10	Chloromethane	CNS	--	6.0E-05	--	6.0E-05
			Methylene Chloride	--	6.0E-11	--	6.0E-11	Methylene Chloride	Liver	--	2.2E-06	--	2.2E-06
			Tetrachloroethene	--	1.8E-09	--	1.8E-09	Tetrachloroethene	Liver/Kidney	--	1.3E-04	--	1.3E-04
			Trichloroethene	--	1.1E-08	--	1.1E-08	Trichloroethene	CNS	--	1.4E-04	--	1.4E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-05	--	2.9E-05
			(Total)	--	4.5E-08	--	4.5E-08	(Total)		--	1.2E-02	--	1.2E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.7E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.7E+00
Total Risk for Shallow Soil-to-Indoor Air =	4.5E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-900	**EAPC No.:** 15

CT Exposure Scenario

TABLE 7.15.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.3E-06	mg/kg-day	4.0E-03	mg/kg-day	3.2E-04
	(Total)										3.2E-04
Dermal	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	7.2E-08	mg/kg-day	4.0E-03	mg/kg-day	1.8E-05
	(Total)										1.8E-05
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.15.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.8E+00	mg/kg	5.2E-04	mg/m^3	R	5.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.15.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.0E-01
	Ethylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	1.6E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.8E-06
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	2.2E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	8.6E-06
	Toluene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.8E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.2E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	4.9E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E+00
	Toluene	8.3E-04	mg/m^3	8.3E-04	mg/m^3	M	8.2E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.8E-05	mg/kg-day	4.0E-03	mg/kg-day	4.5E-03
	(Total)										4.5E-03
Dermal	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.4E-06	mg/kg-day	4.0E-03	mg/kg-day	3.6E-04
	(Total)										3.6E-04
										Total Hazard Index Across All Exposure Routes/Pathways	4.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.8E+00	mg/kg	4.7E-04	mg/m^3	R	2.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.1E-02	mg/m^3	8.1E-02	mg/m^3	M	3.8E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E+00
	Ethylbenzene	3.8E-05	mg/m^3	3.8E-05	mg/m^3	M	1.8E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-05
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	2.5E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	9.7E-05
	Toluene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	2.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	5.6E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.2E+01
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	9.2E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.15.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.2E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	1.2E-08
	(Total)										1.2E-08
Dermal	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	6.8E-09	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	6.8E-10
	(Total)										6.8E-10
										Total Risk Across All Exposure Routes/Pathways	1.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.8E+00	mg/kg	5.2E-04	mg/m^3	R	4.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.8E-07
										Total Risk Across All Exposure Routes/Pathways	4.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.2E-05
	Ethylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	1.5E-07	mg/kg-day	--	--	--
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	2.1E-09	mg/kg-day	--	--	--
	Toluene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.7E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	4.7E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.7E-04
	Toluene	8.3E-04	mg/m^3	8.3E-04	mg/m^3	M	7.7E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	7.0E-07	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	7.0E-08
	(Total)										7.0E-08
Dermal	**VOCs**										
	Benzene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	4.6E-08	mg/kg-day	1.0E-01	mg/kg-day $^{-1}$	4.6E-09
	(Total)										4.6E-09
										Total Risk Across All Exposure Routes/Pathways	7.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.8E+00	mg/kg	4.7E-04	mg/m^3	R	1.5E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-06
										Total Risk Across All Exposure Routes/Pathways	1.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.1E-02	mg/m^3	8.1E-02	mg/m^3	M	2.6E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.6E-04
	Ethylbenzene	3.8E-05	mg/m^3	3.8E-05	mg/m^3	M	1.2E-06	mg/kg-day	--	--	--
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	1.7E-08	mg/kg-day	--	--	--
	Toluene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	1.4E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	3.7E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.7E-03
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	6.2E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.15.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.2E-08	--	6.8E-10	1.3E-08	Benzene	Blood	3.2E-04	--	1.8E-05	3.4E-04
			(Total)	1.2E-08	--	6.8E-10	1.3E-08	(Total)		3.2E-04	--	1.8E-05	3.4E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	4.8E-07	--	4.8E-07	Benzene	Blood	--	3.0E-03	--	3.0E-03
			(Total)	--	4.8E-07	--	4.8E-07	(Total)		--	3.0E-03	--	3.0E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.2E-05	--	3.2E-05	Benzene	Blood	--	2.0E-01	--	2.0E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.8E-06	--	2.8E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	8.6E-06	--	8.6E-06
			Toluene	--	--	--	--	Toluene	CNS	--	2.2E-05	--	2.2E-05
			(Total)	--	3.2E-05	--	3.2E-05	(Total)		--	2.0E-01	--	2.0E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.7E-04	--	4.7E-04	Benzene	Blood	--	2.9E+00	--	2.9E+00
			Toluene	--	--	--	--	Toluene	CNS	--	9.6E-04	--	9.6E-04
			(Total)	--	4.7E-04	--	4.7E-04	(Total)		--	2.9E+00	--	2.9E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.0E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.3E-03
Total Risk for Shallow Soil-to-Indoor Air =	3.2E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.0E-01
Total Risk for Deep Soil-to-Indoor Air =	4.7E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	2.9E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.15.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	7.0E-08	--	4.6E-09	7.5E-08	Benzene	Blood	4.5E-03	--	3.6E-04	4.8E-03
			(Total)	7.0E-08	--	4.6E-09	7.5E-08	(Total)		4.5E-03	--	3.6E-04	4.8E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.5E-06	--	1.5E-06	Benzene	Blood	--	1.3E-02	--	1.3E-02
			(Total)	--	1.5E-06	--	1.5E-06	(Total)		--	1.3E-02	--	1.3E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.6E-04	--	2.6E-04	Benzene	Blood	--	2.2E+00	--	2.2E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-05	--	3.1E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	9.7E-05	--	9.7E-05
			Toluene	--	--	--	--	Toluene	CNS	--	2.4E-04	--	2.4E-04
			(Total)	--	2.6E-04	--	2.6E-04	(Total)		--	2.2E+00	--	2.2E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.7E-03	--	3.7E-03	Benzene	Blood	--	3.2E+01	--	3.2E+01
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-02	--	1.1E-02
			(Total)	--	3.7E-03	--	3.7E-03	(Total)		--	3.2E+01	--	3.2E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.6E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.8E-02
Total Risk for Shallow Soil-to-Indoor Air =	2.6E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.2E+00
Total Risk for Deep Soil-to-Indoor Air =	3.7E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	3.2E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-15, -50, -56	**EAPC No.:** 16

CT Exposure Scenario

TABLE 7.16.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.9E-04	mg/kg-day	1.4E-01	mg/kg-day	1.3E-03
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	4.6E-08	mg/kg-day	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	2.4E-07	mg/kg-day	5.0E-04	mg/kg-day	4.8E-04
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.8E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.6E-03
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	1.1E-06	mg/kg-day	4.0E-03	mg/kg-day	2.7E-04
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.4E-05	mg/kg-day	1.0E-01	mg/kg-day	7.4E-04
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	6.7E-05	mg/kg-day	2.0E-01	mg/kg-day	3.4E-04
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.1E-06	mg/kg-day	1.0E-02	mg/kg-day	1.1E-04
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.2E-06	mg/kg-day	6.0E-03	mg/kg-day	1.9E-04
	(Total)										9.8E-03

TABLE 7.16.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	2.7E-09	mg/kg-day	1.0E-03	mg/kg-day	2.7E-06
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.1E-06	mg/kg-day	1.4E-01	mg/kg-day	7.5E-06
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	7.7E-10	mg/kg-day	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	6.9E-10	mg/kg-day	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	4.0E-09	mg/kg-day	5.0E-04	mg/kg-day	8.0E-06
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	1.1E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	9.5E-08	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	9.1E-05
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	6.2E-08	mg/kg-day	4.0E-03	mg/kg-day	1.5E-05
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	4.2E-06	mg/kg-day	1.0E-01	mg/kg-day	4.2E-05
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	3.8E-06	mg/kg-day	2.0E-01	mg/kg-day	1.9E-05
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.3E-08	mg/kg-day	1.0E-02	mg/kg-day	6.3E-06
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.6E-08	mg/kg-day	6.0E-03	mg/kg-day	1.1E-05
	(Total)										2.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	1.5E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.7E-04
	Manganese	4.1E+02	mg/kg	6.1E-07	mg/m^3	R	6.1E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.1E-03
	Pesticides/PCBs												
	4,4'-DDD	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	1.5E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	7.7E-11	mg/kg-day	--	--	--	--	--
	Aroclor 1260	3.0E-02	mg/kg	4.5E-11	mg/m^3	R	4.5E-12	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	1.5E+00	mg/kg	2.2E-09	mg/m^3	R	2.2E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	4.2E-10	mg/kg-day	--	--	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	1.0E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	2.4E+00	mg/kg	4.4E-04	mg/m^3	R	4.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-03
	Ethylbenzene	1.6E+02	mg/kg	1.5E-02	mg/m^3	R	1.5E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.7E-03
	Styrene	1.5E+02	mg/kg	5.6E-03	mg/m^3	R	5.5E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.2E-03
	Tetrachloroethene	2.5E+00	mg/kg	5.0E-04	mg/m^3	R	4.9E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.9E-03
	Trichloroethene	2.5E+00	mg/kg	4.0E-04	mg/m^3	R	3.9E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	3.0E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.7E-02
	1,3,5-Trimethylbenzene	4.1E-05	mg/m^3	4.1E-05	mg/m^3	M	4.1E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.4E-03
	4-Ethyl Toluene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.4E-04
	Acetone	7.6E-02	mg/m^3	7.6E-02	mg/m^3	M	7.5E-03	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	8.4E-03
	Benzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	2.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E-01
	Chloroform	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	4.2E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.9E-02
	Ethylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	4.9E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.5E-02
	Naphthalene	7.9E-07	mg/m^3	7.9E-07	mg/m^3	M	7.8E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.0E-05
	Styrene	7.2E-02	mg/m^3	7.2E-02	mg/m^3	M	7.1E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.8E-02
	Tetrachloroethene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	3.5E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.5E-01
	Toluene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.4E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.6E-02
	Trichloroethene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.2E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-02
	Xylenes	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	2.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	7.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	1.8E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	6.2E-05
	1,1-Dichloroethene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	4.9E-05	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	2.5E-03
	Benzene	7.1E-03	mg/m^3	7.1E-03	mg/m^3	M	7.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.1E-02
	Ethylbenzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	1.7E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.0E-05
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-03
	Trichloroethene	8.1E-05	mg/m^3	8.1E-05	mg/m^3	M	8.0E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.3E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.6E-03
	Benzene	4.6E-03	mg/m^3	4.6E-03	mg/m^3	M	4.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-02
	Chlorobenzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.0E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.6E-04
	Cyclohexane	7.6E-03	mg/m^3	7.6E-03	mg/m^3	M	7.5E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.4E-04
	Ethylbenzene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	6.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.2E-03
	Methyl ethyl ketone	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.3E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	3.7E-04
	Methylene Chloride	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.9E-03
	Styrene	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	4.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.9E-03
	Tetrachloroethene	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	3.7E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.7E-02
	Toluene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.3E-02
	Trichloroethene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	8.6E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.0E-03
	Xylenes	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	6.6E-05	mg/kg-day	1.0E-03	mg/kg-day	6.6E-02
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.6E-03	mg/kg-day	1.4E-01	mg/kg-day	1.9E-02
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	6.4E-07	mg/kg-day	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	5.7E-07	mg/kg-day	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	3.3E-06	mg/kg-day	5.0E-04	mg/kg-day	6.6E-03
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	9.5E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	4.5E-04	mg/kg-day	2.0E-02	mg/kg-day	2.3E-02
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	1.5E-05	mg/kg-day	4.0E-03	mg/kg-day	3.8E-03
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.0E-03	mg/kg-day	1.0E-01	mg/kg-day	1.0E-02
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	9.4E-04	mg/kg-day	2.0E-01	mg/kg-day	4.7E-03
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.6E-05	mg/kg-day	1.0E-02	mg/kg-day	1.6E-03
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.6E-05	mg/kg-day	6.0E-03	mg/kg-day	2.7E-03
	(Total)										1.4E-01

TABLE 7.16.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	5.3E-08	mg/kg-day	1.0E-03	mg/kg-day	5.3E-05
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.1E-05	mg/kg-day	1.4E-01	mg/kg-day	1.5E-04
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	8.0E-08	mg/kg-day	5.0E-04	mg/kg-day	1.6E-04
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	9.9E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.9E-06	mg/kg-day	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.8E-03
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	1.2E-06	mg/kg-day	4.0E-03	mg/kg-day	3.1E-04
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	8.3E-05	mg/kg-day	1.0E-01	mg/kg-day	8.3E-04
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	7.5E-05	mg/kg-day	2.0E-01	mg/kg-day	3.8E-04
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.3E-06	mg/kg-day	1.0E-02	mg/kg-day	1.3E-04
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.3E-06	mg/kg-day	6.0E-03	mg/kg-day	2.2E-04
	(Total)										4.0E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	7.3E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.3E-03
	Manganese	4.1E+02	mg/kg	6.1E-07	mg/m^3	R	2.9E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	5.1E-03
	Pesticides/PCBs												
	4,4'-DDD	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	7.1E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDE	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	6.4E-11	mg/kg-day	--	--	--	--	--
	4,4'-DDT	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	3.7E-10	mg/kg-day	--	--	--	--	--
	Aroclor 1260	3.0E-02	mg/kg	4.5E-11	mg/m^3	R	2.1E-11	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)pyrene	1.5E+00	mg/kg	2.2E-09	mg/m^3	R	1.1E-09	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	2.0E-09	mg/kg-day	--	--	--	--	--
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	5.0E-08	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	2.4E+00	mg/kg	4.1E-04	mg/m^3	R	1.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-02
	Ethylbenzene	1.6E+02	mg/kg	1.4E-02	mg/m^3	R	6.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.2E-02
	Styrene	1.5E+02	mg/kg	5.1E-03	mg/m^3	R	2.4E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.4E-03
	Tetrachloroethene	2.5E+00	mg/kg	4.5E-04	mg/m^3	R	2.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.1E-02
	Trichloroethene	2.5E+00	mg/kg	3.6E-04	mg/m^3	R	1.7E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	6.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	3.3E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.0E-01
	1,3,5-Trimethylbenzene	9.7E-05	mg/m^3	9.7E-05	mg/m^3	M	4.6E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.7E-02
	4-Ethyl Toluene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	1.4E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.2E-03
	Acetone	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	8.4E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	9.4E-02
	Benzene	6.9E-02	mg/m^3	6.9E-02	mg/m^3	M	3.3E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E+00
	Chloroform	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	4.7E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.5E-01
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	5.5E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	9.6E-01
	Naphthalene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	8.7E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.4E-04
	Styrene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	8.0E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.1E-01
	Tetrachloroethene	8.4E-02	mg/m^3	8.4E-02	mg/m^3	M	4.0E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.0E+00
	Toluene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	1.6E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-01
	Trichloroethene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	2.5E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.5E-01
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	2.5E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	8.5E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	4.2E-04	mg/m^3	4.2E-04	mg/m^3	M	2.0E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	7.0E-04
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	5.5E-04	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	2.8E-02
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	7.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.6E-01
	Ethylbenzene	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	1.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.4E-04
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E-02
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	9.0E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	4.4E-07	mg/kg-day	--	--	--
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	4.3E-09	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.0E-09
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	3.9E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.3E-09
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	2.2E-08	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	7.6E-09
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	1.3E-09	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	6.5E-09
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.4E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.7E-07
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	1.2E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.0E-07
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.0E-06	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-08
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	1.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-08
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.0E-06	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	6.3E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.1E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	5.7E-08
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	1.1E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.4E-09
	(Total)										1.4E-06

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	2.5E-10	mg/kg-day	--	--	--
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	9.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	7.3E-11	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.7E-11
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	6.5E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.2E-11
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	3.8E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.3E-10
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	1.0E-10	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	5.1E-10
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	4.7E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.7E-08
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	9.0E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.7E-08
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.7E-07	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	1.5E-09
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	5.8E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.8E-10
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.9E-07	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	3.6E-07	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.0E-09	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	3.2E-09
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.2E-09	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	8.0E-11
	(Total)										9.9E-08
										Total Risk Across All Exposure Routes/Pathways	1.5E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	1.4E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.2E-09
	Manganese	4.1E+02	mg/kg	6.1E-07	mg/m^3	R	5.7E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	1.4E-12	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	3.3E-13
	4,4'-DDE	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	1.3E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.3E-13
	4,4'-DDT	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	7.3E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.5E-12
	Aroclor 1260	3.0E-02	mg/kg	4.5E-11	mg/m^3	R	4.2E-13	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	8.4E-13
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	2.2E-09	mg/m^3	R	2.1E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.1E-11
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	4.0E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-10
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	9.9E-10	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	8.9E-12
	VOCs										
	Benzene	2.4E+00	mg/kg	4.4E-04	mg/m^3	R	4.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.1E-07
	Ethylbenzene	1.6E+02	mg/kg	1.5E-02	mg/m^3	R	1.4E-04	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	5.6E-03	mg/m^3	R	5.2E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	5.0E-04	mg/m^3	R	4.6E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	9.7E-08
	Trichloroethene	2.5E+00	mg/kg	4.0E-04	mg/m^3	R	3.7E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.6E-08
										Total Risk Across All Exposure Routes/Pathways	5.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	2.8E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	4.1E-05	mg/m^3	4.1E-05	mg/m^3	M	3.9E-07	mg/kg-day	--	--	--
	4-Ethyl Toluene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.2E-05	mg/kg-day	--	--	--
	Acetone	7.6E-02	mg/m^3	7.6E-02	mg/m^3	M	7.1E-04	mg/kg-day	--	--	--
	Benzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	2.7E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-05
	Chloroform	4.2E-02	mg/m^3	4.2E-02	mg/m^3	M	4.0E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	7.5E-06
	Ethylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	4.6E-03	mg/kg-day	--	--	--
	Naphthalene	7.9E-07	mg/m^3	7.9E-07	mg/m^3	M	7.3E-09	mg/kg-day	--	--	--
	Styrene	7.2E-02	mg/m^3	7.2E-02	mg/m^3	M	6.7E-04	mg/kg-day	--	--	--
	Tetrachloroethene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	3.3E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.0E-06
	Toluene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	--	--	--
	Trichloroethene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.1E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.5E-06
	Xylenes	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	1.7E-06	mg/kg-day	--	--	--
	1,1-Dichloroethene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	4.6E-06	mg/kg-day	--	--	--
	Benzene	7.1E-03	mg/m^3	7.1E-03	mg/m^3	M	6.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.6E-06
	Ethylbenzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	1.6E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.1E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-08
	Trichloroethene	8.1E-05	mg/m^3	8.1E-05	mg/m^3	M	7.5E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.3E-09
										Total Risk Across All Exposure Routes/Pathways	6.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Benzene	4.6E-03	mg/m^3	4.6E-03	mg/m^3	M	4.3E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.3E-06
	Chlorobenzene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	9.6E-06	mg/kg-day	--	--	--
	Cyclohexane	7.6E-03	mg/m^3	7.6E-03	mg/m^3	M	7.1E-05	mg/kg-day	--	--	--
	Ethylbenzene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	6.5E-05	mg/kg-day	--	--	--
	Methyl ethyl ketone	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.0E-05	mg/kg-day	--	--	--
	Methylene Chloride	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.2E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.1E-07
	Styrene	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	4.6E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	3.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.4E-07
	Toluene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
	Trichloroethene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	8.1E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.7E-07
	Xylenes	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.0E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	2.5E-08	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	6.0E-09
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	2.3E-08	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	7.7E-09
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	1.3E-07	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.4E-08
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	7.6E-09	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	3.8E-08
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.7E-07	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.5E-06
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	7.1E-07	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.9E-06
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.8E-05	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	1.6E-07
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	6.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.0E-08
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	4.1E-05	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	3.7E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.2E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	3.3E-07
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	6.4E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	8.3E-09
	(Total)										8.1E-06

TABLE 8.16.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.0E+01	mg/kg	M	1.7E-09	mg/kg-day	--	--	--
	Manganese	4.1E+02	mg/kg	4.1E+02	mg/kg	M	6.8E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.0E-01	mg/kg	M	5.0E-10	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.2E-10
	4,4'-DDE	9.0E-02	mg/kg	9.0E-02	mg/kg	M	4.5E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.5E-10
	4,4'-DDT	5.2E-01	mg/kg	5.2E-01	mg/kg	M	2.6E-09	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	8.8E-10
	Aroclor 1260	3.0E-02	mg/kg	3.0E-02	mg/kg	M	7.0E-10	mg/kg-day	5.0E+00	$mg/kg\text{-}day^{-1}$	3.5E-09
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.2E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.9E-07
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	2.8E+00	mg/kg	M	6.1E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.5E-07
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.2E-06	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-08
	VOCs										
	Benzene	2.4E+00	mg/kg	2.4E+00	mg/kg	M	4.0E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.0E-09
	Ethylbenzene	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.7E-06	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	1.5E+02	mg/kg	M	2.4E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	4.1E-08	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	2.2E-08
	Trichloroethene	2.5E+00	mg/kg	2.5E+00	mg/kg	M	4.2E-08	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	5.5E-10
	(Total)										6.8E-07
										Total Risk Across All Exposure Routes/Pathways	8.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.0E+01	mg/kg	1.5E-08	mg/m^3	R	4.9E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	7.3E-09
	Manganese	4.1E+02	mg/kg	6.1E-07	mg/m^3	R	1.9E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	1.0E-01	mg/kg	1.5E-10	mg/m^3	R	4.7E-12	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	1.1E-12
	4,4'-DDE	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	4.3E-12	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-12
	4,4'-DDT	5.2E-01	mg/kg	7.8E-10	mg/m^3	R	2.5E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	8.4E-12
	Aroclor 1260	3.0E-02	mg/kg	4.5E-11	mg/m^3	R	1.4E-12	mg/kg-day	2.0E+00	$mg/kg\text{-}day^{-1}$	2.9E-12
	SVOCs										
	Benzo(a)pyrene	1.5E+00	mg/kg	2.2E-09	mg/m^3	R	7.1E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.8E-10
	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	4.2E-09	mg/m^3	R	1.3E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.5E-10
	N-Nitrosodiphenylamine	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	3.4E-09	mg/kg-day	9.0E-03	$mg/kg\text{-}day^{-1}$	3.0E-11
	VOCs										
	Benzene	2.4E+00	mg/kg	4.1E-04	mg/m^3	R	1.3E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-06
	Ethylbenzene	1.6E+02	mg/kg	1.4E-02	mg/m^3	R	4.5E-04	mg/kg-day	--	--	--
	Styrene	1.5E+02	mg/kg	5.1E-03	mg/m^3	R	1.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E+00	mg/kg	4.5E-04	mg/m^3	R	1.4E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.0E-07
	Trichloroethene	2.5E+00	mg/kg	3.6E-04	mg/m^3	R	1.1E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.0E-08
										Total Risk Across All Exposure Routes/Pathways	1.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	2.2E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	9.7E-05	mg/m^3	9.7E-05	mg/m^3	M	3.1E-06	mg/kg-day	--	--	--
	4-Ethyl Toluene	3.1E-03	mg/m^3	3.1E-03	mg/m^3	M	9.7E-05	mg/kg-day	--	--	--
	Acetone	1.8E-01	mg/m^3	1.8E-01	mg/m^3	M	5.6E-03	mg/kg-day	--	--	--
	Benzene	6.9E-02	mg/m^3	6.9E-02	mg/m^3	M	2.2E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-04
	Chloroform	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	3.2E-03	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	6.0E-05
	Ethylbenzene	1.2E+00	mg/m^3	1.2E+00	mg/m^3	M	3.7E-02	mg/kg-day	--	--	--
	Naphthalene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	5.8E-08	mg/kg-day	--	--	--
	Styrene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	5.4E-03	mg/kg-day	--	--	--
	Tetrachloroethene	8.4E-02	mg/m^3	8.4E-02	mg/m^3	M	2.7E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.6E-05
	Toluene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	1.0E-03	mg/kg-day	--	--	--
	Trichloroethene	5.3E-02	mg/m^3	5.3E-02	mg/m^3	M	1.7E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-05
	Xylenes	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	1.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	4.2E-04	mg/m^3	4.2E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	3.7E-05	mg/kg-day	--	--	--
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	5.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.3E-05
	Ethylbenzene	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	9.1E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-07
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	6.0E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.2E-08
										Total Risk Across All Exposure Routes/Pathways	5.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.16.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	4.7E-03	--	2.7E-06	4.7E-03
			Manganese	--	--	--	--	Manganese	CNS	1.3E-03	--	7.5E-06	1.3E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	1.0E-09	--	1.7E-11	1.0E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.3E-09	--	2.2E-11	1.3E-09	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	7.6E-09	--	1.3E-10	7.7E-09	4,4'-DDT	Liver	4.8E-04	--	8.0E-06	4.8E-04
			Aroclor 1260	6.5E-09	--	5.1E-10	7.0E-09	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	7.7E-07	--	5.7E-08	8.3E-07	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	5.0E-07	--	3.7E-08	5.4E-07	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine					N-Nitrosodiphenylamine	--	1.6E-03	--	9.1E-05	1.7E-03
			VOCs					**VOCs**					
			Benzene	1.0E-08	--	5.8E-10	1.1E-08	Benzene	Blood	2.7E-04	--	1.5E-05	2.9E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	7.4E-04	--	4.2E-05	7.8E-04
			Styrene	--	--	--	--	Styrene	Blood/Liver	3.4E-04	--	1.9E-05	3.6E-04
			Tetrachloroethene	5.7E-08	--	3.2E-09	6.0E-08	Tetrachloroethene	Liver	1.1E-04	--	6.3E-06	1.2E-04
			Trichloroethene	1.4E-09	--	8.0E-11	1.5E-09	Trichloroethene	Liver	1.9E-04	--	1.1E-05	2.0E-04
			(Total)	1.4E-06	--	9.8E-08	1.5E-06	(Total)		9.8E-03	--	2.0E-04	1.0E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.2E-09	--	2.2E-09	Cadmium	Kidney	--	2.7E-04	--	2.7E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.1E-03	--	1.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	3.3E-13	--	3.3E-13	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	4.3E-13	--	4.3E-13	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.5E-12	--	2.5E-12	4,4'-DDT	--	--	--	--	--
			Aroclor 1260	--	8.4E-13	--	8.4E-13	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	8.1E-11	--	8.1E-11	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.6E-10	--	1.6E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	--	8.9E-12	--	8.9E-12	N-Nitrosodiphenylamine	--	--	--	--	--

TABLE 9.16.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	4.1E-07	--	4.1E-07	Benzene	Blood	--	2.6E-03	--	2.6E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.7E-03	--	2.7E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.2E-03	--	2.2E-03
			Tetrachloroethene	--	9.7E-08	--	9.7E-08	Tetrachloroethene	Liver/Kidney	--	4.9E-03	--	4.9E-03
			Trichloroethene	--	2.6E-08	--	2.6E-08	Trichloroethene	CNS	--	2.3E-04	--	2.3E-04
			(Total)	--	5.4E-07	--	5.4E-07	(Total)		--	1.4E-02	--	1.4E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.7E-02	--	1.7E-02
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.4E-03	--	2.4E-03
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	6.4E-04	--	6.4E-04
			Acetone	--	--	--	--	Acetone	Kidney	--	8.4E-03	--	8.4E-03
			Benzene	--	2.7E-05	--	2.7E-05	Benzene	Blood	--	1.7E-01	--	1.7E-01
			Chloroform	--	7.5E-06	--	7.5E-06	Chloroform	Kidney	--	4.9E-02	--	4.9E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.5E-02	--	8.5E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.0E-05	--	3.0E-05
			Styrene	--	--	--	--	Styrene	CNS	--	2.8E-02	--	2.8E-02
			Tetrachloroethene	--	7.0E-06	--	7.0E-06	Tetrachloroethene	Liver/Kidney	--	3.5E-01	--	3.5E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.6E-02	--	1.6E-02
			Trichloroethene	--	1.5E-06	--	1.5E-06	Trichloroethene	CNS	--	1.3E-02	--	1.3E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-02	--	1.1E-02
			(Total)	--	4.3E-05	--	4.3E-05	(Total)		--	7.5E-01	--	7.5E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	6.2E-05	--	6.2E-05
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	2.5E-03	--	2.5E-03
			Benzene	--	6.6E-06	--	6.6E-06	Benzene	Blood	--	4.1E-02	--	4.1E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.0E-05	--	3.0E-05
			Tetrachloroethene	--	2.4E-08	--	2.4E-08	Tetrachloroethene	Liver/Kidney	--	1.2E-03	--	1.2E-03
			Trichloroethene	--	5.3E-09	--	5.3E-09	Trichloroethene	CNS	--	4.7E-05	--	4.7E-05
			(Total)	--	6.6E-06	--	6.6E-06	(Total)		--	4.5E-02	--	4.5E-02

TABLE 9.16.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	4.6E-03	--	4.6E-03
			Benzene	--	4.3E-06	--	4.3E-06	Benzene	Blood	--	2.6E-02	--	2.6E-02
			Chlorobenzene	--	--	--	--	Chlorobenzene	Kidney	--	3.6E-04	--	3.6E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.4E-04	--	4.4E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.2E-03	--	1.2E-03
			Methyl ethyl ketone	--	--	--	--	Methyl ethyl ketone	Developmental	--	3.7E-04	--	3.7E-04
			Methylene Chloride	--	1.1E-07	--	1.1E-07	Methylene Chloride	Liver	--	2.9E-03	--	2.9E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.9E-03	--	1.9E-03
			Tetrachloroethene	--	7.4E-07	--	7.4E-07	Tetrachloroethene	Liver/Kidney	--	3.7E-02	--	3.7E-02
			Toluene	--	--	--	--	Toluene	CNS	--	3.3E-02	--	3.3E-02
			Trichloroethene	--	5.7E-07	--	5.7E-07	Trichloroethene	CNS	--	5.0E-03	--	5.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.3E-02	--	1.3E-02
			(Total)	--	5.7E-06	--	5.7E-06	(Total)		--	1.3E-01	--	1.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.0E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.4E-02
Total Risk for Shallow Soil-to-Indoor Air =	4.3E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.5E-01
Total Risk for Deep Soil-to-Indoor Air =	6.6E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	4.5E-02
Total Risk for Workplace Indoor Air =	5.7E-06	Total Hazard Index for Workplace Indoor Air =	1.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.16.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	6.6E-02	--	5.3E-05	6.6E-02
			Manganese	--	--	--	--	Manganese	CNS	1.9E-02	--	1.5E-04	1.9E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	6.0E-09	--	1.2E-10	6.1E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	7.7E-09	--	1.5E-10	7.8E-09	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	4.4E-08	--	8.8E-10	4.5E-08	4,4'-DDT	Liver	6.6E-03	--	1.6E-04	6.8E-03
			Aroclor 1260	3.8E-08	--	3.5E-09	4.1E-08	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	4.5E-06	--	3.9E-07	4.9E-06	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.9E-06	--	2.5E-07	3.2E-06	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	1.6E-07	--	1.1E-08	1.7E-07	N-Nitrosodiphenylamine	--	2.3E-02	--	1.8E-03	2.4E-02
			VOCs					**VOCs**					
			Benzene	6.0E-08	--	4.0E-09	6.4E-08	Benzene	Blood	3.8E-03	--	3.1E-04	4.1E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	1.0E-02	--	8.3E-04	1.1E-02
			Styrene	--	--	--	--	Styrene	Blood/Liver	4.7E-03	--	3.8E-04	5.1E-03
			Tetrachloroethene	3.3E-07	--	2.2E-08	3.5E-07	Tetrachloroethene	Liver	1.6E-03	--	1.3E-04	1.7E-03
			Trichloroethene	8.3E-09	--	5.5E-10	8.8E-09	Trichloroethene	Liver	2.7E-03	--	2.2E-04	2.9E-03
			(Total)	8.1E-06	--	6.8E-07	8.7E-06	(Total)		1.4E-01	--	4.0E-03	1.4E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	7.3E-09	--	7.3E-09	Cadmium	Kidney	--	1.3E-03	--	1.3E-03
			Manganese	--	--	--	--	Manganese	CNS	--	5.1E-03	--	5.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	1.1E-12	--	1.1E-12	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	1.4E-12	--	1.4E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	8.4E-12	--	8.4E-12	4,4'-DDT	--	--	--	--	--
			Aroclor 1260	--	2.9E-12	--	2.9E-12	Aroclor 1260	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)pyrene	--	2.8E-10	--	2.8E-10	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	5.5E-10	--	5.5E-10	Dibenzo(a,h)anthracene	--	--	--	--	--
			N-Nitrosodiphenylamine	--	3.0E-11	--	3.0E-11	N-Nitrosodiphenylamine	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	1.3E-06	--	1.3E-06	Benzene	Blood	--	1.1E-02	--	1.1E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.2E-02	--	1.2E-02
			Styrene	--	--	--	--	Styrene	CNS	--	9.4E-03	--	9.4E-03
			Tetrachloroethene	--	3.0E-07	--	3.0E-07	Tetrachloroethene	Liver/Kidney	--	2.1E-02	--	2.1E-02
			Trichloroethene	--	8.0E-08	--	8.0E-08	Trichloroethene	CNS	--	1.0E-03	--	1.0E-03
			(Total)	--	1.7E-06	--	1.7E-06	(Total)		--	6.1E-02	--	6.1E-02

TABLE 9.16.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.0E-01	--	2.0E-01
		Using the J&E Model	1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.7E-02	--	2.7E-02
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	7.2E-03	--	7.2E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	9.4E-02	--	9.4E-02
			Benzene	--	2.2E-04	--	2.2E-04	Benzene	Blood	--	1.9E+00	--	1.9E+00
			Chloroform	--	6.0E-05	--	6.0E-05	Chloroform	Kidney	--	5.5E-01	--	5.5E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	9.6E-01	--	9.6E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.4E-04	--	3.4E-04
			Styrene	--	--	--	--	Styrene	CNS	--	3.1E-01	--	3.1E-01
			Tetrachloroethene	--	5.6E-05	--	5.6E-05	Tetrachloroethene	Liver/Kidney	--	4.0E+00	--	4.0E+00
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E-01	--	1.8E-01
			Trichloroethene	--	1.2E-05	--	1.2E-05	Trichloroethene	CNS	--	1.5E-01	--	1.5E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.2E-01	--	1.2E-01
			(Total)	--	3.5E-04	--	3.5E-04	(Total)		--	8.5E+00	--	8.5E+00
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	7.0E-04	--	7.0E-04
		Using the J&E Model	1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	2.8E-02	--	2.8E-02
			Benzene	--	5.3E-05	--	5.3E-05	Benzene	Blood	--	4.6E-01	--	4.6E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.4E-04	--	3.4E-04
			Tetrachloroethene	--	1.9E-07	--	1.9E-07	Tetrachloroethene	Liver/Kidney	--	1.4E-02	--	1.4E-02
			Trichloroethene	--	4.2E-08	--	4.2E-08	Trichloroethene	CNS	--	5.2E-04	--	5.2E-04
			(Total)	--	5.3E-05	--	5.3E-05	(Total)		--	5.0E-01	--	5.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.0E-05	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.0E-01
Total Risk for Shallow Soil-to-Indoor Air =	3.5E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.5E+00
Total Risk for Deep Soil-to-Indoor Air =	5.3E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	5.0E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-39	**EAPC No.:** 17

CT Exposure Scenario

TABLE 7.17.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	8.1E-08	mg/kg-day	4.0E-03	mg/kg-day	2.0E-05
	(Total)										2.0E-05
Dermal	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	4.5E-09	mg/kg-day	4.0E-03	mg/kg-day	1.1E-06
	(Total)										1.1E-06
										Total Hazard Index Across All Exposure Routes/Pathways	2.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.8E-01	mg/kg	3.3E-05	mg/m^3	R	3.2E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.4E-04
	Benzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	2.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-02
	Cyclohexane	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.6E-05	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	9.1E-06
	Ethylbenzene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	4.3E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.6E-04
	Styrene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	2.7E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.0E-04
	Tetrachloroethene	9.8E-07	mg/m^3	9.8E-07	mg/m^3	M	9.7E-08	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	9.7E-06
	Toluene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	6.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.0E-04
	Xylenes	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	4.5E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	1.1E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.9E-02
	4-Ethyl Toluene	--	mg/m^3	--	mg/m^3	M	--	--	2.0E-01	mg/kg-day	7.0E-01	mg/m3	--
	Benzene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	7.4E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E-02
	Ethylbenzene	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	5.5E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	9.5E-04
	Methyl Ethyl Ketone	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	9.3E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	6.5E-04
	Styrene	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	3.1E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	3.9E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.9E-02
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.0E-02
	Trichloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.0E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.9E-04
	Xylenes	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.1E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	1.1E-06	mg/kg-day	4.0E-03	mg/kg-day	2.8E-04
	(Total)										2.8E-04
Dermal	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	9.0E-08	mg/kg-day	4.0E-03	mg/kg-day	2.3E-05
	(Total)										2.3E-05
										Total Hazard Index Across All Exposure Routes/Pathways	3.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.8E-01	mg/kg	3.0E-05	mg/m^3	R	1.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	8.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.2E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.1E-03
	Benzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	2.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-01
	Cyclohexane	3.7E-04	mg/m^3	3.7E-04	mg/m^3	M	1.7E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.0E-04
	Ethylbenzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	4.9E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.5E-03
	Styrene	6.3E-04	mg/m^3	6.3E-04	mg/m^3	M	3.0E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	1.1E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-04
	Toluene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	7.7E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.0E-03
	Xylenes	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	5.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.17.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	7.6E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.6E-10
	(Total)										7.6E-10
Dermal	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	4.3E-10	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.3E-11
	(Total)										4.3E-11
										Total Risk Across All Exposure Routes/Pathways	8.0E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.8E-01	mg/kg	3.3E-05	mg/m^3	R	3.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-08
										Total Risk Across All Exposure Routes/Pathways	3.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.0E-05	mg/kg-day	--	--	--
	Benzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	2.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-06
	Cyclohexane	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.5E-06	mg/kg-day	--	--	--
	Ethylbenzene	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	4.1E-05	mg/kg-day	--	--	--
	Styrene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	2.5E-06	mg/kg-day	--	--	--
	Tetrachloroethene	9.8E-07	mg/m^3	9.8E-07	mg/m^3	M	9.1E-09	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-10
	Toluene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	6.5E-06	mg/kg-day	--	--	--
	Xylenes	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	4.2E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.1E-01	mg/m^3	1.1E-01	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Benzene	7.4E-03	mg/m^3	7.4E-03	mg/m^3	M	6.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.9E-06
	Ethylbenzene	5.5E-03	mg/m^3	5.5E-03	mg/m^3	M	5.1E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	8.8E-05	mg/kg-day	--	--	--
	Styrene	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	3.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.8E-07
	Toluene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.4E-04	mg/kg-day	--	--	--
	Trichloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	9.6E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.7E-08
	Xylenes	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.0E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	4.4E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.4E-09
	(Total)										4.4E-09
Dermal	**VOCs**										
	Benzene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	2.9E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-10
	(Total)										2.9E-10
										Total Risk Across All Exposure Routes/Pathways	4.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.8E-01	mg/kg	3.0E-05	mg/m^3	R	9.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.4E-08
										Total Risk Across All Exposure Routes/Pathways	9.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	8.1E-05	mg/kg-day	--	--	--
	Benzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-05
	Cyclohexane	3.7E-04	mg/m^3	3.7E-04	mg/m^3	M	1.2E-05	mg/kg-day	--	--	--
	Ethylbenzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	3.3E-04	mg/kg-day	--	--	--
	Styrene	6.3E-04	mg/m^3	6.3E-04	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	7.3E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-09
	Toluene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	5.2E-05	mg/kg-day	--	--	--
	Xylenes	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	3.4E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.17.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-39
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	7.6E-10	--	4.3E-11	8.0E-10	Benzene	Blood	2.0E-05	--	1.1E-06	2.1E-05
			(Total)	7.6E-10	--	4.3E-11	8.0E-10	(Total)		2.0E-05	--	1.1E-06	2.1E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	3.0E-08	--	3.0E-08	Benzene	Blood	--	1.9E-04	--	1.9E-04
			(Total)	--	3.0E-08	--	3.0E-08	(Total)		--	1.9E-04	--	1.9E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	5.4E-04	--	5.4E-04
			Benzene	--	2.0E-06	--	2.0E-06	Benzene	Blood	--	1.2E-02	--	1.2E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	9.1E-06	--	9.1E-06
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.6E-04	--	7.6E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.0E-04	--	1.0E-04
			Tetrachloroethene	--	1.9E-10	--	1.9E-10	Tetrachloroethene	Liver/Kidney	--	9.7E-06	--	9.7E-06
			Toluene	--	--	--	--	Toluene	CNS	--	8.0E-04	--	8.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.2E-03	--	2.2E-03
			(Total)	--	2.0E-06	--	2.0E-06	(Total)		--	1.7E-02	--	1.7E-02
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	3.9E-02	--	3.9E-02
			Benzene	--	6.9E-06	--	6.9E-06	4-Ethyl Toluene	CNS	--	--	--	--
			Ethylbenzene	--	--	--	--	Benzene	Blood	--	4.3E-02	--	4.3E-02
			Methyl Ethyl Ketone	--	--	--	--	Ethylbenzene	Developmental	--	9.5E-04	--	9.5E-04
			Styrene	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	6.5E-04	--	6.5E-04
			Tetrachloroethene	--	7.8E-07	--	7.8E-07	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Toluene	--	--	--	--	Tetrachloroethene	Liver/Kidney	--	3.9E-02	--	3.9E-02
			Trichloroethene	--	6.7E-08	--	6.7E-08	Toluene	CNS	--	3.0E-02	--	3.0E-02
			Xylenes	--	--	--	--	Trichloroethene	CNS	--	5.9E-04	--	5.9E-04
			(Total)	--	7.8E-06	--	7.8E-06	(Total)		--	1.6E-01	--	1.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.1E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.1E-04
Total Risk for Shallow Soil-to-Indoor Air =	2.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.7E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	7.8E-06	Total Hazard Index for Workplace Indoor Air =	1.6E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.17.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	4.4E-09	--	2.9E-10	4.7E-09	Benzene	Blood	2.8E-04	--	2.3E-05	3.0E-04
			(Total)	4.4E-09	--	2.9E-10	4.7E-09	(Total)		2.8E-04	--	2.3E-05	3.0E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	9.4E-08	--	9.4E-08	Benzene	Blood	--	8.2E-04	--	8.2E-04
			(Total)	--	9.4E-08	--	9.4E-08	(Total)		--	8.2E-04	--	8.2E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	6.1E-03	--	6.1E-03
			Benzene	--	1.6E-05	--	1.6E-05	Benzene	Blood	--	1.4E-01	--	1.4E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.0E-04	--	1.0E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.5E-03	--	8.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	1.5E-09	--	1.5E-09	Tetrachloroethene	Liver/Kidney	--	1.1E-04	--	1.1E-04
			Toluene	--	--	--	--	Toluene	CNS	--	9.0E-03	--	9.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.5E-02	--	2.5E-02
			(Total)	--	1.6E-05	--	1.6E-05	(Total)		--	1.9E-01	--	1.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	9.9E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.1E-03
Total Risk for Shallow Soil-to-Indoor Air =	1.6E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.9E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-41	**EAPC No.:** 18

CT Exposure Scenario

TABLE 7.18.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	4.3E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-04
	Ethylbenzene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	2.0E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.5E-05
	Styrene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	5.9E-06
	Tetrachloroethene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	3.1E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.1E-05
	Toluene	6.2E-05	mg/m^3	6.2E-05	mg/m^3	M	6.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.1E-05
	Xylenes	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.6E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.18.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	5.4E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.9E-02
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.9E-02
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-03
	Cyclohexane	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	6.8E-04
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.9E-03
	Methyl Ethyl Ketone	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.7E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.9E-03
	Methylene Chloride	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	3.5E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.1E-03
	Styrene	5.9E-03	mg/m^3	5.9E-03	mg/m^3	M	5.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.3E-03
	Tetrachloroethene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	1.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E-01
	Toluene	8.9E-02	mg/m^3	8.9E-02	mg/m^3	M	8.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.0E-01
	Trichloroethene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	3.5E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-03
	Xylenes	3.9E-02	mg/m^3	3.9E-02	mg/m^3	M	3.8E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.18.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	4.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-03
	Ethylbenzene	4.7E-04	mg/m^3	4.7E-04	mg/m^3	M	2.2E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.9E-04
	Styrene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	1.7E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.6E-05
	Tetrachloroethene	7.4E-06	mg/m^3	7.4E-06	mg/m^3	M	3.5E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.5E-04
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	6.8E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.0E-04
	Xylenes	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	7.4E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.18.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	4.1E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.1E-08
	Ethylbenzene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Styrene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	1.4E-07	mg/kg-day	--	--	--
	Tetrachloroethene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	3.0E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.2E-10
	Toluene	6.2E-05	mg/m^3	6.2E-05	mg/m^3	M	5.7E-07	mg/kg-day	--	--	--
	Xylenes	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.2E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.18.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	5.1E-04	mg/kg-day	--	--	--
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-05
	Chloroform	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.0E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.9E-07
	Cyclohexane	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.0E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Methylene Chloride	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	3.3E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.2E-07
	Styrene	5.9E-03	mg/m^3	5.9E-03	mg/m^3	M	5.5E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	9.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.0E-06
	Toluene	8.9E-02	mg/m^3	8.9E-02	mg/m^3	M	8.3E-04	mg/kg-day	--	--	--
	Trichloroethene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	3.3E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.3E-07
	Xylenes	3.9E-02	mg/m^3	3.9E-02	mg/m^3	M	3.6E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.18.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	3.3E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.3E-07
	Ethylbenzene	4.7E-04	mg/m^3	4.7E-04	mg/m^3	M	1.5E-05	mg/kg-day	--	--	--
	Styrene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	1.1E-06	mg/kg-day	--	--	--
	Tetrachloroethene	7.4E-06	mg/m^3	7.4E-06	mg/m^3	M	2.4E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.9E-09
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	4.6E-06	mg/kg-day	--	--	--
	Xylenes	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	4.9E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.18.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-41
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.1E-08	--	4.1E-08	Benzene	Blood	--	2.5E-04	--	2.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.5E-05	--	3.5E-05
			Styrene	--	--	--	--	Styrene	CNS	--	5.9E-06	--	5.9E-06
			Tetrachloroethene	--	6.2E-10	--	6.2E-10	Tetrachloroethene	Liver/Kidney	--	3.1E-05	--	3.1E-05
			Toluene	--	--	--	--	Toluene	CNS	--	7.1E-05	--	7.1E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.3E-06	--	3.3E-06
			(Total)	--	4.2E-08	--	4.2E-08	(Total)		--	4.0E-04	--	4.0E-04
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.9E-02	--	1.9E-02
			Benzene	--	1.3E-05	--	1.3E-05	Benzene	Blood	--	7.9E-02	--	7.9E-02
			Chloroform	--	1.9E-07	--	1.9E-07	Chloroform	Kidney	--	1.2E-03	--	1.2E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	6.8E-04	--	6.8E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.9E-03	--	1.9E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.9E-03	--	1.9E-03
			Methylene Chloride	--	1.2E-07	--	1.2E-07	Methylene Chloride	Liver	--	3.1E-03	--	3.1E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.3E-03	--	2.3E-03
			Tetrachloroethene	--	2.0E-06	--	2.0E-06	Tetrachloroethene	Liver/Kidney	--	1.0E-01	--	1.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.0E-01	--	1.0E-01
			Trichloroethene	--	2.3E-07	--	2.3E-07	Trichloroethene	CNS	--	2.0E-03	--	2.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.9E-02	--	1.9E-02
			(Total)	--	1.5E-05	--	1.5E-05	(Total)		--	3.3E-01	--	3.3E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.2E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.0E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.5E-05	Total Hazard Index for Workplace Indoor Air =	3.3E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.18.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.3E-07	--	3.3E-07	Benzene	Blood	--	2.8E-03	--	2.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.9E-04	--	3.9E-04
			Styrene	--	--	--	--	Styrene	CNS	--	6.6E-05	--	6.6E-05
			Tetrachloroethene	--	4.9E-09	--	4.9E-09	Tetrachloroethene	Liver/Kidney	--	3.5E-04	--	3.5E-04
			Toluene	--	--	--	--	Toluene	CNS	--	8.0E-04	--	8.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.7E-05	--	3.7E-05
			(Total)	--	3.3E-07	--	3.3E-07	(Total)		--	4.5E-03	--	4.5E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.3E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.5E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-43	**EAPC No.:** 19

CT Exposure Scenario

TABLE 7.19.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	8.2E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.2E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	6.0E-10	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	3.1E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	2.7E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	1.4E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	5.9E-06	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.1E-05
	Freon 11 (TCFM)	9.0E-05	mg/m^3	9.0E-05	mg/m^3	M	8.9E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.4E-05
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	3.3E-01	mg/m^3	3.3E-01	mg/m^3	M	3.3E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	1.2E-01
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-01
	Chloroform	8.7E-04	mg/m^3	8.7E-04	mg/m^3	M	8.6E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.0E-03
	Cyclohexane	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	4.4E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.6E-04
	Ethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	9.7E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-03
	Methyl Ethyl Ketone	4.2E-01	mg/m^3	4.2E-01	mg/m^3	M	4.2E-02	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	2.9E-02
	Methylene Chloride	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	4.7E-03
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.3E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.0E-04
	Tetrachloroethene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	6.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.1E-02
	Toluene	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	5.2E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.0E-02
	Xylenes	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.3E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	5.9E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	1.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	6.1E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	6.5E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.19.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	6.6E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.3E-04
	Freon 11 (TCFM)	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.0E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.0E-04
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.19.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	7.8E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	9.3E-09
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.0E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-09
	(Total)										1.1E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	5.7E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	6.8E-10
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.9E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-10
	(Total)										8.0E-10
										Total Risk Across All Exposure Routes/Pathways	1.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	2.5E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	9.8E-13
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	1.3E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.3E-13
										Total Risk Across All Exposure Routes/Pathways	1.5E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	5.9E-05	mg/m^3	5.9E-05	mg/m^3	M	5.5E-07	mg/kg-day	--	--	--
	Freon 11 (TCFM)	9.0E-05	mg/m^3	9.0E-05	mg/m^3	M	8.4E-07	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-08
										Total Risk Across All Exposure Routes/Pathways	2.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	3.3E-01	mg/m^3	3.3E-01	mg/m^3	M	3.1E-03	mg/kg-day	--	--	--
	Benzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-05
	Chloroform	8.7E-04	mg/m^3	8.7E-04	mg/m^3	M	8.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-07
	Cyclohexane	4.4E-03	mg/m^3	4.4E-03	mg/m^3	M	4.1E-05	mg/kg-day	--	--	--
	Ethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	9.1E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	4.2E-01	mg/m^3	4.2E-01	mg/m^3	M	3.9E-03	mg/kg-day	--	--	--
	Methylene Chloride	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	5.1E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.8E-07
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.2E-05	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	5.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-06
	Toluene	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	4.9E-04	mg/kg-day	--	--	--
	Xylenes	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	4.5E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.4E-08
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.3E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	9.5E-09
	(Total)										6.4E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	1.8E-02	mg/kg	M	3.9E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.7E-09
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.0E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	8.1E-10
	(Total)										5.5E-09
										Total Risk Across All Exposure Routes/Pathways	6.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.8E-02	mg/kg	2.7E-11	mg/m^3	R	8.6E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.3E-12
	Dibenzo(a,h)anthracene	9.2E-03	mg/kg	1.4E-11	mg/m^3	R	4.4E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-12
										Total Risk Across All Exposure Routes/Pathways	5.1E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.19.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-43

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	4.4E-06	mg/kg-day	--	--	--
	Freon 11 (TCFM)	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	6.7E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	9.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-07
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.19.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-43
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	9.3E-09	--	6.8E-10	1.0E-08	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.6E-09	--	1.2E-10	1.7E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	1.1E-08	--	8.0E-10	1.2E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	9.8E-13	--	9.8E-13	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	5.3E-13	--	5.3E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	1.5E-12	--	1.5E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.1E-05	--	2.1E-05
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	4.4E-05	--	4.4E-05
			Tetrachloroethene	--	2.4E-08	--	2.4E-08	Tetrachloroethene	Liver/Kidney	--	1.2E-03	--	1.2E-03
			(Total)	--	2.4E-08	--	2.4E-08	(Total)		--	1.3E-03	--	1.3E-03
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	1.2E-01	--	1.2E-01
			Benzene	--	1.6E-05	--	1.6E-05	Benzene	Blood	--	1.0E-01	--	1.0E-01
			Chloroform	--	1.5E-07	--	1.5E-07	Chloroform	Kidney	--	1.0E-03	--	1.0E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.6E-04	--	2.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-03	--	1.7E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	2.9E-02	--	2.9E-02
			Methylene Chloride	--	1.8E-07	--	1.8E-07	Methylene Chloride	Liver	--	4.7E-03	--	4.7E-03
			Styrene	--	--	--	--	Styrene	CNS	--	9.0E-04	--	9.0E-04
			Tetrachloroethene	--	1.2E-06	--	1.2E-06	Tetrachloroethene	Liver/Kidney	--	6.1E-02	--	6.1E-02
			Toluene	--	--	--	--	Toluene	CNS	--	6.0E-02	--	6.0E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.7E-02	--	1.7E-02
			(Total)	--	1.8E-05	--	1.8E-05	(Total)		--	3.9E-01	--	3.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.4E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.8E-05	Total Hazard Index for Workplace Indoor Air =	3.9E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.19.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-43
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	5.4E-08	--	4.7E-09	5.9E-08	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	9.5E-09	--	8.1E-10	1.0E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	6.4E-08	--	5.5E-09	6.9E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	3.3E-12	--	3.3E-12	Benzo(a)pyrene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.8E-12	--	1.8E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	5.1E-12	--	5.1E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.3E-04	--	2.3E-04
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	5.0E-04	--	5.0E-04
			Tetrachloroethene	--	1.9E-07	--	1.9E-07	Tetrachloroethene	Liver/Kidney	--	1.4E-02	--	1.4E-02
			(Total)	--	1.9E-07	--	1.9E-07	(Total)		--	1.4E-02	--	1.4E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.9E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.9E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.4E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-45	**EAPC No.:** 20

CT Exposure Scenario

TABLE 7.20.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.2E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	2.4E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	1.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	2.2E-06	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.4E-06
	Freon 11 (TCFM)	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.8E-05
	Tetrachloroethene	7.7E-05	mg/m^3	7.7E-05	mg/m^3	M	7.6E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	8.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	4.5E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	4.7E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	5.0E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.20.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	5.1E-05	mg/m^3	5.1E-05	mg/m^3	M	2.4E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.7E-05
	Freon 11 (TCFM)	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	1.3E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.5E-04
	Tetrachloroethene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	8.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.20.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	3.0E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.6E-09
	(Total)										3.6E-09
Dermal	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	2.2E-11	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.7E-10
	(Total)										2.7E-10
										Total Risk Across All Exposure Routes/Pathways	3.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	9.8E-14	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.8E-13
										Total Risk Across All Exposure Routes/Pathways	3.8E-13

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	2.0E-07	mg/kg-day	--	--	--
	Freon 11 (TCFM)	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.1E-06	mg/kg-day	--	--	--
	Tetrachloroethene	7.7E-05	mg/m^3	7.7E-05	mg/m^3	M	7.2E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
										Total Risk Across All Exposure Routes/Pathways	1.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.8E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.1E-08
	(Total)										2.1E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	7.0E-03	mg/kg	M	1.5E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.8E-09
	(Total)										1.8E-09
										Total Risk Across All Exposure Routes/Pathways	2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	7.0E-03	mg/kg	1.1E-11	mg/m^3	R	3.3E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.3E-12
										Total Risk Across All Exposure Routes/Pathways	1.3E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.20.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-45

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	5.1E-05	mg/m^3	5.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	--	--	--
	Freon 11 (TCFM)	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	8.7E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	5.7E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-07
										Total Risk Across All Exposure Routes/Pathways	1.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.20.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-45
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	3.6E-09	--	2.7E-10	3.9E-09	Benzo(a)pyrene	--	--	--	--	--
			(Total)	3.6E-09	--	2.7E-10	3.9E-09	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	3.8E-13	--	3.8E-13	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	3.8E-13	--	3.8E-13	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	2.4E-06	--	2.4E-06
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	5.8E-05	--	5.8E-05
			Tetrachloroethene	--	1.5E-08	--	1.5E-08	Tetrachloroethene	Liver/Kidney	--	7.6E-04	--	7.6E-04
			(Total)	--	1.5E-08	--	1.5E-08	(Total)		--	8.2E-04	--	8.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.9E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.5E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.20.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-45
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	2.1E-08	--	1.8E-09	2.3E-08	Benzo(a)pyrene	--	--	--	--	--
			(Total)	2.1E-08	--	1.8E-09	2.3E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	1.3E-12	--	1.3E-12	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	1.3E-12	--	1.3E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	2.7E-05	--	2.7E-05
			Freon 11 (TCFM)	--	--	--	--	Freon 11 (TCFM)	Whole Body	--	6.5E-04	--	6.5E-04
			Tetrachloroethene	--	1.2E-07	--	1.2E-07	Tetrachloroethene	Liver/Kidney	--	8.5E-03	--	8.5E-03
			(Total)	--	1.2E-07	--	1.2E-07	(Total)		--	9.2E-03	--	9.2E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.3E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.2E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.2E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-47	**EAPC No.:** 21

CT Exposure Scenario

TABLE 7.21.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.8E-05	mg/m^3	3.8E-05	mg/m^3	M	3.8E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-04
	Ethylbenzene	4.9E-04	mg/m^3	4.9E-04	mg/m^3	M	4.9E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.5E-05
	Tetrachloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	9.5E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	9.5E-05
	Toluene	5.6E-06	mg/m^3	5.6E-06	mg/m^3	M	5.5E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.5E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.21.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	7.5E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.6E-02
	Benzene	8.6E-03	mg/m^3	8.6E-03	mg/m^3	M	8.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.0E-02
	Cyclohexane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	1.4E-03
	Ethylbenzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	8.4E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-03
	Methyl Ethyl Ketone	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	8.3E-04
	Methylene Chloride	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	4.0E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.5E-03
	Styrene	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	3.2E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	6.5E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.5E-02
	Toluene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	4.5E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.3E-02
	Trichloroethene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	4.1E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.4E-03
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	3.1E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.6E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.21.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	9.0E-05	mg/m^3	9.0E-05	mg/m^3	M	4.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-03
	Ethylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	5.5E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	9.6E-04
	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
	Toluene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	6.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.21.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.8E-05	mg/m^3	3.8E-05	mg/m^3	M	3.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.6E-08
	Ethylbenzene	4.9E-04	mg/m^3	4.9E-04	mg/m^3	M	4.6E-06	mg/kg-day	--	--	--
	Tetrachloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	8.9E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	Toluene	5.6E-06	mg/m^3	5.6E-06	mg/m^3	M	5.2E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.21.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	7.5E-02	mg/m^3	7.5E-02	mg/m^3	M	7.0E-04	mg/kg-day	--	--	--
	Benzene	8.6E-03	mg/m^3	8.6E-03	mg/m^3	M	8.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.0E-06
	Cyclohexane	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	2.3E-04	mg/kg-day	--	--	--
	Ethylbenzene	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	7.9E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Methylene Chloride	4.0E-03	mg/m^3	4.0E-03	mg/m^3	M	3.8E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.3E-07
	Styrene	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	3.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	6.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.3E-06
	Toluene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	4.3E-04	mg/kg-day	--	--	--
	Trichloroethene	4.1E-03	mg/m^3	4.1E-03	mg/m^3	M	3.8E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-07
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	2.9E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.21.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	9.0E-05	mg/m^3	9.0E-05	mg/m^3	M	2.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-07
	Ethylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	3.7E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	7.1E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Toluene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	4.2E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.21.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-47
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.6E-08	--	3.6E-08	Benzene	Blood	--	2.2E-04	--	2.2E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.5E-05	--	8.5E-05
			Tetrachloroethene	--	1.9E-09	--	1.9E-09	Tetrachloroethene	Liver/Kidney	--	9.5E-05	--	9.5E-05
			Toluene	--	--	--	--	Toluene	CNS	--	6.5E-06	--	6.5E-06
			(Total)	--	3.8E-08	--	3.8E-08	(Total)		--	4.1E-04	--	4.1E-04
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.6E-02	--	2.6E-02
			Benzene	--	8.0E-06	--	8.0E-06	Benzene	Blood	--	5.0E-02	--	5.0E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	1.4E-03	--	1.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-03	--	1.5E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	8.3E-04	--	8.3E-04
			Methylene Chloride	--	1.3E-07	--	1.3E-07	Methylene Chloride	Liver	--	3.5E-03	--	3.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	1.3E-06	--	1.3E-06	Tetrachloroethene	Liver/Kidney	--	6.5E-02	--	6.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	5.3E-02	--	5.3E-02
			Trichloroethene	--	2.7E-07	--	2.7E-07	Trichloroethene	CNS	--	2.4E-03	--	2.4E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.6E-02	--	1.6E-02
			(Total)	--	9.7E-06	--	9.7E-06	(Total)		--	2.2E-01	--	2.2E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	9.7E-06	Total Hazard Index for Workplace Indoor Air =	2.2E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.21.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.9E-07	--	2.9E-07	Benzene	Blood	--	2.5E-03	--	2.5E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	9.6E-04	--	9.6E-04
			Tetrachloroethene	--	1.5E-08	--	1.5E-08	Tetrachloroethene	Liver/Kidney	--	1.1E-03	--	1.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	7.3E-05	--	7.3E-05
			(Total)	--	3.0E-07	--	3.0E-07	(Total)		--	4.6E-03	--	4.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.0E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-52	**EAPC No.:** 22

CT Exposure Scenario

TABLE 7.22.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	3.3E-09	mg/kg-day	6.0E-03	mg/kg-day	5.4E-07
	(Total)										5.4E-07
Dermal	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.8E-10	mg/kg-day	6.0E-03	mg/kg-day	3.1E-08
	(Total)										3.1E-08
										Total Hazard Index Across All Exposure Routes/Pathways	5.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Trichloroethene	7.1E-03	mg/kg	1.1E-06	mg/m^3	R	1.1E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.4E-07
												Total Hazard Index Across All Exposure Routes/Pathways	6.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	1.9E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-04
	Benzene	9.3E-06	mg/m^3	9.3E-06	mg/m^3	M	9.2E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.3E-05
	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	2.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.0E-04
	Trichloroethene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	6.3E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.7E-05
	Xylenes	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	5.2E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.7E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	6.0E-03
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E-01
	Cyclohexane	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	7.1E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.1E-04
	Ethylbenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.5E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.6E-03
	Methyl Ethyl Ketone	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	5.1E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	3.5E-04
	Methylene Chloride	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	2.0E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.7E-03
	Styrene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	1.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	7.2E-04
	Tetrachloroethene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	8.7E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.7E-02
	Toluene	9.7E-02	mg/m^3	9.7E-02	mg/m^3	M	9.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-01
	Trichloroethene	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.0E-03
	Xylenes	6.2E-02	mg/m^3	6.2E-02	mg/m^3	M	6.1E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	4.5E-08	mg/kg-day	6.0E-03	mg/kg-day	7.6E-06
	(Total)										7.6E-06
Dermal	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	3.6E-09	mg/kg-day	6.0E-03	mg/kg-day	6.1E-07
	(Total)										6.1E-07
										Total Hazard Index Across All Exposure Routes/Pathways	8.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Trichloroethene	7.1E-03	mg/kg	1.0E-06	mg/m^3	R	4.8E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.8E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.8E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.22.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-52
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.3E-03
	Benzene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	1.0E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.0E-04
	Tetrachloroethene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	2.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.3E-03
	Trichloroethene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	7.1E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.1E-04
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	5.8E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.9E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.22.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	3.1E-10	mg/kg-day	1.3E-02	mg/kg-day^{-1}	4.0E-12
	(Total)										4.0E-12
Dermal	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.7E-11	mg/kg-day	1.3E-02	mg/kg-day^{-1}	2.3E-13
	(Total)										2.3E-13
										Total Risk Across All Exposure Routes/Pathways	4.2E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	1.1E-06	mg/m^3	R	1.0E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.3E-11
										Total Risk Across All Exposure Routes/Pathways	7.3E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	1.8E-08	mg/kg-day	--	--	--
	Benzene	9.3E-06	mg/m^3	9.3E-06	mg/m^3	M	8.6E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.6E-09
	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.9E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.1E-09
	Trichloroethene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	5.9E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.1E-09
	Xylenes	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	4.9E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.6E-04	mg/kg-day	--	--	--
	Benzene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-05
	Cyclohexane	7.2E-03	mg/m^3	7.2E-03	mg/m^3	M	6.7E-05	mg/kg-day	--	--	--
	Ethylbenzene	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	4.8E-05	mg/kg-day	--	--	--
	Methylene Chloride	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	1.9E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	6.6E-08
	Styrene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	1.7E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	8.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.7E-06
	Toluene	9.7E-02	mg/m^3	9.7E-02	mg/m^3	M	9.1E-04	mg/kg-day	--	--	--
	Trichloroethene	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	1.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-07
	Xylenes	6.2E-02	mg/m^3	6.2E-02	mg/m^3	M	5.7E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.8E-09	mg/kg-day	1.3E-02	mg/kg-day^{-1}	2.3E-11
	(Total)										2.3E-11
Dermal	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	7.1E-03	mg/kg	M	1.2E-10	mg/kg-day	1.3E-02	mg/kg-day^{-1}	1.5E-12
	(Total)										1.5E-12
										Total Risk Across All Exposure Routes/Pathways	2.5E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Trichloroethene	7.1E-03	mg/kg	1.0E-06	mg/m^3	R	3.2E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.3E-10
										Total Risk Across All Exposure Routes/Pathways	2.3E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.22.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	1.4E-07	mg/kg-day	--	--	--
	Benzene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	6.9E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.9E-08
	Tetrachloroethene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-08
	Trichloroethene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	4.7E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.3E-08
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	3.9E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.22.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-52
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Trichloroethene	4.0E-12	--	2.3E-13	4.2E-12	Trichloroethene	Liver	5.4E-07	--	3.1E-08	5.7E-07
			(Total)	4.0E-12	--	2.3E-13	4.2E-12	(Total)		5.4E-07	--	3.1E-08	5.7E-07
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Trichloroethene	--	7.3E-11	--	7.3E-11	Trichloroethene	CNS	--	6.4E-07	--	6.4E-07
			(Total)	--	7.3E-11	--	7.3E-11	(Total)		--	6.4E-07	--	6.4E-07
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.1E-04	--	1.1E-04
			Benzene	--	8.6E-09	--	8.6E-09	Benzene	Blood	--	5.3E-05	--	5.3E-05
			Tetrachloroethene	--	4.1E-09	--	4.1E-09	Tetrachloroethene	Liver/Kidney	--	2.0E-04	--	2.0E-04
			Trichloroethene	--	4.1E-09	--	4.1E-09	Trichloroethene	CNS	--	3.7E-05	--	3.7E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.6E-06	--	2.6E-06
			(Total)	--	1.7E-08	--	1.7E-08	(Total)		--	4.1E-04	--	4.1E-04
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	6.0E-03	--	6.0E-03
			Benzene	--	2.0E-05	--	2.0E-05	Benzene	Blood	--	1.2E-01	--	1.2E-01
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.1E-04	--	4.1E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.6E-03	--	2.6E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	3.5E-04	--	3.5E-04
			Methylene Chloride	--	6.6E-08	--	6.6E-08	Methylene Chloride	Liver	--	1.7E-03	--	1.7E-03
			Styrene	--	--	--	--	Styrene	CNS	--	7.2E-04	--	7.2E-04
			Tetrachloroethene	--	1.7E-06	--	1.7E-06	Tetrachloroethene	Liver/Kidney	--	8.7E-02	--	8.7E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-01	--	1.1E-01
			Trichloroethene	--	1.2E-07	--	1.2E-07	Trichloroethene	CNS	--	1.0E-03	--	1.0E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.0E-02	--	3.0E-02
			(Total)	--	2.2E-05	--	2.2E-05	(Total)		--	3.6E-01	--	3.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	7.7E-11	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.2E-06
Total Risk for Shallow Soil-to-Indoor Air =	1.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	2.2E-05	Total Hazard Index for Workplace Indoor Air =	3.6E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.22.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-52

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Trichloroethene	2.3E-11	--	1.5E-12	2.5E-11	Trichloroethene	Liver	7.6E-06	--	6.1E-07	8.2E-06
			(Total)	2.3E-11	--	1.5E-12	2.5E-11	(Total)		7.6E-06	--	6.1E-07	8.2E-06
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Trichloroethene	--	2.3E-10	--	2.3E-10	Trichloroethene	CNS	--	2.8E-06	--	2.8E-06
			(Total)	--	2.3E-10	--	2.3E-10	(Total)		--	2.8E-06	--	2.8E-06
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.3E-03	--	1.3E-03
			Benzene	--	6.9E-08	--	6.9E-08	Benzene	Blood	--	6.0E-04	--	6.0E-04
			Tetrachloroethene	--	3.2E-08	--	3.2E-08	Tetrachloroethene	Liver/Kidney	--	2.3E-03	--	2.3E-03
			Trichloroethene	--	3.3E-08	--	3.3E-08	Trichloroethene	CNS	--	4.1E-04	--	4.1E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.9E-05	--	2.9E-05
			(Total)	--	1.3E-07	--	1.3E-07	(Total)		--	4.6E-03	--	4.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.5E-10	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.1E-05
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-57	**EAPC No.:** 23

CT Exposure Scenario

TABLE 7.23.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.4E-06	mg/kg-day	4.0E-03	mg/kg-day	3.5E-04
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	6.1E-05	mg/kg-day	1.0E-01	mg/kg-day	6.1E-04
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	2.8E-07	mg/kg-day	1.0E-02	mg/kg-day	2.8E-05
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	2.7E-07	mg/kg-day	6.0E-03	mg/kg-day	4.5E-05
	(Total)										1.0E-03
Dermal	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	7.8E-08	mg/kg-day	4.0E-03	mg/kg-day	2.0E-05
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	3.4E-06	mg/kg-day	1.0E-01	mg/kg-day	3.4E-05
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.6E-08	mg/kg-day	1.0E-02	mg/kg-day	1.6E-06
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.5E-08	mg/kg-day	6.0E-03	mg/kg-day	2.6E-06
	(Total)										5.8E-05
										Total Hazard Index Across All Exposure Routes/Pathways	1.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+00	mg/kg	5.6E-04	mg/m^3	R	5.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.2E-03
	Ethylbenzene	1.3E+02	mg/kg	1.3E-02	mg/m^3	R	1.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E-03
	Tetrachloroethene	6.1E-01	mg/kg	1.2E-04	mg/m^3	R	1.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-03
	Trichloroethene	6.0E-01	mg/kg	9.3E-05	mg/m^3	R	9.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	6.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.3E-03
	1,2,4-Trimethylbenzene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	4.3E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.5E-03
	1,3,5-Trimethylbenzene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	Acetone	7.0E-02	mg/m^3	7.0E-02	mg/m^3	M	6.9E-03	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	7.7E-03
	Benzene	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	3.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E-01
	sec-Butylbenzene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.8E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.6E-05
	Chloroform	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	8.4E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.8E-03
	Ethylbenzene	4.1E-01	mg/m^3	4.1E-01	mg/m^3	M	4.0E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.0E-02
	Styrene	2.8E-04	mg/m^3	2.8E-04	mg/m^3	M	2.8E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-04
	Tetrachloroethene	9.0E-03	mg/m^3	9.0E-03	mg/m^3	M	8.9E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.9E-02
	Toluene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.4E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.9E-03
	Trichloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	5.3E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.1E-03
	Xylenes	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.3E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	4.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.1E-04
	Benzene	1.9E-01	mg/m^3	1.9E-01	mg/m^3	M	1.9E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E+00
	Chloroform	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-04
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	7.8E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-04
	Styrene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	4.2E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.6E-05
	Toluene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.2E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-03
	Trichloroethene	8.9E-05	mg/m^3	8.9E-05	mg/m^3	M	8.8E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.9E-05	mg/kg-day	4.0E-03	mg/kg-day	4.8E-03
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	8.5E-04	mg/kg-day	1.0E-01	mg/kg-day	8.5E-03
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	3.9E-06	mg/kg-day	1.0E-02	mg/kg-day	3.9E-04
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	3.8E-06	mg/kg-day	6.0E-03	mg/kg-day	6.3E-04
	(Total)										1.4E-02
Dermal	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.5E-06	mg/kg-day	4.0E-03	mg/kg-day	3.9E-04
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	6.8E-05	mg/kg-day	1.0E-01	mg/kg-day	6.8E-04
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	3.1E-07	mg/kg-day	1.0E-02	mg/kg-day	3.1E-05
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	3.0E-07	mg/kg-day	6.0E-03	mg/kg-day	5.1E-05
	(Total)										1.1E-03
										Total Hazard Index Across All Exposure Routes/Pathways	1.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E+00	mg/kg	5.1E-04	mg/m^3	R	2.4E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-02
	Ethylbenzene	1.3E+02	mg/kg	1.2E-02	mg/m^3	R	5.5E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	9.6E-03
	Tetrachloroethene	6.1E-01	mg/kg	1.1E-04	mg/m^3	R	5.4E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.4E-03
	Trichloroethene	6.0E-01	mg/kg	8.5E-05	mg/m^3	R	4.0E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.8E-02
	1,2,4-Trimethylbenzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	4.8E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.8E-02
	1,3,5-Trimethylbenzene	8.5E-05	mg/m^3	8.5E-05	mg/m^3	M	4.0E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.3E-02
	Acetone	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	7.7E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	8.6E-02
	Benzene	8.7E-02	mg/m^3	8.7E-02	mg/m^3	M	4.1E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E+00
	sec-Butylbenzene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	2.1E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	5.2E-04
	Chloroform	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	9.4E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-01
	Ethylbenzene	9.5E-01	mg/m^3	9.5E-01	mg/m^3	M	4.5E-01	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.9E-01
	Styrene	6.6E-04	mg/m^3	6.6E-04	mg/m^3	M	3.1E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.2E-03
	Tetrachloroethene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	9.9E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	9.9E-01
	Toluene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	3.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.4E-02
	Trichloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	5.9E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.4E-02
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	1.5E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-03
	Benzene	4.4E-01	mg/m^3	4.4E-01	mg/m^3	M	2.1E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.2E+01
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.2E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.4E-03
	Ethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	8.8E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-03
	Styrene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	4.7E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.8E-04
	Toluene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-02
	Trichloroethene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	9.9E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.23.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	5.7E-06	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	2.7E-08	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-08
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	2.6E-08	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	3.3E-10
	(Total)										2.8E-08
Dermal	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	7.4E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.4E-10
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.5E-09	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	8.1E-10
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.4E-09	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.9E-11
	(Total)										1.6E-09
										Total Risk Across All Exposure Routes/Pathways	2.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+00	mg/kg	5.6E-04	mg/m^3	R	5.2E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.2E-07
	Ethylbenzene	1.3E+02	mg/kg	1.3E-02	mg/m^3	R	1.2E-04	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	1.2E-04	mg/m^3	R	1.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-08
	Trichloroethene	6.0E-01	mg/kg	9.3E-05	mg/m^3	R	8.7E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.1E-09
										Total Risk Across All Exposure Routes/Pathways	5.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	4.0E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	3.4E-07	mg/kg-day	--	--	--
	Acetone	7.0E-02	mg/m^3	7.0E-02	mg/m^3	M	6.5E-04	mg/kg-day	--	--	--
	Benzene	3.7E-02	mg/m^3	3.7E-02	mg/m^3	M	3.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.5E-05
	sec-Butylbenzene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	1.7E-07	mg/kg-day	--	--	--
	Chloroform	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	7.9E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-06
	Ethylbenzene	4.1E-01	mg/m^3	4.1E-01	mg/m^3	M	3.8E-03	mg/kg-day	--	--	--
	Styrene	2.8E-04	mg/m^3	2.8E-04	mg/m^3	M	2.6E-06	mg/kg-day	--	--	--
	Tetrachloroethene	9.0E-03	mg/m^3	9.0E-03	mg/m^3	M	8.4E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.8E-06
	Toluene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.2E-05	mg/kg-day	--	--	--
	Trichloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	5.0E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-07
	Xylenes	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.1E-06	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	8.2E-08
	Benzene	1.9E-01	mg/m^3	1.9E-01	mg/m^3	M	1.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-04
	Chloroform	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.0E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.0E-08
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	7.4E-06	mg/kg-day	--	--	--
	Styrene	4.3E-05	mg/m^3	4.3E-05	mg/m^3	M	4.0E-07	mg/kg-day	--	--	--
	Toluene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Trichloroethene	8.9E-05	mg/m^3	8.9E-05	mg/m^3	M	8.3E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.8E-09
										Total Risk Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	2.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-05
										Total Risk Across All Exposure Routes/Pathways	2.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	7.6E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.6E-08
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	3.3E-05	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.5E-07	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	8.3E-08
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.5E-07	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	(Total)										1.6E-07
Dermal	**VOCs**										
	Benzene	3.0E+00	mg/kg	3.0E+00	mg/kg	M	5.0E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.0E-09
	Ethylbenzene	1.3E+02	mg/kg	1.3E+02	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	6.1E-01	mg/kg	M	1.0E-08	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	5.5E-09
	Trichloroethene	6.0E-01	mg/kg	6.0E-01	mg/kg	M	9.9E-09	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.3E-10
	(Total)										1.1E-08
										Total Risk Across All Exposure Routes/Pathways	1.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E+00	mg/kg	5.1E-04	mg/m^3	R	1.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-06
	Ethylbenzene	1.3E+02	mg/kg	1.2E-02	mg/m^3	R	3.7E-04	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-01	mg/kg	1.1E-04	mg/m^3	R	3.6E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	7.5E-08
	Trichloroethene	6.0E-01	mg/kg	8.5E-05	mg/m^3	R	2.7E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.9E-08
										Total Risk Across All Exposure Routes/Pathways	1.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	9.2E-04	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	3.2E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	8.5E-05	mg/m^3	8.5E-05	mg/m^3	M	2.7E-06	mg/kg-day	--	--	--
	Acetone	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	5.2E-03	mg/kg-day	--	--	--
	Benzene	8.7E-02	mg/m^3	8.7E-02	mg/m^3	M	2.8E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-04
	sec-Butylbenzene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	1.4E-06	mg/kg-day	--	--	--
	Chloroform	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	6.3E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.2E-05
	Ethylbenzene	9.5E-01	mg/m^3	9.5E-01	mg/m^3	M	3.0E-02	mg/kg-day	--	--	--
	Styrene	6.6E-04	mg/m^3	6.6E-04	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	6.7E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-05
	Toluene	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Trichloroethene	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	3.9E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.8E-06
	Xylenes	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	9.8E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	9.1E-06	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	6.6E-07
	Benzene	4.4E-01	mg/m^3	4.4E-01	mg/m^3	M	1.4E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.4E-03
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	8.3E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.6E-07
	Ethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	5.9E-05	mg/kg-day	--	--	--
	Styrene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	3.2E-06	mg/kg-day	--	--	--
	Toluene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	8.7E-05	mg/kg-day	--	--	--
	Trichloroethene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	6.6E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.6E-08
										Total Risk Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.23.1.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	1.3E-08	--	7.4E-10	1.4E-08	Benzene	Blood	3.5E-04	--	2.0E-05	3.7E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	6.1E-04	--	3.4E-05	6.4E-04
			Tetrachloroethene	1.4E-08	--	8.1E-10	1.5E-08	Tetrachloroethene	Liver	2.8E-05	--	1.6E-06	3.0E-05
			Trichloroethene	3.3E-10	--	1.9E-11	3.5E-10	Trichloroethene	Liver	4.5E-05	--	2.6E-06	4.8E-05
			(Total)	2.8E-08	--	1.6E-09	2.9E-08	(Total)		1.0E-03	--	5.8E-05	1.1E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	5.2E-07	--	5.2E-07	Benzene	Blood	--	3.2E-03	--	3.2E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E-03	--	2.2E-03
			Tetrachloroethene	--	2.4E-08	--	2.4E-08	Tetrachloroethene	Liver/Kidney	--	1.2E-03	--	1.2E-03
			Trichloroethene	--	6.1E-09	--	6.1E-09	Trichloroethene	CNS	--	5.4E-05	--	5.4E-05
			(Total)	--	5.5E-07	--	5.5E-07	(Total)		--	6.7E-03	--	6.7E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	4.3E-03	--	4.3E-03
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.5E-03	--	2.5E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	7.7E-03	--	7.7E-03
			Benzene	--	3.5E-05	--	3.5E-05	Benzene	Blood	--	2.1E-01	--	2.1E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	4.6E-05	--	4.6E-05
			Chloroform	--	1.5E-06	--	1.5E-06	Chloroform	Kidney	--	9.8E-03	--	9.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.0E-02	--	7.0E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-04	--	1.1E-04
			Tetrachloroethene	--	1.8E-06	--	1.8E-06	Tetrachloroethene	Liver/Kidney	--	8.9E-02	--	8.9E-02
			Toluene	--	--	--	--	Toluene	CNS	--	3.9E-03	--	3.9E-03
			Trichloroethene	--	3.5E-07	--	3.5E-07	Trichloroethene	CNS	--	3.1E-03	--	3.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.6E-03	--	6.6E-03
			(Total)	--	3.8E-05	--	3.8E-05	(Total)		--	4.1E-01	--	4.1E-01

TABLE 9.23.1.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future

Receptor Population: Commercial Worker

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2-Dichloroethane	--	8.2E-08	--	8.2E-08	1,2-Dichloroethane	Liver	--	1.1E-04	--	1.1E-04
		Using the J&E Model	Benzene	--	1.8E-04	--	1.8E-04	Benzene	Blood	--	1.1E+00	--	1.1E+00
			Chloroform	--	2.0E-08	--	2.0E-08	Chloroform	Kidney	--	1.3E-04	--	1.3E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-04	--	1.4E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.6E-05	--	1.6E-05
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-03	--	1.3E-03
			Trichloroethene	--	5.8E-09	--	5.8E-09	Trichloroethene	CNS	--	5.1E-05	--	5.1E-05
			(Total)	--	1.8E-04	--	1.8E-04	(Total)		--	1.1E+00	--	1.1E+00
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	2.4E-05	--	2.4E-05	Benzene	Blood	--	1.5E-01	--	1.5E-01
			(Total)	--	2.4E-05	--	2.4E-05	(Total)		--	1.5E-01	--	1.5E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.8E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.8E-03
Total Risk for Shallow Soil-to-Indoor Air =	3.8E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.1E-01
Total Risk for Deep Soil-to-Indoor Air =	1.8E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	1.1E+00
Total Risk for Workplace Indoor Air =	2.4E-05	Total Hazard Index for Workplace Indoor Air =	1.5E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.23.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**VOCs**					**VOCs**					
			Benzene	7.6E-08	--	5.0E-09	8.1E-08	Benzene	Blood	4.8E-03	--	3.9E-04	5.2E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Liver/Kidney	8.5E-03	--	6.8E-04	9.2E-03
			Tetrachloroethene	8.3E-08	--	5.5E-09	8.9E-08	Tetrachloroethene	Liver	3.9E-04	--	3.1E-05	4.2E-04
			Trichloroethene	1.9E-09	--	1.3E-10	2.1E-09	Trichloroethene	Liver	6.3E-04	--	5.1E-05	6.8E-04
			(Total)	1.6E-07	--	1.1E-08	1.7E-07	(Total)		1.4E-02	--	1.1E-03	1.6E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**VOCs**					**VOCs**					
			Benzene	--	1.6E-06	--	1.6E-06	Benzene	Blood	--	1.4E-02	--	1.4E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	9.6E-03	--	9.6E-03
			Tetrachloroethene	--	7.5E-08	--	7.5E-08	Tetrachloroethene	Liver/Kidney	--	5.4E-03	--	5.4E-03
			Trichloroethene	--	1.9E-08	--	1.9E-08	Trichloroethene	CNS	--	2.3E-04	--	2.3E-04
			(Total)	--	1.7E-06	--	1.7E-06	(Total)		--	2.9E-02	--	2.9E-02
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	4.8E-02	--	4.8E-02
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.8E-02	--	2.8E-02
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.3E-02	--	2.3E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	8.6E-02	--	8.6E-02
			Benzene	--	2.8E-04	--	2.8E-04	Benzene	Blood	--	2.4E+00	--	2.4E+00
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	5.2E-04	--	5.2E-04
			Chloroform	--	1.2E-05	--	1.2E-05	Chloroform	Kidney	--	1.1E-01	--	1.1E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.9E-01	--	7.9E-01
			Styrene	--	--	--	--	Styrene	CNS	--	1.2E-03	--	1.2E-03
			Tetrachloroethene	--	1.4E-05	--	1.4E-05	Tetrachloroethene	Liver/Kidney	--	9.9E-01	--	9.9E-01
			Toluene	--	--	--	--	Toluene	CNS	--	4.4E-02	--	4.4E-02
			Trichloroethene	--	2.8E-06	--	2.8E-06	Trichloroethene	CNS	--	3.4E-02	--	3.4E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.4E-02	--	7.4E-02
			(Total)	--	3.0E-04	--	3.0E-04	(Total)		--	4.6E+00	--	4.6E+00

TABLE 9.23.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future

Receptor Population: Residents

Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	1,2-Dichloroethane	--	6.6E-07	--	6.6E-07	1,2-Dichloroethane	Liver	--	1.2E-03	--	1.2E-03
		Using the J&E Model	Benzene	--	1.4E-03	--	1.4E-03	Benzene	Blood	--	1.2E+01	--	1.2E+01
			Chloroform	--	1.6E-07	--	1.6E-07	Chloroform	Kidney	--	1.4E-03	--	1.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-03	--	1.5E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.8E-04	--	1.8E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-02	--	1.5E-02
			Trichloroethene	--	4.6E-08	--	4.6E-08	Trichloroethene	CNS	--	5.8E-04	--	5.8E-04
			(Total)	--	1.4E-03	--	1.4E-03	(Total)		--	1.2E+01	--	1.2E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.9E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.5E-02
Total Risk for Shallow Soil-to-Indoor Air =	3.0E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.6E+00
Total Risk for Deep Soil-to-Indoor Air =	1.4E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	1.2E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-58	**EAPC No.:** 24

CT Exposure Scenario

TABLE 7.24.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.9E-07	mg/kg-day	6.0E-03	mg/kg-day	3.2E-05
	(Total)										3.2E-05
Dermal	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.1E-08	mg/kg-day	6.0E-03	mg/kg-day	1.8E-06
	(Total)										1.8E-06
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	9.8E-11	mg/kg-day	--	--	--	--	--
	VOCs												
	Trichloroethene	4.2E-01	mg/kg	6.5E-05	mg/m^3	R	6.5E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.8E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	1.4E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	7.9E-05
	1,3,5-Trimethylbenzene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	5.3E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.1E-05
	Benzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	2.6E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-02
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.9E-03
	Tetrachloroethene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	6.0E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.0E-02
	Trichloroethene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	3.7E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.2E-03
	Xylenes	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	2.5E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	8.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	2.3E-01	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E+01
	Methylene Chloride	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.1E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	9.7E-03
	Toluene	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	6.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.7E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	4.2E-06	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	2.7E-06	mg/kg-day	6.0E-03	mg/kg-day	4.5E-04
	(Total)										4.5E-04
Dermal	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	4.4E-07	mg/kg-day	--	--	--
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	2.1E-07	mg/kg-day	6.0E-03	mg/kg-day	3.6E-05
	(Total)										3.6E-05
										Total Hazard Index Across All Exposure Routes/Pathways	4.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	4.7E-10	mg/kg-day	--	--	--	--	--
	VOCs												
	Trichloroethene	4.2E-01	mg/kg	6.0E-05	mg/m^3	R	2.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	1.5E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.9E-04
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	5.9E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.4E-04
	Benzene	6.3E-03	mg/m^3	6.3E-03	mg/m^3	M	3.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.7E-01
	Ethylbenzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.2E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.1E-02
	Tetrachloroethene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	6.8E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.8E-01
	Trichloroethene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	4.1E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.4E-02
	Xylenes	5.9E-03	mg/m^3	5.9E-03	mg/m^3	M	2.8E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	9.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.4E+00	mg/m^3	5.4E+00	mg/m^3	M	2.6E+00	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E+02
	Methylene Chloride	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	1.2E-02	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.1E-01
	Toluene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	7.4E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.7E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.24.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	2.8E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.4E-07
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.8E-08	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	2.3E-10
	(Total)										3.4E-07
Dermal	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	2.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.5E-08
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.0E-09	mg/kg-day	1.3E-02	$mg/kg\text{-}day^{-1}$	1.3E-11
	(Total)										2.5E-08
										Total Risk Across All Exposure Routes/Pathways	3.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	9.2E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	3.6E-11
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	6.5E-05	mg/m^3	R	6.1E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.3E-09
										Total Risk Across All Exposure Routes/Pathways	4.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	1.3E-08	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	5.0E-09	mg/kg-day	--	--	--
	Benzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	2.5E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-06
	Ethylbenzene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.0E-04	mg/kg-day	--	--	--
	Tetrachloroethene	6.1E-03	mg/m^3	6.1E-03	mg/m^3	M	5.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-06
	Trichloroethene	3.7E-03	mg/m^3	3.7E-03	mg/m^3	M	3.5E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-07
	Xylenes	2.5E-03	mg/m^3	2.5E-03	mg/m^3	M	2.3E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	2.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-03
	Methylene Chloride	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.0E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	3.7E-07
	Toluene	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	6.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	1.7E-07	mg/kg-day	1.2E+01	mg/kg-day^{-1}	2.0E-06
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	1.0E-07	mg/kg-day	1.3E-02	mg/kg-day^{-1}	1.4E-09
	(Total)										2.0E-06
Dermal	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	6.6E-01	mg/kg	M	1.4E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.7E-07
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	4.2E-01	mg/kg	M	6.9E-09	mg/kg-day	1.3E-02	mg/kg-day^{-1}	9.0E-11
	(Total)										1.7E-07
										Total Risk Across All Exposure Routes/Pathways	2.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	6.6E-01	mg/kg	9.9E-10	mg/m^3	R	3.1E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.2E-10
	VOCs										
	Trichloroethene	4.2E-01	mg/kg	6.0E-05	mg/m^3	R	1.9E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.3E-08
										Total Risk Across All Exposure Routes/Pathways	1.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	1.0E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	4.0E-08	mg/kg-day	--	--	--
	Benzene	6.3E-03	mg/m^3	6.3E-03	mg/m^3	M	2.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-05
	Ethylbenzene	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	8.1E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	4.5E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	9.5E-06
	Trichloroethene	8.8E-03	mg/m^3	8.8E-03	mg/m^3	M	2.8E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.9E-06
	Xylenes	5.9E-03	mg/m^3	5.9E-03	mg/m^3	M	1.9E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.4E+00	mg/m^3	5.4E+00	mg/m^3	M	1.7E-01	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-02
	Methylene Chloride	2.6E-02	mg/m^3	2.6E-02	mg/m^3	M	8.4E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	2.9E-06
	Toluene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	5.0E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.24.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	3.4E-07	--	2.5E-08	3.7E-07	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	2.3E-10	--	1.3E-11	2.5E-10	Trichloroethene	Liver	3.2E-05	--	1.8E-06	3.4E-05
			(Total)	3.4E-07	--	2.5E-08	3.7E-07	(Total)		3.2E-05	--	1.8E-06	3.4E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	3.6E-11	--	3.6E-11	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	--	4.3E-09	--	4.3E-09	Trichloroethene	CNS	--	3.8E-05	--	3.8E-05
			(Total)	--	4.3E-09	--	4.3E-09	(Total)		--	3.8E-05	--	3.8E-05
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	7.9E-05	--	7.9E-05
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	3.1E-05	--	3.1E-05
			Benzene	--	2.5E-06	--	2.5E-06	Benzene	Blood	--	1.5E-02	--	1.5E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.9E-03	--	1.9E-03
			Tetrachloroethene	--	1.2E-06	--	1.2E-06	Tetrachloroethene	Liver/Kidney	--	6.0E-02	--	6.0E-02
			Trichloroethene	--	2.4E-07	--	2.4E-07	Trichloroethene	CNS	--	2.2E-03	--	2.2E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.2E-03	--	1.2E-03
			(Total)	--	3.9E-06	--	3.9E-06	(Total)		--	8.1E-02	--	8.1E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.1E-03	--	2.1E-03	Benzene	Blood	--	1.3E+01	--	1.3E+01
			Methylene Chloride	--	3.7E-07	--	3.7E-07	Methylene Chloride	Liver	--	9.7E-03	--	9.7E-03
			Toluene	--	--	--	--	Toluene	CNS	--	7.7E-02	--	7.7E-02
			(Total)	--	2.1E-03	--	2.1E-03	(Total)		--	1.3E+01	--	1.3E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	3.7E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.1E-05
Total Risk for Shallow Soil-to-Indoor Air =	3.9E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.1E-02
Total Risk for Deep Soil-to-Indoor Air =	2.1E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	1.3E+01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.24.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	2.0E-06	--	1.7E-07	2.2E-06	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	1.4E-09	--	9.0E-11	1.5E-09	Trichloroethene	Liver	4.5E-04	--	3.6E-05	4.8E-04
			(Total)	2.0E-06	--	1.7E-07	2.2E-06	(Total)		4.5E-04	--	3.6E-05	4.8E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	1.2E-10	--	1.2E-10	Benzo(a)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Trichloroethene	--	1.3E-08	--	1.3E-08	Trichloroethene	CNS	--	1.6E-04	--	1.6E-04
			(Total)	--	1.3E-08	--	1.3E-08	(Total)		--	1.6E-04	--	1.6E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	8.9E-04	--	8.9E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	3.4E-04	--	3.4E-04
			Benzene	--	2.0E-05	--	2.0E-05	Benzene	Blood	--	1.7E-01	--	1.7E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.1E-02	--	2.1E-02
			Tetrachloroethene	--	9.5E-06	--	9.5E-06	Tetrachloroethene	Liver/Kidney	--	6.8E-01	--	6.8E-01
			Trichloroethene	--	1.9E-06	--	1.9E-06	Trichloroethene	CNS	--	2.4E-02	--	2.4E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.4E-02	--	1.4E-02
			(Total)	--	3.1E-05	--	3.1E-05	(Total)		--	9.1E-01	--	9.1E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.7E-02	--	1.7E-02	Benzene	Blood	--	1.5E+02	--	1.5E+02
			Methylene Chloride	--	2.9E-06	--	2.9E-06	Methylene Chloride	Liver	--	1.1E-01	--	1.1E-01
			Toluene	--	--	--	--	Toluene	CNS	--	8.7E-01	--	8.7E-01
			(Total)	--	1.7E-02	--	1.7E-02	(Total)		--	1.5E+02	--	1.5E+02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	6.5E-04
Total Risk for Shallow Soil-to-Indoor Air =	3.1E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.1E-01
Total Risk for Deep Soil-to-Indoor Air =	1.7E-02	Total Hazard Index for Deep Soil-to-Indoor Air =	1.5E+02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-66	**EAPC No.:** 25

CT Exposure Scenario

TABLE 7.25.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.7E-07	mg/m^3	3.7E-07	mg/m^3	M	3.6E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-05
	Carbon Tetrachloride	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.1E-02	mg/kg-day	4.0E-02	mg/m3	1.4E-05
	Chloroform	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	2.6E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.1E-06
	Tetrachloroethene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	7.6E-08	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.25.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-66
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	1.6E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.5E-03
	Benzene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	6.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.0E-02
	Cyclohexane	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	7.9E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.6E-04
	Ethylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	2.8E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.9E-03
	Methyl Ethyl Ketone	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.8E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	1.3E-03
	Methylene Chloride	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	4.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.9E-03
	Styrene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.4E-03
	Tetrachloroethene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	2.6E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.6E-02
	Toluene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	3.7E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.3E-02
	Trichloroethene	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	2.0E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-03
	Xylenes	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	7.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.25.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-66
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	8.6E-07	mg/m^3	8.6E-07	mg/m^3	M	4.1E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.4E-04
	Carbon Tetrachloride	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	1.8E-06	mg/kg-day	1.1E-02	mg/kg-day	4.0E-02	mg/m3	1.6E-04
	Chloroform	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	3.0E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.5E-05
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	8.5E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.5E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.25.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.7E-07	mg/m^3	3.7E-07	mg/m^3	M	3.4E-09	mg/kg-day	--	--	--
	Carbon Tetrachloride	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	1.5E-08	mg/kg-day	1.5E-01	$mg/kg\text{-}day^{-1}$	2.2E-09
	Chloroform	2.7E-06	mg/m^3	2.7E-06	mg/m^3	M	2.5E-08	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.7E-10
	Tetrachloroethene	7.7E-07	mg/m^3	7.7E-07	mg/m^3	M	7.2E-09	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-10
										Total Risk Across All Exposure Routes/Pathways	2.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.25.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	Benzene	7.0E-03	mg/m^3	7.0E-03	mg/m^3	M	6.5E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.5E-06
	Cyclohexane	8.0E-03	mg/m^3	8.0E-03	mg/m^3	M	7.5E-05	mg/kg-day	--	--	--
	Ethylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	2.7E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.7E-04	mg/kg-day	--	--	--
	Methylene Chloride	4.5E-03	mg/m^3	4.5E-03	mg/m^3	M	4.2E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.5E-07
	Styrene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	2.3E-04	mg/kg-day	--	--	--
	Tetrachloroethene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	2.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.2E-07
	Toluene	3.8E-02	mg/m^3	3.8E-02	mg/m^3	M	3.5E-04	mg/kg-day	--	--	--
	Trichloroethene	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.9E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.3E-07
	Xylenes	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	6.6E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.25.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	8.6E-07	mg/m^3	8.6E-07	mg/m^3	M	2.7E-08	mg/kg-day	--	--	--
	Carbon Tetrachloride	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	1.2E-07	mg/kg-day	1.5E-01	$mg/kg\text{-}day^{-1}$	1.8E-08
	Chloroform	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	2.0E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.8E-09
	Tetrachloroethene	1.8E-06	mg/m^3	1.8E-06	mg/m^3	M	5.7E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.2E-09
										Total Risk Across All Exposure Routes/Pathways	2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.25.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-66
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-05	--	2.1E-05
			Carbon Tetrachloride	--	2.2E-09	--	2.2E-09	Carbon Tetrachloride	Developmental	--	1.4E-05	--	1.4E-05
			Chloroform	--	4.7E-10	--	4.7E-10	Chloroform	Kidney	--	3.1E-06	--	3.1E-06
			Tetrachloroethene	--	1.5E-10	--	1.5E-10	Tetrachloroethene	Liver/Kidney	--	7.6E-06	--	7.6E-06
			(Total)	--	2.9E-09	--	2.9E-09	(Total)		--	4.6E-05	--	4.6E-05
Indoor Air	Indoor Air	Workplace Monitored Indoor Air Concentrations	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.5E-03	--	5.5E-03
			Benzene	--	6.5E-06	--	6.5E-06	Benzene	Blood	--	4.0E-02	--	4.0E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.6E-04	--	4.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.9E-03	--	4.9E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	1.3E-03	--	1.3E-03
			Methylene Chloride	--	1.5E-07	--	1.5E-07	Methylene Chloride	Liver	--	3.9E-03	--	3.9E-03
			Styrene	--	--	--	--	Styrene	CNS	--	9.4E-03	--	9.4E-03
			Tetrachloroethene	--	5.2E-07	--	5.2E-07	Tetrachloroethene	Liver/Kidney	--	2.6E-02	--	2.6E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.3E-02	--	4.3E-02
			Trichloroethene	--	1.3E-07	--	1.3E-07	Trichloroethene	CNS	--	1.2E-03	--	1.2E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.5E-02	--	3.5E-02
			(Total)	--	7.3E-06	--	7.3E-06	(Total)		--	1.7E-01	--	1.7E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.9E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.6E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	7.3E-06	Total Hazard Index for Workplace Indoor Air =	1.7E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.25.2.CT

CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-66

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.4E-04	--	2.4E-04
			Carbon Tetrachloride	--	1.8E-08	--	1.8E-08	Carbon Tetrachloride	Developmental	--	1.6E-04	--	1.6E-04
			Chloroform	--	3.8E-09	--	3.8E-09	Chloroform	Kidney	--	3.5E-05	--	3.5E-05
			Tetrachloroethene	--	1.2E-09	--	1.2E-09	Tetrachloroethene	Liver/Kidney	--	8.5E-05	--	8.5E-05
			(Total)	--	2.3E-08	--	2.3E-08	(Total)		--	5.1E-04	--	5.1E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.3E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-67	**EAPC No.:** 26

CT Exposure Scenario

TABLE 7.26.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-67

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	1.9E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.2E-06
	Dichlorobromomethane	2.0E-07	mg/m^3	2.0E-07	mg/m^3	M	1.9E-08	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	9.7E-07
	Tetrachloroethene	9.0E-10	mg/m^3	9.0E-10	mg/m^3	M	8.9E-11	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.9E-09
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.26.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-67
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Chloroform	4.4E-06	mg/m^3	4.4E-06	mg/m^3	M	2.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.4E-05
	Dichlorobromomethane	4.6E-07	mg/m^3	4.6E-07	mg/m^3	M	2.2E-07	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	1.1E-05
	Tetrachloroethene	2.1E-09	mg/m^3	2.1E-09	mg/m^3	M	1.0E-09	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E-07
												Total Hazard Index Across All Exposure Routes/Pathways	3.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.26.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-67

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	1.9E-06	mg/m^3	1.9E-06	mg/m^3	M	1.8E-08	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.3E-10
	Dichlorobromomethane	2.0E-07	mg/m^3	2.0E-07	mg/m^3	M	1.8E-09	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	2.4E-10
	Tetrachloroethene	9.0E-10	mg/m^3	9.0E-10	mg/m^3	M	8.4E-12	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.8E-13
										Total Risk Across All Exposure Routes/Pathways	5.7E-10

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.26.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-67

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Chloroform	4.4E-06	mg/m^3	4.4E-06	mg/m^3	M	1.4E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.7E-09
	Dichlorobromomethane	4.6E-07	mg/m^3	4.6E-07	mg/m^3	M	1.5E-08	mg/kg-day	1.3E-01	$mg/kg\text{-}day^{-1}$	1.9E-09
	Tetrachloroethene	2.1E-09	mg/m^3	2.1E-09	mg/m^3	M	6.7E-11	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-12
										Total Risk Across All Exposure Routes/Pathways	4.6E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.26.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-67
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	3.3E-10	--	3.3E-10	Chloroform	Kidney	--	2.2E-06	--	2.2E-06
			Dichlorobromomethane	--	2.4E-10	--	2.4E-10	Dichlorobromomethane	Kidney	--	9.7E-07	--	9.7E-07
			Tetrachloroethene	--	1.8E-13	--	1.8E-13	Tetrachloroethene	Liver/Kidney	--	8.9E-09	--	8.9E-09
			(Total)	--	5.7E-10	--	5.7E-10	(Total)		--	3.2E-06	--	3.2E-06

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.7E-10	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E-06
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.26.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-67
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Chloroform	--	2.7E-09	--	2.7E-09	Chloroform	Kidney	--	2.4E-05	--	2.4E-05
			Dichlorobromomethane	--	1.9E-09	--	1.9E-09	Dichlorobromomethane	Kidney	--	1.1E-05	--	1.1E-05
			Tetrachloroethene	--	1.4E-12	--	1.4E-12	Tetrachloroethene	Liver/Kidney	--	1.0E-07	--	1.0E-07
			(Total)	--	4.6E-09	--	4.6E-09	(Total)		--	3.5E-05	--	3.5E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.6E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.5E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-68	**EAPC No.:** 27

CT Exposure Scenario

No COPCs were selected; therefore, no risks were calculated

Parcel: 7351-34-69	**EAPC No.:** 28

CT Exposure Scenario

TABLE 7.28.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	4.0E-06	mg/kg-day	8.0E-05	mg/kg-day	5.1E-02
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	5.2E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	8.0E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	7.1E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	7.9E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.4E-08	mg/kg-day	--	--	--
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	3.9E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	9.8E-05
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.2E-09	mg/kg-day	4.0E-03	mg/kg-day	1.1E-06
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	3.5E-07	mg/kg-day	4.0E-02	mg/kg-day	8.7E-06
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	6.0E-07	mg/kg-day	4.0E-02	mg/kg-day	1.5E-05
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	3.9E-09	mg/kg-day	1.0E-02	mg/kg-day	3.9E-07
	(Total)										5.1E-02

TABLE 7.28.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	2.3E-08	mg/kg-day	8.0E-05	mg/kg-day	2.9E-04
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	5.8E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	5.2E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	5.8E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.7E-09	mg/kg-day	--	--	--
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.7E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	2.9E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	3.0E-09	mg/kg-day	--	--	--
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.4E-10	mg/kg-day	4.0E-03	mg/kg-day	6.0E-08
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	2.0E-08	mg/kg-day	4.0E-02	mg/kg-day	4.9E-07
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	3.4E-08	mg/kg-day	4.0E-02	mg/kg-day	8.5E-07
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	2.2E-10	mg/kg-day	1.0E-02	mg/kg-day	2.2E-08
	(Total)										2.9E-04
										Total Hazard Index Across All Exposure Routes/Pathways	5.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Thallium	8.8E+00	mg/kg	1.3E-08	mg/m^3	R	1.3E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	2-Methylnaphthalene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	1.7E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	6.5E-08
	Benzo(a)anthracene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	2.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	2.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	2.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	2.1E-11	mg/kg-day	--	--	--	--	--
	Chrysene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	3.0E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	1.3E-10	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	1.3E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	4.3E+00	mg/kg	6.4E-09	mg/m^3	R	6.3E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.5E-07
	VOCs												
	Benzene	9.2E-03	mg/kg	1.7E-06	mg/m^3	R	1.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.9E-06
	n-Butylbenzene	7.6E-01	mg/kg	3.5E-05	mg/m^3	R	3.5E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	8.7E-05
	sec-Butylbenzene	1.3E+00	mg/kg	1.0E-04	mg/m^3	R	1.0E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.6E-04
	Tetrachloroethene	8.5E-03	mg/kg	1.7E-06	mg/m^3	R	1.7E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.5E-04
	n-Butylbenzene	9.5E-04	mg/m^3	9.5E-04	mg/m^3	M	9.4E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.3E-03
	sec-Butylbenzene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	4.8E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.2E-04
	Cyclohexane	9.7E-04	mg/m^3	9.7E-04	mg/m^3	M	9.6E-05	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	5.6E-05
	Ethylbenzene	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	3.3E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.9E-05
	Isopropylbenzene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	5.7E-04	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	5.1E-03
	Naphthalene	6.7E-07	mg/m^3	6.7E-07	mg/m^3	M	6.6E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.6E-05
	Styrene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	5.1E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.0E-05
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-03
	Toluene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.0E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-04
	Xylenes	7.1E-05	mg/m^3	7.1E-05	mg/m^3	M	7.0E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.5E-05
												Total Hazard Index Across All Exposure Routes/Pathways	9.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.5E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.3E-03
	Benzene	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-02
	Chloroform	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.0E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-03
	Cyclohexane	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	7.4E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.3E-04
	Ethylbenzene	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	3.7E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.6E-04
	Methyl Ethyl Ketone	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.2E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	8.5E-04
	Methylene Chloride	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.6E-03
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.3E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	8.8E-04
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	3.2E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-01
	Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	2.2E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.6E-02
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.3E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	7.6E-04
	Xylenes	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.4E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	4.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	5.6E-05	mg/kg-day	8.0E-05	mg/kg-day	7.1E-01
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	7.2E-06	mg/kg-day	2.0E-02	mg/kg-day	3.6E-04
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.1E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.8E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.1E-06	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	8.9E-07	mg/kg-day	--	--	--
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	5.5E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	5.7E-07	mg/kg-day	--	--	--
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	2.7E-05	mg/kg-day	2.0E-02	mg/kg-day	1.4E-03
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	5.9E-08	mg/kg-day	4.0E-03	mg/kg-day	1.5E-05
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	4.9E-06	mg/kg-day	4.0E-02	mg/kg-day	1.2E-04
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	8.4E-06	mg/kg-day	4.0E-02	mg/kg-day	2.1E-04
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06
	(Total)										7.1E-01

TABLE 7.28.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Dermal	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	7.5E-07	mg/kg-day	2.0E-02	mg/kg-day	3.8E-05
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	9.2E-08	mg/kg-day	--	--	--
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	5.7E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	6.0E-08	mg/kg-day	--	--	--
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	2.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.7E-09	mg/kg-day	4.0E-03	mg/kg-day	1.2E-06
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	3.9E-07	mg/kg-day	4.0E-02	mg/kg-day	9.7E-06
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	6.8E-07	mg/kg-day	4.0E-02	mg/kg-day	1.7E-05
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	4.3E-09	mg/kg-day	1.0E-02	mg/kg-day	4.3E-07
	(Total)										5.8E-03
										Total Hazard Index Across All Exposure Routes/Pathways	7.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Thallium	8.8E+00	mg/kg	1.3E-08	mg/m^3	R	6.3E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	2-Methylnaphthalene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	8.0E-10	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.1E-07
	Benzo(a)anthracene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	1.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	9.9E-11	mg/kg-day	--	--	--	--	--
	Chrysene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	1.3E-10	mg/m^3	R	6.1E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	6.4E-11	mg/kg-day	--	--	--	--	--
	Naphthalene*	4.3E+00	mg/kg	6.4E-09	mg/m^3	R	3.0E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.2E-06
	VOCs												
	Benzene	9.2E-03	mg/kg	1.6E-06	mg/m^3	R	7.4E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E-05
	n-Butylbenzene	7.6E-01	mg/kg	3.2E-05	mg/m^3	R	1.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	3.8E-04
	sec-Butylbenzene	1.3E+00	mg/kg	9.6E-05	mg/m^3	R	4.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.1E-03
	Tetrachloroethene	8.5E-03	mg/kg	1.6E-06	mg/m^3	R	7.4E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	1.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.3E-03
	n-Butylbenzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.1E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.6E-02
	sec-Butylbenzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	5.4E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-03
	Cyclohexane	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	6.3E-04
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	3.8E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.6E-04
	Isopropylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	6.4E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	5.7E-02
	Naphthalene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	7.4E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.9E-04
	Styrene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	5.7E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.2E-04
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E-02
	Toluene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.1E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-03
	Xylenes	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	7.9E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.28.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	3.8E-07	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	4.9E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	7.5E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.0E-09
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.6E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	8.0E-08
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	7.5E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.0E-09
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.2E-09
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	8.6E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.0E-09
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	3.7E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.5E-08
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	3.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.7E-09
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	1.8E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	4.0E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	4.0E-11
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	3.3E-08	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	5.7E-08	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	3.7E-10	mg/kg-day	5.4E-01	mg/kg-day^{-1}	2.0E-10
	(Total)										1.3E-07

TABLE 8.28.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	2.2E-09	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	3.6E-09	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	5.5E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.6E-10
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.9E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.9E-09
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	5.5E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.6E-10
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.3E-10
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.3E-10	mg/kg-day	1.2E-01	$mg/kg\text{-}day^{-1}$	7.6E-11
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	2.7E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.1E-09
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	2.8E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.4E-10
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	1.0E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.2E-11	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-12
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	1.9E-09	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	3.2E-09	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	2.1E-11	mg/kg-day	5.4E-01	$mg/kg\text{-}day^{-1}$	1.1E-11
	(Total)										9.2E-09
										Total Risk Across All Exposure Routes/Pathways	1.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Thallium	8.8E+00	mg/kg	1.3E-08	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	1.6E-11	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	2.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.5E-13
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	2.2E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.4E-12
	Benzo(b)fluoranthene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	2.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	9.4E-13
	Benzo(k)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	1.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.6E-13
	Chrysene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	2.8E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.1E-13
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	1.3E-10	mg/m^3	R	1.2E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.9E-12
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	1.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.9E-13
	Naphthalene*	4.3E+00	mg/kg	6.4E-09	mg/m^3	R	6.0E-11	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	1.7E-06	mg/m^3	R	1.6E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-09
	n-Butylbenzene	7.6E-01	mg/kg	3.5E-05	mg/m^3	R	3.3E-07	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	1.0E-04	mg/m^3	R	9.8E-07	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	1.7E-06	mg/m^3	R	1.6E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.4E-10
										Total Risk Across All Exposure Routes/Pathways	1.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-07
	n-Butylbenzene	9.5E-04	mg/m^3	9.5E-04	mg/m^3	M	8.9E-06	mg/kg-day	--	--	--
	sec-Butylbenzene	4.9E-05	mg/m^3	4.9E-05	mg/m^3	M	4.6E-07	mg/kg-day	--	--	--
	Cyclohexane	9.7E-04	mg/m^3	9.7E-04	mg/m^3	M	9.1E-06	mg/kg-day	--	--	--
	Ethylbenzene	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	3.2E-06	mg/kg-day	--	--	--
	Isopropylbenzene	5.7E-03	mg/m^3	5.7E-03	mg/m^3	M	5.4E-05	mg/kg-day	--	--	--
	Naphthalene	6.7E-07	mg/m^3	6.7E-07	mg/m^3	M	6.2E-09	mg/kg-day	--	--	--
	Styrene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	4.8E-07	mg/kg-day	--	--	--
	Tetrachloroethene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-08
	Toluene	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	9.6E-07	mg/kg-day	--	--	--
	Xylenes	7.1E-05	mg/m^3	7.1E-05	mg/m^3	M	6.6E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (WORKPLACE): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Indoor Air
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
	Benzene	5.0E-03	mg/m^3	5.0E-03	mg/m^3	M	4.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.7E-06
	Chloroform	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	9.5E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.8E-07
	Cyclohexane	7.5E-03	mg/m^3	7.5E-03	mg/m^3	M	7.0E-05	mg/kg-day	--	--	--
	Ethylbenzene	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	3.5E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	1.2E-02	mg/m^3	1.2E-02	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Methylene Chloride	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	2.8E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	9.8E-08
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	3.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.4E-06
	Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	2.1E-04	mg/kg-day	--	--	--
	Trichloroethene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.2E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.6E-08
	Xylenes	1.5E-02	mg/m^3	1.5E-02	mg/m^3	M	1.4E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	2.2E-06	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.8E-07	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	4.4E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.2E-08
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.9E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.6E-07
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	4.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.2E-08
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	3.5E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.2E-08
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.0E-08	mg/kg-day	1.2E-01	mg/kg-day^{-1}	6.0E-09
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	2.1E-08	mg/kg-day	4.1E+00	mg/kg-day^{-1}	8.8E-08
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	2.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.7E-08
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	1.1E-06	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	2.3E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	2.3E-10
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	3.3E-07	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	2.1E-09	mg/kg-day	5.4E-01	mg/kg-day^{-1}	1.2E-09
	(Total)										7.3E-07

TABLE 8.28.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Dermal	**Inorganics**										
	Thallium	8.8E+00	mg/kg	8.8E+00	mg/kg	M	1.5E-08	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.1E+00	mg/kg	M	2.4E-08	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	3.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.5E-09
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.3E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.0E-08
	Benzo(b)fluoranthene	1.7E-01	mg/kg	1.7E-01	mg/kg	M	3.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.5E-09
	Benzo(k)fluoranthene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	3.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.6E-09
	Chrysene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	4.3E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	5.2E-10
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	8.5E-02	mg/kg	M	1.8E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	7.5E-09
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	9.0E-02	mg/kg	M	1.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.3E-09
	Naphthalene*	4.3E+00	mg/kg	4.3E+00	mg/kg	M	7.1E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	9.2E-03	mg/kg	M	1.5E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.5E-11
	n-Butylbenzene	7.6E-01	mg/kg	7.6E-01	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	8.5E-03	mg/kg	M	1.4E-10	mg/kg-day	5.4E-01	mg/kg-day^{-1}	7.6E-11
	(Total)										6.3E-08
										Total Risk Across All Exposure Routes/Pathways	8.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Thallium	8.8E+00	mg/kg	1.3E-08	mg/m^3	R	4.2E-10	mg/kg-day	--	--	--
	SVOCs										
	2-Methylnaphthalene	1.1E+00	mg/kg	1.7E-09	mg/m^3	R	5.4E-11	mg/kg-day	--	--	--
	Benzo(a)anthracene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	8.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.2E-12
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	7.3E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.9E-11
	Benzo(b)fluoranthene	1.7E-01	mg/kg	2.6E-10	mg/m^3	R	8.2E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.2E-12
	Benzo(k)fluoranthene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	6.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.6E-12
	Chrysene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	9.5E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	3.7E-13
	Dibenzo(a,h)anthracene	8.5E-02	mg/kg	1.3E-10	mg/m^3	R	4.1E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.7E-11
	Indeno(1,2,3-cd)pyrene	9.0E-02	mg/kg	1.3E-10	mg/m^3	R	4.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-12
	Naphthalene*	4.3E+00	mg/kg	6.4E-09	mg/m^3	R	2.0E-10	mg/kg-day	--	--	--
	VOCs										
	Benzene	9.2E-03	mg/kg	1.6E-06	mg/m^3	R	4.9E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.9E-09
	n-Butylbenzene	7.6E-01	mg/kg	3.2E-05	mg/m^3	R	1.0E-06	mg/kg-day	--	--	--
	sec-Butylbenzene	1.3E+00	mg/kg	9.6E-05	mg/m^3	R	3.0E-06	mg/kg-day	--	--	--
	Tetrachloroethene	8.5E-03	mg/kg	1.6E-06	mg/m^3	R	5.0E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.0E-09
										Total Risk Across All Exposure Routes/Pathways	6.0E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	8.4E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.4E-07
	n-Butylbenzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	7.1E-05	mg/kg-day	--	--	--
	sec-Butylbenzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	3.6E-06	mg/kg-day	--	--	--
	Cyclohexane	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	7.2E-05	mg/kg-day	--	--	--
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	2.5E-05	mg/kg-day	--	--	--
	Isopropylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	4.3E-04	mg/kg-day	--	--	--
	Naphthalene	1.6E-06	mg/m^3	1.6E-06	mg/m^3	M	5.0E-08	mg/kg-day	--	--	--
	Styrene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	3.8E-06	mg/kg-day	--	--	--
	Tetrachloroethene	2.9E-04	mg/m^3	2.9E-04	mg/m^3	M	9.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-07
	Toluene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	7.6E-06	mg/kg-day	--	--	--
	Xylenes	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	5.3E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.28.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	NOAEL	5.1E-02	--	2.9E-04	5.1E-02
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	2.6E-05	--	1.9E-06	2.8E-05
			Benzo(a)anthracene	9.0E-09	--	6.6E-10	9.7E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	8.0E-08	--	5.9E-09	8.6E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	9.0E-09	--	6.6E-10	9.6E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	7.2E-09	--	5.3E-10	7.7E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.0E-09	--	7.6E-11	1.1E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.5E-08	--	1.1E-09	1.6E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.7E-09	--	3.4E-10	5.0E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	9.8E-05	--	5.5E-06	1.0E-04
			VOCs					**VOCs**					
			Benzene	4.0E-11	--	2.2E-12	4.2E-11	Benzene	Blood	1.1E-06	--	6.0E-08	1.1E-06
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	8.7E-06	--	4.9E-07	9.2E-06
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	1.5E-05	--	8.5E-07	1.6E-05
			Tetrachloroethene	2.0E-10	--	1.1E-11	2.1E-10	Tetrachloroethene	Liver	3.9E-07	--	2.2E-08	4.1E-07
			(Total)	1.3E-07	--	9.2E-09	1.4E-07	(Total)		5.1E-02	--	2.9E-04	5.1E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	6.5E-08	--	6.5E-08
			Benzo(a)anthracene	--	9.5E-13	--	9.5E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	8.4E-12	--	8.4E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	9.4E-13	--	9.4E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	7.6E-13	--	7.6E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.1E-13	--	1.1E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.9E-12	--	4.9E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	4.9E-13	--	4.9E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	2.5E-07	--	2.5E-07
			VOCs					**VOCs**					
			Benzene	--	1.6E-09	--	1.6E-09	Benzene	Blood	--	9.9E-06	--	9.9E-06
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	8.7E-05	--	8.7E-05
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	2.6E-04	--	2.6E-04
			Tetrachloroethene	--	3.4E-10	--	3.4E-10	Tetrachloroethene	Liver/Kidney	--	1.7E-05	--	1.7E-05
			(Total)	--	1.9E-09	--	1.9E-09	(Total)		--	3.7E-04	--	3.7E-04

TABLE 9.28.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	1.1E-07	--	1.1E-07	Benzene	Blood	--	6.5E-04	--	6.5E-04
		Using the J&E Model	n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	2.3E-03	--	2.3E-03
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.2E-04	--	1.2E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	5.6E-05	--	5.6E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.9E-05	--	5.9E-05
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	5.1E-03	--	5.1E-03
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.6E-05	--	2.6E-05
			Styrene	--	--	--	--	Styrene	CNS	--	2.0E-05	--	2.0E-05
			Tetrachloroethene	--	2.4E-08	--	2.4E-08	Tetrachloroethene	Liver/Kidney	--	1.2E-03	--	1.2E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.2E-04	--	1.2E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.5E-05	--	3.5E-05
			(Total)	--	1.3E-07	--	1.3E-07	(Total)		--	9.8E-03	--	9.8E-03
Indoor Air	Indoor Air	Workplace Monitored	**VOCs**					**VOCs**					
		Indoor Air Concentrations	1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.3E-03	--	5.3E-03
			Benzene	--	4.7E-06	--	4.7E-06	Benzene	Blood	--	2.9E-02	--	2.9E-02
			Chloroform	--	1.8E-07	--	1.8E-07	Chloroform	Kidney	--	1.2E-03	--	1.2E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.3E-04	--	4.3E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.6E-04	--	6.6E-04
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	8.5E-04	--	8.5E-04
			Methylene Chloride	--	9.8E-08	--	9.8E-08	Methylene Chloride	Liver	--	2.6E-03	--	2.6E-03
			Styrene	--	--	--	--	Styrene	CNS	--	8.8E-04	--	8.8E-04
			Tetrachloroethene	--	6.4E-06	--	6.4E-06	Tetrachloroethene	Liver/Kidney	--	3.2E-01	--	3.2E-01
			Toluene	--	--	--	--	Toluene	CNS	--	2.6E-02	--	2.6E-02
			Trichloroethene	--	8.6E-08	--	8.6E-08	Trichloroethene	CNS	--	7.6E-04	--	7.6E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.2E-03	--	7.2E-03
			(Total)	--	1.1E-05	--	1.1E-05	(Total)		--	4.0E-01	--	4.0E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.4E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	5.1E-02
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.8E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	1.1E-05	Total Hazard Index for Workplace Indoor Air =	4.0E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.28.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	NOAEL	7.1E-01	--	5.6E-03	7.1E-01
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Weight	3.6E-04	--	3.8E-05	4.0E-04
			Benzo(a)anthracene	5.2E-08	--	4.5E-09	5.7E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.6E-07	--	4.0E-08	5.0E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	5.2E-08	--	4.5E-09	5.7E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	4.2E-08	--	3.6E-09	4.5E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	6.0E-09	--	5.2E-10	6.5E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	8.8E-08	--	7.5E-09	9.5E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.7E-08	--	2.3E-09	2.9E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Weight	1.4E-03	--	1.1E-04	1.5E-03
			VOCs					**VOCs**					
			Benzene	2.3E-10	--	1.5E-11	2.5E-10	Benzene	Blood	1.5E-05	--	1.2E-06	1.6E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	1.2E-04	--	9.7E-06	1.3E-04
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	2.1E-04	--	1.7E-05	2.3E-04
			Tetrachloroethene	1.2E-09	--	7.6E-11	1.2E-09	Tetrachloroethene	Liver	5.4E-06	--	4.3E-07	5.9E-06
			(Total)	7.3E-07	--	6.3E-08	8.0E-07	(Total)		7.1E-01	--	5.8E-03	7.1E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Thallium	--	--	--	--	Thallium	--	--	--	--	--
			SVOCs					**SVOCs**					
			2-Methylnaphthalene	--	--	--	--	2-Methylnaphthalene	Respiratory	--	3.1E-07	--	3.1E-07
			Benzo(a)anthracene	--	3.2E-12	--	3.2E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.9E-11	--	2.9E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.2E-12	--	3.2E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.6E-12	--	2.6E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	3.7E-13	--	3.7E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.7E-11	--	1.7E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.7E-12	--	1.7E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			Naphthalene*	--	--	--	--	Naphthalene*	Nasal Effects	--	1.2E-06	--	1.2E-06
			VOCs					**VOCs**					
			Benzene	--	4.9E-09	--	4.9E-09	Benzene	Blood	--	4.3E-05	--	4.3E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	3.8E-04	--	3.8E-04
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.1E-03	--	1.1E-03
			Tetrachloroethene	--	1.0E-09	--	1.0E-09	Tetrachloroethene	Liver/Kidney	--	7.4E-05	--	7.4E-05
			(Total)	--	6.0E-09	--	6.0E-09	(Total)		--	1.6E-03	--	1.6E-03

TABLE 9.28.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Predicted Shallow Soil to	**VOCs**					**VOCs**					
		Indoor Air Concentrations	Benzene	--	8.4E-07	--	8.4E-07	Benzene	Blood	--	7.3E-03	--	7.3E-03
		Using the J&E Model	n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	2.6E-02	--	2.6E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-03	--	1.4E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	6.3E-04	--	6.3E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.6E-04	--	6.6E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	5.7E-02	--	5.7E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.9E-04	--	2.9E-04
			Styrene	--	--	--	--	Styrene	CNS	--	2.2E-04	--	2.2E-04
			Tetrachloroethene	--	1.9E-07	--	1.9E-07	Tetrachloroethene	Liver/Kidney	--	1.4E-02	--	1.4E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-03	--	1.3E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.9E-04	--	3.9E-04
			(Total)	--	1.0E-06	--	1.0E-06	(Total)		--	1.1E-01	--	1.1E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.0E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	7.2E-01
Total Risk for Shallow Soil-to-Indoor Air =	1.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-70	**EAPC No.:** 29

CT Exposure Scenario

TABLE 7.29.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	2.0E+01	mg/kg	2.0E+01	mg/kg	M	9.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Pesticides/PCBs										
	4,4'-DDE	1.6E+00	mg/kg	1.6E+00	mg/kg	M	7.5E-07	mg/kg-day	--	--	--
	4,4'-DDT	4.9E+00	mg/kg	4.9E+00	mg/kg	M	2.2E-06	mg/kg-day	5.0E-04	mg/kg-day	4.5E-03
	SVOCs										
	Benzo(a)anthracene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	8.4E-08	mg/kg-day	--	--	--
	(Total)										4.0E-02
Dermal	**Inorganics**										
	Arsenic	2.0E+01	mg/kg	2.0E+01	mg/kg	M	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.2E-04
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.7E-09	mg/kg-day	1.0E-03	mg/kg-day	1.7E-06
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.1E-06	mg/kg-day	1.4E-01	mg/kg-day	8.0E-06
	Pesticides/PCBs										
	4,4'-DDE	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	4,4'-DDT	4.9E+00	mg/kg	4.9E+00	mg/kg	M	3.8E-08	mg/kg-day	5.0E-04	mg/kg-day	7.5E-05
	SVOCs										
	Benzo(a)anthracene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	6.2E-09	mg/kg-day	--	--	--
	(Total)										6.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	4.0E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	2.0E+01	mg/kg	3.0E-08	mg/m^3	R	3.0E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	3.5E-04
	Cadmium	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Manganese	4.4E+02	mg/kg	6.5E-07	mg/m^3	R	6.5E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.1E-03
	Pesticides/PCBs												
	4,4'-DDE	1.6E+00	mg/kg	2.5E-09	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	4.9E+00	mg/kg	7.3E-09	mg/m^3	R	7.2E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.8E-01	mg/kg	2.8E-10	mg/m^3	R	2.7E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	2.1E-04	mg/kg-day	1.4E-01	mg/kg-day	1.5E-03
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.7E-07	mg/kg-day	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.4E-06	mg/kg-day	5.0E-04	mg/kg-day	2.8E-03
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.7E-08	mg/kg-day	--	--	--
	(Total)										2.8E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.9E-09	mg/kg-day	1.0E-03	mg/kg-day	1.9E-06
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	1.2E-06	mg/kg-day	1.4E-01	mg/kg-day	8.6E-06
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	7.9E-09	mg/kg-day	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	2.4E-08	mg/kg-day	5.0E-04	mg/kg-day	4.7E-05
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.9E-09	mg/kg-day	--	--	--
	(Total)										4.1E-04
										Total Hazard Index Across All Exposure Routes/Pathways	2.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.0E-08	mg/m^3	R	2.0E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.3E-04
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.1E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.9E-04
	Manganese	4.6E+02	mg/kg	7.0E-07	mg/m^3	R	6.9E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.2E-03
	Pesticides/PCBs												
	4,4'-DDE	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	1.5E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	4.6E-09	mg/m^3	R	4.5E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	9.7E-04	mg/m^3	9.7E-04	mg/m^3	M	9.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	4.7E-05	mg/kg-day	1.0E-03	mg/kg-day	4.7E-02
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	3.0E-03	mg/kg-day	1.4E-01	mg/kg-day	2.1E-02
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	6.5E-06	mg/kg-day	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.9E-05	mg/kg-day	5.0E-04	mg/kg-day	3.9E-02
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.4E-07	mg/kg-day	--	--	--
	(Total)										3.9E-01
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	3.7E-08	mg/kg-day	1.0E-03	mg/kg-day	3.7E-05
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	2.4E-05	mg/kg-day	1.4E-01	mg/kg-day	1.7E-04
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.6E-07	mg/kg-day	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	4.7E-07	mg/kg-day	5.0E-04	mg/kg-day	9.3E-04
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.8E-08	mg/kg-day	--	--	--
	(Total)										8.0E-03
										Total Hazard Index Across All Exposure Routes/Pathways	4.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.0E-08	mg/m^3	R	9.6E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.1E-03
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	5.2E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	9.1E-04
	Manganese	4.6E+02	mg/kg	7.0E-07	mg/m^3	R	3.3E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	5.8E-03
	Pesticides/PCBs												
	4,4'-DDE	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	7.2E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	3.0E+00	mg/kg	4.6E-09	mg/m^3	R	2.2E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	1.0E-10	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	7.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.29.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	2.0E+01	mg/kg	2.0E+01	mg/kg	M	8.7E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.3E-06
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	2.9E-07	mg/kg-day	--	--	--
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.6E+00	mg/kg	1.6E+00	mg/kg	M	7.1E-08	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.4E-08
	4,4'-DDT	4.9E+00	mg/kg	4.9E+00	mg/kg	M	2.1E-07	mg/kg-day	3.4E-01	mg/kg-day^{-1}	7.1E-08
	SVOCs										
	Benzo(a)anthracene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	7.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.5E-09
	(Total)										1.4E-06
Dermal	**Inorganics**										
	Arsenic	2.0E+01	mg/kg	2.0E+01	mg/kg	M	1.5E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	2.2E-08
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.6E-10	mg/kg-day	--	--	--
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.2E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	4.1E-10
	4,4'-DDT	4.9E+00	mg/kg	4.9E+00	mg/kg	M	3.6E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.2E-09
	SVOCs										
	Benzo(a)anthracene	1.8E-01	mg/kg	1.8E-01	mg/kg	M	5.8E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.0E-10
	(Total)										2.4E-08
										Total Risk Across All Exposure Routes/Pathways	1.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	2.0E+01	mg/kg	3.0E-08	mg/m^3	R	2.8E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.4E-09
	Cadmium	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	9.4E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Manganese	4.4E+02	mg/kg	6.5E-07	mg/m^3	R	6.1E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.6E+00	mg/kg	2.5E-09	mg/m^3	R	2.3E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	7.8E-12
	4,4'-DDT	4.9E+00	mg/kg	7.3E-09	mg/m^3	R	6.8E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
	SVOCs										
	Benzo(a)anthracene	1.8E-01	mg/kg	2.8E-10	mg/m^3	R	2.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-12
										Total Risk Across All Exposure Routes/Pathways	4.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	5.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	8.7E-07
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	2.0E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.4E-08	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.5E-08
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.3E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	4.5E-08
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.3E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	7.6E-09
	(Total)										9.4E-07
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	9.9E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-08
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.8E-10	mg/kg-day	--	--	--
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	7.5E-10	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.5E-10
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	2.2E-09	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	7.6E-10
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.7E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.6E-10
	(Total)										1.6E-08
										Total Risk Across All Exposure Routes/Pathways	9.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.0E-08	mg/m^3	R	1.9E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.3E-09
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	1.0E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.5E-09
	Manganese	4.6E+02	mg/kg	7.0E-07	mg/m^3	R	6.5E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	1.4E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.9E-12
	4,4'-DDT	3.0E+00	mg/kg	4.6E-09	mg/m^3	R	4.3E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.4E-11
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	2.1E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.0E-13
										Total Risk Across All Exposure Routes/Pathways	3.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	9.7E-04	mg/m^3	9.7E-04	mg/m^3	M	9.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.1E-07
										Total Risk Across All Exposure Routes/Pathways	9.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	3.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.1E-06
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.8E-06	mg/kg-day	--	--	--
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	1.2E-04	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.6E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	8.7E-08
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	7.6E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.6E-07
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.7E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.4E-08
	(Total)										5.5E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.7E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.0E-07
	Cadmium	7.3E+00	mg/kg	7.3E+00	mg/kg	M	1.2E-09	mg/kg-day	--	--	--
	Manganese	4.6E+02	mg/kg	4.6E+02	mg/kg	M	7.7E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.0E+00	mg/kg	M	5.1E-09	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.7E-09
	4,4'-DDT	3.0E+00	mg/kg	3.0E+00	mg/kg	M	1.5E-08	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	5.1E-09
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.2E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.8E-09
	(Total)										1.1E-07
										Total Risk Across All Exposure Routes/Pathways	5.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.0E-08	mg/m^3	R	6.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.7E-09
	Cadmium	7.3E+00	mg/kg	1.1E-08	mg/m^3	R	3.5E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	5.2E-09
	Manganese	4.6E+02	mg/kg	7.0E-07	mg/m^3	R	2.2E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDE	1.0E+00	mg/kg	1.5E-09	mg/m^3	R	4.8E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.6E-11
	4,4'-DDT	3.0E+00	mg/kg	4.6E-09	mg/m^3	R	1.4E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.9E-11
	SVOCs										
	Benzo(a)anthracene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	7.0E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.7E-12
										Total Risk Across All Exposure Routes/Pathways	1.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	7.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.2E-06
										Total Risk Across All Exposure Routes/Pathways	7.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.29.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	1.3E-06	--	2.2E-08	1.3E-06	Arsenic	Skin	3.1E-02	--	5.2E-04	3.1E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.7E-06	3.1E-03
			Manganese	--	--	--	--	Manganese	CNS	1.4E-03	--	8.0E-06	1.4E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	2.4E-08	--	4.1E-10	2.4E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	7.1E-08	--	1.2E-09	7.3E-08	4,4'-DDT	Liver	4.5E-03	--	7.5E-05	4.5E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	9.5E-09	--	7.0E-10	1.0E-08	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.4E-06	--	2.4E-08	1.4E-06	(Total)		4.0E-02	--	6.0E-04	4.0E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	3.4E-09	--	3.4E-09	Arsenic	Skin	--	3.5E-04	--	3.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.1E-03	--	1.1E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	7.8E-12	--	7.8E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.3E-11	--	2.3E-11	4,4'-DDT	Liver	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.0E-12	--	1.0E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	4.8E-09	--	4.8E-09	(Total)		--	1.7E-03	--	1.7E-03

TABLE 9.29.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	8.7E-07	--	1.5E-08	8.9E-07	Arsenic	Skin	2.1E-02	--	3.5E-04	2.1E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.4E-03	--	1.9E-06	3.4E-03
			Manganese	--	--	--	--	Manganese	CNS	1.5E-03	--	8.6E-06	1.5E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	1.5E-08	--	2.5E-10	1.5E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	4.5E-08	--	7.6E-10	4.5E-08	4,4'-DDT	Liver	2.8E-03	--	4.7E-05	2.8E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	7.6E-09	--	5.6E-10	8.2E-09	Benzo(a)anthracene	--	--	--	--	--
			(Total)	9.4E-07	--	1.6E-08	9.6E-07	(Total)		2.8E-02	--	4.1E-04	2.9E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.3E-09	--	2.3E-09	Arsenic	Developmental	--	2.3E-04	--	2.3E-04
			Cadmium	--	1.5E-09	--	1.5E-09	Cadmium	Kidney	--	1.9E-04	--	1.9E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.2E-03	--	1.2E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	4.9E-12	--	4.9E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	1.4E-11	--	1.4E-11	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	8.0E-13	--	8.0E-13	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.8E-09	--	3.8E-09	(Total)		--	1.6E-03	--	1.6E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	9.1E-07	--	9.1E-07	Benzene	Blood	--	5.6E-03	--	5.6E-03
			(Total)	--	9.1E-07	--	9.1E-07	(Total)		--	5.6E-03	--	5.6E-03

Total Risk Across Surface Soil =	1.4E-06	Total Hazard Index Across Surface Soil =	4.2E-02
Total Risk Across Shallow Soil (0-15' bgs) =	9.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.0E-02
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	9.1E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	5.6E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.29.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	5.1E-06	--	1.0E-07	5.2E-06	Arsenic	Skin	2.9E-01	--	6.9E-03	2.9E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	4.7E-02	--	3.7E-05	4.7E-02
			Manganese	--	--	--	--	Manganese	CNS	2.1E-02	--	1.7E-04	2.1E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	8.7E-08	--	1.7E-09	8.9E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	2.6E-07	--	5.1E-09	2.6E-07	4,4'-DDT	Liver	3.9E-02	--	9.3E-04	4.0E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.4E-08	--	3.8E-09	4.8E-08	Benzo(a)anthracene	--	--	--	--	--
			(Total)	5.5E-06	--	1.1E-07	5.6E-06	(Total)		3.9E-01	--	8.0E-03	4.0E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	7.7E-09	--	7.7E-09	Arsenic	Developmental	--	1.1E-03	--	1.1E-03
			Cadmium	--	5.2E-09	--	5.2E-09	Cadmium	Kidney	--	9.1E-04	--	9.1E-04
			Manganese	--	--	--	--	Manganese	CNS	--	5.8E-03	--	5.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDE	--	1.6E-11	--	1.6E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	4.9E-11	--	4.9E-11	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.7E-12	--	2.7E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	1.3E-08	--	1.3E-08	(Total)		--	7.8E-03	--	7.8E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	7.2E-06	--	7.2E-06	Benzene	Blood	--	6.3E-02	--	6.3E-02
			(Total)	--	7.2E-06	--	7.2E-06	(Total)		--	6.3E-02	--	6.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.6E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.1E-01
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	7.2E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	6.3E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-72	**EAPC No.:** 30

CT Exposure Scenario

TABLE 7.30.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	3.7E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	2.7E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	8.1E-03	mg/kg	1.2E-11	mg/m^3	R	1.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.0E-06	mg/kg-day	1.0E-03	mg/kg-day	6.0E-03
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	1.7E-04	mg/kg-day	1.4E-01	mg/kg-day	1.2E-03
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	3.1E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	2.3E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	1.9E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	2.5E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	(Total)										7.2E-03
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.4E-09	mg/kg-day	1.0E-03	mg/kg-day	3.4E-06
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	9.8E-07	mg/kg-day	1.4E-01	mg/kg-day	7.0E-06
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	2.3E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.7E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	1.4E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	1.8E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	1.0E-09	mg/kg-day	--	--	--
	(Total)										1.0E-05
										Total Hazard Index Across All Exposure Routes/Pathways	7.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.4E-04
	Manganese	3.8E+02	mg/kg	5.7E-07	mg/m^3	R	5.6E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	9.8E-04
	SVOCs												
	Benzo(a)anthracene	6.9E-02	mg/kg	1.0E-10	mg/m^3	R	1.0E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	7.6E-11	mg/m^3	R	7.5E-12	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	6.1E-11	mg/m^3	R	6.1E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	8.1E-11	mg/m^3	R	8.0E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	4.7E-11	mg/m^3	R	4.6E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Tetrachloroethene	5.7E-06	mg/m^3	5.7E-06	mg/m^3	M	5.6E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.6E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	8.3E-05	mg/kg-day	1.0E-03	mg/kg-day	8.3E-02
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	2.4E-03	mg/kg-day	1.4E-01	mg/kg-day	1.7E-02
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	4.4E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	3.2E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	2.6E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	3.5E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	(Total)										1.0E-01
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.6E-08	mg/kg-day	1.0E-03	mg/kg-day	6.6E-05
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	1.9E-05	mg/kg-day	1.4E-01	mg/kg-day	1.4E-04
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	4.6E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	2.7E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	3.6E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	2.1E-08	mg/kg-day	--	--	--
	(Total)										2.0E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	9.2E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.6E-03
	Manganese	3.8E+02	mg/kg	5.7E-07	mg/m^3	R	2.7E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	4.7E-03
	SVOCs												
	Benzo(a)anthracene	6.9E-02	mg/kg	1.0E-10	mg/m^3	R	4.9E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	5.1E-02	mg/kg	7.6E-11	mg/m^3	R	3.6E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	4.1E-02	mg/kg	6.1E-11	mg/m^3	R	2.9E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	5.4E-02	mg/kg	8.1E-11	mg/m^3	R	3.8E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	4.7E-11	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.30.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Tetrachloroethene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	6.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.30.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	3.5E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.2E-09
	(Total)										4.2E-09
Dermal	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	8.1E-03	mg/kg	M	2.6E-11	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.1E-10
	(Total)										3.1E-10
										Total Risk Across All Exposure Routes/Pathways	4.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	8.1E-03	mg/kg	1.2E-11	mg/m^3	R	1.1E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.4E-13
										Total Risk Across All Exposure Routes/Pathways	4.4E-13

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	5.6E-07	mg/kg-day	--	--	--
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	1.6E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	3.0E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-09
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	2.2E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.6E-08
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	1.8E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-09
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	2.3E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.8E-09
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	1.3E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.5E-09
	(Total)										4.0E-08
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.2E-10	mg/kg-day	--	--	--
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	9.2E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	2.2E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.6E-10
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.6E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.9E-09
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	1.3E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.6E-10
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	1.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-10
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	9.9E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.1E-10
	(Total)										2.9E-09
										Total Risk Across All Exposure Routes/Pathways	4.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.8E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.7E-09
	Manganese	3.8E+02	mg/kg	5.7E-07	mg/m^3	R	5.3E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	1.0E-10	mg/m^3	R	9.6E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-13
	Benzo(a)pyrene	5.1E-02	mg/kg	7.6E-11	mg/m^3	R	7.1E-13	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.8E-12
	Benzo(b)fluoranthene	4.1E-02	mg/kg	6.1E-11	mg/m^3	R	5.7E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-13
	Benzo(k)fluoranthene	5.4E-02	mg/kg	8.1E-11	mg/m^3	R	7.6E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.0E-13
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	4.7E-11	mg/m^3	R	4.4E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.8E-12
										Total Risk Across All Exposure Routes/Pathways	2.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Tetrachloroethene	5.7E-06	mg/m^3	5.7E-06	mg/m^3	M	5.3E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-09
										Total Risk Across All Exposure Routes/Pathways	1.1E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.3E-06	mg/kg-day	--	--	--
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	9.5E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	1.7E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.1E-08
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.3E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.5E-07
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	1.0E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.2E-08
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	1.4E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.6E-08
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	7.8E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.2E-08
	(Total)										2.3E-07
Dermal	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	1.3E+01	mg/kg	M	2.2E-09	mg/kg-day	--	--	--
	Manganese	3.8E+02	mg/kg	3.8E+02	mg/kg	M	6.3E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	6.9E-02	mg/kg	M	1.5E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.8E-09
	Benzo(a)pyrene	5.1E-02	mg/kg	5.1E-02	mg/kg	M	1.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.3E-08
	Benzo(b)fluoranthene	4.1E-02	mg/kg	4.1E-02	mg/kg	M	8.8E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.1E-09
	Benzo(k)fluoranthene	5.4E-02	mg/kg	5.4E-02	mg/kg	M	1.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.4E-09
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	3.1E-02	mg/kg	M	6.7E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.8E-09
	(Total)										2.0E-08
										Total Risk Across All Exposure Routes/Pathways	2.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	6.2E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	9.3E-09
	Manganese	3.8E+02	mg/kg	5.7E-07	mg/m^3	R	1.8E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	6.9E-02	mg/kg	1.0E-10	mg/m^3	R	3.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.3E-12
	Benzo(a)pyrene	5.1E-02	mg/kg	7.6E-11	mg/m^3	R	2.4E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	9.4E-12
	Benzo(b)fluoranthene	4.1E-02	mg/kg	6.1E-11	mg/m^3	R	1.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.6E-13
	Benzo(k)fluoranthene	5.4E-02	mg/kg	8.1E-11	mg/m^3	R	2.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.0E-12
	Dibenzo(a,h)anthracene	3.1E-02	mg/kg	4.7E-11	mg/m^3	R	1.5E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.1E-12
										Total Risk Across All Exposure Routes/Pathways	9.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.30.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-72

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Tetrachloroethene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	4.2E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.8E-09
										Total Risk Across All Exposure Routes/Pathways	8.8E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.30.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-72
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	4.2E-09	--	3.1E-10	4.5E-09	Benzo(a)pyrene	--	--	--	--	--
			(Total)	4.2E-09	--	3.1E-10	4.5E-09	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	4.4E-13	--	4.4E-13	Benzo(a)pyrene	--	--	--	--	--
			(Total)	--	4.4E-13	--	4.4E-13	(Total)		--	--	--	--
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	6.0E-03	--	3.4E-06	6.0E-03
			Manganese	--	--	--	--	Manganese	CNS	1.2E-03	--	7.0E-06	1.2E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	3.5E-09	--	2.6E-10	3.8E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.6E-08	--	1.9E-09	2.8E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.1E-09	--	1.6E-10	2.3E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	2.8E-09	--	2.1E-10	3.0E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	5.5E-09	--	4.1E-10	5.9E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	4.0E-08	--	2.9E-09	4.3E-08	(Total)		7.2E-03	--	1.0E-05	7.2E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.7E-09	--	2.7E-09	Cadmium	Kidney	--	3.4E-04	--	3.4E-04
			Manganese	--	--	--	--	Manganese	CNS	--	9.8E-04	--	9.8E-04
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	3.7E-13	--	3.7E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.8E-12	--	2.8E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.2E-13	--	2.2E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.0E-13	--	3.0E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.8E-12	--	1.8E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	2.7E-09	--	2.7E-09	(Total)		--	1.3E-03	--	1.3E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Tetrachloroethene	--	1.1E-09	--	1.1E-09	Tetrachloroethene	Liver/Kidney	--	5.6E-05	--	5.6E-05
			(Total)	--	1.1E-09	--	1.1E-09	(Total)		--	5.6E-05	--	5.6E-05

Total Risk Across Surface Soil =	4.5E-09	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.6E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	8.5E-03
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.6E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.30.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-72
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	8.3E-02	--	6.6E-05	8.3E-02
			Manganese	--	--	--	--	Manganese	CNS	1.7E-02	--	1.4E-04	1.7E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	2.1E-08	--	1.8E-09	2.2E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.5E-07	--	1.3E-08	1.7E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.2E-08	--	1.1E-09	1.3E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.6E-08	--	1.4E-09	1.8E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.2E-08	--	2.8E-09	3.5E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	2.3E-07	--	2.0E-08	2.5E-07	(Total)		1.0E-01	--	2.0E-04	1.0E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	9.3E-09	--	9.3E-09	Cadmium	Kidney	--	1.6E-03	--	1.6E-03
			Manganese	--	--	--	--	Manganese	CNS	--	4.7E-03	--	4.7E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.3E-12	--	1.3E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	9.4E-12	--	9.4E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	7.6E-13	--	7.6E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.0E-12	--	1.0E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.1E-12	--	6.1E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	9.3E-09	--	9.3E-09	(Total)		--	6.3E-03	--	6.3E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Tetrachloroethene	--	8.8E-09	--	8.8E-09	Tetrachloroethene	Liver/Kidney	--	6.3E-04	--	6.3E-04
			(Total)	--	8.8E-09	--	8.8E-09	(Total)		--	6.3E-04	--	6.3E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.1E-01
Total Risk for Shallow Soil-to-Indoor Air =	8.8E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.3E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-73	**EAPC No.:** 31

CT Exposure Scenario

TABLE 7.31.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.1E-04
	Ethylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	2.6E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.5E-06
	Styrene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	2.3E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	8.9E-06
	Toluene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.8E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.1E-05
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.8E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.31.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	4.0E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.4E-03
	Ethylbenzene	6.1E-05	mg/m^3	6.1E-05	mg/m^3	M	2.9E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.0E-05
	Styrene	5.4E-05	mg/m^3	5.4E-05	mg/m^3	M	2.6E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.0E-04
	Toluene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	2.0E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.3E-04
	Xylenes	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.5E-05
												Total Hazard Index Across All Exposure Routes/Pathways	2.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.31.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	3.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.4E-08
	Ethylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	2.4E-07	mg/kg-day	--	--	--
	Styrene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	2.2E-07	mg/kg-day	--	--	--
	Toluene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.7E-07	mg/kg-day	--	--	--
	Xylenes	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.31.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	2.7E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-07
	Ethylbenzene	6.1E-05	mg/m^3	6.1E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Styrene	5.4E-05	mg/m^3	5.4E-05	mg/m^3	M	1.7E-06	mg/kg-day	--	--	--
	Toluene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Xylenes	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.31.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-73
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.4E-08	--	3.4E-08	Benzene	Blood	--	2.1E-04	--	2.1E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.5E-06	--	4.5E-06
			Styrene	--	--	--	--	Styrene	CNS	--	8.9E-06	--	8.9E-06
			Toluene	--	--	--	--	Toluene	CNS	--	2.1E-05	--	2.1E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.8E-06	--	5.8E-06
			(Total)	--	3.4E-08	--	3.4E-08	(Total)		--	2.5E-04	--	2.5E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.4E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.5E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.31.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.7E-07	--	2.7E-07	Benzene	Blood	--	2.4E-03	--	2.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.0E-05	--	5.0E-05
			Styrene	--	--	--	--	Styrene	CNS	--	1.0E-04	--	1.0E-04
			Toluene	--	--	--	--	Toluene	CNS	--	2.3E-04	--	2.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.5E-05	--	6.5E-05
			(Total)	--	2.7E-07	--	2.7E-07	(Total)		--	2.8E-03	--	2.8E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.7E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.8E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-76	**EAPC No.:** 32

CT Exposure Scenario

TABLE 7.32.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	9.2E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.9E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.7E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.7E-08	mg/kg-day	--	--	--
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	3.0E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.7E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	5.0E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.0E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.0E-09	mg/kg-day	--	--	--
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	7.4E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	2.2E-10	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	1.1E-09	mg/kg-day	--	--	--
	(Total)										--
								Total Hazard Index Across All Exposure Routes/Pathways			--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	3.0E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	8.9E-12	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	8.9E-12	mg/kg-day	--	--	--	--	--
	Chrysene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	9.8E-12	mg/m^3	R	9.7E-13	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	4.7E-11	mg/m^3	R	4.7E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	3.1E-06	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	3.4E-06
	Tetrachloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.7E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.6E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	3.8E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	3.8E-07	mg/kg-day	--	--	--
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	4.2E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	2.0E-07	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	4.0E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	4.0E-08	mg/kg-day	--	--	--
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	4.4E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	2.1E-08	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	1.1E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	4.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	4.3E-11	mg/kg-day	--	--	--	--	--
	Chrysene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	9.8E-12	mg/m^3	R	4.7E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	4.7E-11	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.32.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Acetone	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	3.4E-05	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	3.8E-05
	Tetrachloroethene	4.1E-05	mg/m^3	4.1E-05	mg/m^3	M	2.0E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.32.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	8.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.0E-08
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.5E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	7.8E-08
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.1E-09
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	2.6E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.1E-09
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	9.5E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.1E-09
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	2.8E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	1.2E-09
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	1.4E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-09
	(Total)										9.8E-08
Dermal	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	6.4E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.6E-10
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.7E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.7E-09
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.9E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.3E-10
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.9E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.3E-10
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	7.0E-10	mg/kg-day	1.2E-01	mg/kg-day^{-1}	8.4E-11
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	2.1E-11	mg/kg-day	4.1E+00	mg/kg-day^{-1}	8.5E-11
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	1.0E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.2E-10
	(Total)										7.2E-09
										Total Risk Across All Exposure Routes/Pathways	1.1E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	2.8E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.1E-12
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	2.1E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	8.2E-12
	Benzo(b)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	8.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.3E-13
	Benzo(k)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	8.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.3E-13
	Chrysene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	3.1E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	1.2E-13
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	9.8E-12	mg/m^3	R	9.2E-14	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	3.8E-13
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	4.7E-11	mg/m^3	R	4.4E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.7E-13
										Total Risk Across All Exposure Routes/Pathways	1.1E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	2.9E-07	mg/kg-day	--	--	--
	Tetrachloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.6E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.5E-09
										Total Risk Across All Exposure Routes/Pathways	3.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	5.0E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.1E-08
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.8E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	4.5E-07
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.5E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-08
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.5E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.8E-08
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	5.6E-08	mg/kg-day	1.2E-01	mg/kg-day^{-1}	6.7E-09
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	1.6E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	6.8E-09
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	7.9E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	9.5E-09
	(Total)										5.7E-07
Dermal	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	2.0E-01	mg/kg	M	4.3E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.2E-09
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.2E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	3.9E-08
	Benzo(b)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.3E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-09
	Benzo(k)fluoranthene	6.0E-02	mg/kg	6.0E-02	mg/kg	M	1.3E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-09
	Chrysene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	4.8E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	5.7E-10
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	6.6E-03	mg/kg	M	1.4E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	5.8E-10
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	3.2E-02	mg/kg	M	6.8E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.2E-10
	(Total)										4.9E-08
										Total Risk Across All Exposure Routes/Pathways	6.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	2.0E-01	mg/kg	3.0E-10	mg/m^3	R	9.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.7E-12
	Benzo(a)pyrene	1.5E-01	mg/kg	2.3E-10	mg/m^3	R	7.1E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.8E-11
	Benzo(b)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.1E-12
	Benzo(k)fluoranthene	6.0E-02	mg/kg	9.0E-11	mg/m^3	R	2.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.1E-12
	Chrysene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	1.1E-11	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	4.1E-13
	Dibenzo(a,h)anthracene	6.6E-03	mg/kg	9.8E-12	mg/m^3	R	3.1E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-12
	Indeno(1,2,3-cd)pyrene	3.2E-02	mg/kg	4.7E-11	mg/m^3	R	1.5E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.9E-13
										Total Risk Across All Exposure Routes/Pathways	3.6E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.32.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-76

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Acetone	7.2E-05	mg/m^3	7.2E-05	mg/m^3	M	2.3E-06	mg/kg-day	--	--	--
	Tetrachloroethene	4.1E-05	mg/m^3	4.1E-05	mg/m^3	M	1.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.8E-08
										Total Risk Across All Exposure Routes/Pathways	2.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.32.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-76
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.0E-08	--	7.6E-10	1.1E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	7.8E-08	--	5.7E-09	8.3E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.1E-09	--	2.3E-10	3.3E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.1E-09	--	2.3E-10	3.3E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.1E-09	--	8.4E-11	1.2E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.2E-09	--	8.5E-11	1.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.6E-09	--	1.2E-10	1.8E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	9.8E-08	--	7.2E-09	1.1E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	1.1E-12	--	1.1E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	8.2E-12	--	8.2E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	3.3E-13	--	3.3E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	3.3E-13	--	3.3E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	1.2E-13	--	1.2E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	3.8E-13	--	3.8E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.7E-13	--	1.7E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.1E-11	--	1.1E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	3.4E-06	--	3.4E-06
			Tetrachloroethene	--	3.5E-09	--	3.5E-09	Tetrachloroethene	Liver/Kidney	--	1.7E-04	--	1.7E-04
			(Total)	--	3.5E-09	--	3.5E-09	(Total)		--	1.8E-04	--	1.8E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.1E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.5E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.8E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.32.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-76
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	6.1E-08	--	5.2E-09	6.6E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	4.5E-07	--	3.9E-08	4.9E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	1.8E-08	--	1.6E-09	2.0E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	1.8E-08	--	1.6E-09	2.0E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	6.7E-09	--	5.7E-10	7.2E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	6.8E-09	--	5.8E-10	7.3E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	9.5E-09	--	8.2E-10	1.0E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	5.7E-07	--	4.9E-08	6.2E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	3.7E-12	--	3.7E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	2.8E-11	--	2.8E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.1E-12	--	1.1E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	1.1E-12	--	1.1E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	4.1E-13	--	4.1E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.3E-12	--	1.3E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	5.9E-13	--	5.9E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	3.6E-11	--	3.6E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Acetone	--	--	--	--	Acetone	Kidney	--	3.8E-05	--	3.8E-05
			Tetrachloroethene	--	2.8E-08	--	2.8E-08	Tetrachloroethene	Liver/Kidney	--	2.0E-03	--	2.0E-03
			(Total)	--	2.8E-08	--	2.8E-08	(Total)		--	2.0E-03	--	2.0E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	6.2E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.8E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.0E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-803	**EAPC No.:** 33

CT Exposure Scenario

TABLE 7.33.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	2.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	5.3E-09	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.9E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	1.6E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	3.9E-10	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	2.2E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	7.1E-11	mg/m^3	R	7.1E-12	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.7E-11	mg/m^3	R	1.7E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Toluene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	1.9E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.3E-05
	Xylenes	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	1.0E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.2E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.3E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	3.0E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	7.4E-08	mg/kg-day	--	--	--
	(Total)										--
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	9.6E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	3.2E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	7.6E-09	mg/kg-day	--	--	--
	(Total)										--
										Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)pyrene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	1.0E-10	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	4.8E-02	mg/kg	7.1E-11	mg/m^3	R	3.4E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.7E-11	mg/m^3	R	8.2E-12	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.33.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Toluene	4.6E-05	mg/m^3	4.6E-05	mg/m^3	M	2.2E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.5E-04
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.2E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.8E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.33.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	6.3E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.5E-08
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	2.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.5E-09
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	5.0E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.0E-09
	(Total)										8.0E-08
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	4.6E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	5.5E-09
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	1.5E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.8E-10
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	3.6E-11	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.5E-10
	(Total)										5.8E-09
										Total Risk Across All Exposure Routes/Pathways	8.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	2.0E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	7.9E-12
	Benzo(k)fluoranthene	4.8E-02	mg/kg	7.1E-11	mg/m^3	R	6.7E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.6E-13
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.7E-11	mg/m^3	R	1.6E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.6E-13
										Total Risk Across All Exposure Routes/Pathways	8.8E-12

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Toluene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	1.8E-07	mg/kg-day	--	--	--
	Xylenes	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	9.8E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.6E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	4.4E-07
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	1.2E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.4E-08
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	2.9E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.2E-08
	(Total)										4.6E-07
Dermal	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	1.5E-01	mg/kg	M	3.1E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.7E-08
	Benzo(k)fluoranthene	4.8E-02	mg/kg	4.8E-02	mg/kg	M	1.0E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.2E-09
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.2E-02	mg/kg	M	2.5E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.0E-09
	(Total)										4.0E-08
										Total Risk Across All Exposure Routes/Pathways	5.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)pyrene	1.5E-01	mg/kg	2.2E-10	mg/m^3	R	6.9E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	2.7E-11
	Benzo(k)fluoranthene	4.8E-02	mg/kg	7.1E-11	mg/m^3	R	2.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	8.8E-13
	Dibenzo(a,h)anthracene	1.2E-02	mg/kg	1.7E-11	mg/m^3	R	5.5E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	2.2E-12
										Total Risk Across All Exposure Routes/Pathways	3.0E-11

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.33.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-803

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Toluene	4.6E-05	mg/m^3	4.6E-05	mg/m^3	M	1.5E-06	mg/kg-day	--	--	--
	Xylenes	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	7.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.33.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-803
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	7.5E-08	--	5.5E-09	8.1E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	2.5E-09	--	1.8E-10	2.6E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	2.0E-09	--	1.5E-10	2.2E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	8.0E-08	--	5.8E-09	8.5E-08	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	7.9E-12	--	7.9E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.6E-13	--	2.6E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	6.6E-13	--	6.6E-13	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	8.8E-12	--	8.8E-12	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Toluene	--	--	--	--	Toluene	CNS	--	2.3E-05	--	2.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.2E-06	--	5.2E-06
			(Total)	--	--	--	--	(Total)		--	2.8E-05	--	2.8E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.5E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.8E-05
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.33.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-803
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	4.4E-07	--	3.7E-08	4.7E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	1.4E-08	--	1.2E-09	1.6E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.2E-08	--	1.0E-09	1.3E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	4.6E-07	--	4.0E-08	5.0E-07	(Total)		--	--	--	--
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)pyrene	--	2.7E-11	--	2.7E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(k)fluoranthene	--	8.8E-13	--	8.8E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	2.2E-12	--	2.2E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			(Total)	--	3.0E-11	--	3.0E-11	(Total)		--	--	--	--
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Toluene	--	--	--	--	Toluene	CNS	--	2.5E-04	--	2.5E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.8E-05	--	5.8E-05
			(Total)	--	--	--	--	(Total)		--	3.1E-04	--	3.1E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.0E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.1E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-901	**EAPC No.:** 34

CT Exposure Scenario

TABLE 7.34.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Vanadium	7.3E+01	mg/kg	7.3E+01	mg/kg	M	3.3E-05	mg/kg-day	7.0E-03	mg/kg-day	4.7E-03
	Pesticides/PCBs										
	4,4'-DDD	9.3E-01	mg/kg	9.3E-01	mg/kg	M	4.3E-07	mg/kg-day	--	--	--
	4,4'-DDE	8.8E-01	mg/kg	8.8E-01	mg/kg	M	4.0E-07	mg/kg-day	--	--	--
	4,4'-DDT	4.7E+00	mg/kg	4.7E+00	mg/kg	M	2.2E-06	mg/kg-day	5.0E-04	mg/kg-day	4.3E-03
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.3E-08	mg/kg-day	--	--	--
	(Total)										3.6E-02
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.7E-04
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.7E-09	mg/kg-day	1.0E-03	mg/kg-day	1.7E-06
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.1E-06	mg/kg-day	1.4E-01	mg/kg-day	8.1E-06
	Vanadium	7.3E+01	mg/kg	7.3E+01	mg/kg	M	1.9E-07	mg/kg-day	7.0E-03	mg/kg-day	2.7E-05
	Pesticides/PCBs										
	4,4'-DDD	9.3E-01	mg/kg	9.3E-01	mg/kg	M	7.2E-09	mg/kg-day	--	--	--
	4,4'-DDE	8.8E-01	mg/kg	8.8E-01	mg/kg	M	6.8E-09	mg/kg-day	--	--	--
	4,4'-DDT	4.7E+00	mg/kg	4.7E+00	mg/kg	M	3.7E-08	mg/kg-day	5.0E-04	mg/kg-day	7.3E-05
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.6E-09	mg/kg-day	--	--	--
	(Total)										4.8E-04
										Total Hazard Index Across All Exposure Routes/Pathways	3.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.4E+01	mg/kg	2.2E-08	mg/m^3	R	2.1E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.5E-04
	Cadmium	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	9.9E-10	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.7E-04
	Manganese	4.4E+02	mg/kg	6.6E-07	mg/m^3	R	6.5E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.1E-03
	Vanadium	7.3E+01	mg/kg	1.1E-07	mg/m^3	R	1.1E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	9.3E-01	mg/kg	1.4E-09	mg/m^3	R	1.4E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	1.3E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	4.7E+00	mg/kg	7.1E-09	mg/m^3	R	7.0E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	2.0E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	2.0E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.3E-05	mg/kg-day	7.0E-03	mg/kg-day	4.7E-03
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	3.9E-07	mg/kg-day	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	3.7E-07	mg/kg-day	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	2.0E-06	mg/kg-day	5.0E-04	mg/kg-day	4.0E-03
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.2E-08	mg/kg-day	--	--	--
	(Total)										3.4E-02
Dermal	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	1.8E-09	mg/kg-day	1.0E-03	mg/kg-day	1.8E-06
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	1.1E-06	mg/kg-day	1.4E-01	mg/kg-day	7.9E-06
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.8E-07	mg/kg-day	7.0E-03	mg/kg-day	2.6E-05
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	6.6E-09	mg/kg-day	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	6.3E-09	mg/kg-day	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	3.4E-08	mg/kg-day	5.0E-04	mg/kg-day	6.7E-05
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.5E-09	mg/kg-day	--	--	--
	(Total)										4.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	3.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	2.0E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	2.3E-04
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	1.0E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.8E-04
	Manganese	4.3E+02	mg/kg	6.4E-07	mg/m^3	R	6.3E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.1E-03
	Vanadium	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	1.1E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	8.5E-01	mg/kg	1.3E-09	mg/m^3	R	1.3E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	1.2E-09	mg/m^3	R	1.2E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	6.5E-09	mg/m^3	R	6.5E-10	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.4E-01	mg/kg	2.0E-10	mg/m^3	R	2.0E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	4.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	2.7E-03	mg/kg-day	1.4E-01	mg/kg-day	1.9E-02
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	4.6E-04	mg/kg-day	7.0E-03	mg/kg-day	6.5E-02
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	5.4E-06	mg/kg-day	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	5.2E-06	mg/kg-day	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	2.8E-05	mg/kg-day	5.0E-04	mg/kg-day	5.6E-02
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	8.6E-07	mg/kg-day	--	--	--
	(Total)										4.7E-01
Dermal	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-03	mg/kg-day	3.5E-05
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	2.2E-05	mg/kg-day	1.4E-01	mg/kg-day	1.6E-04
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.7E-06	mg/kg-day	7.0E-03	mg/kg-day	5.2E-04
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	1.3E-07	mg/kg-day	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	6.7E-07	mg/kg-day	5.0E-04	mg/kg-day	1.3E-03
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	9.0E-08	mg/kg-day	--	--	--
	(Total)										8.9E-03
										Total Hazard Index Across All Exposure Routes/Pathways	4.8E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Arsenic	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	9.5E-09	mg/kg-day	8.6E-06	mg/kg-day	3.0E-05	mg/m3	1.1E-03
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	4.9E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	8.5E-04
	Manganese	4.3E+02	mg/kg	6.4E-07	mg/m^3	R	3.0E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	5.3E-03
	Vanadium	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	5.1E-08	mg/kg-day	--	--	--	--	--
	Pesticides/PCBs												
	4,4'-DDD	8.5E-01	mg/kg	1.3E-09	mg/m^3	R	6.0E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDE	8.1E-01	mg/kg	1.2E-09	mg/m^3	R	5.7E-10	mg/kg-day	--	--	--	--	--
	4,4'-DDT	4.4E+00	mg/kg	6.5E-09	mg/m^3	R	3.1E-09	mg/kg-day	--	--	--	--	--
	SVOCs												
	Benzo(a)anthracene	1.4E-01	mg/kg	2.0E-10	mg/m^3	R	9.6E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	7.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.34.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SURFACE SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil
Exposure Point: Surface Soil
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	6.2E-07	mg/kg-day	1.5E+00	mg/kg-day^{-1}	9.3E-07
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	2.9E-07	mg/kg-day	--	--	--
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	Vanadium	7.3E+01	mg/kg	7.3E+01	mg/kg	M	3.1E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	9.3E-01	mg/kg	9.3E-01	mg/kg	M	4.0E-08	mg/kg-day	2.4E-01	mg/kg-day^{-1}	9.6E-09
	4,4'-DDE	8.8E-01	mg/kg	8.8E-01	mg/kg	M	3.8E-08	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.3E-08
	4,4'-DDT	4.7E+00	mg/kg	4.7E+00	mg/kg	M	2.0E-07	mg/kg-day	3.4E-01	mg/kg-day^{-1}	7.0E-08
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	6.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	7.1E-09
	(Total)										1.0E-06
Dermal	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	1.4E+01	mg/kg	M	1.1E-08	mg/kg-day	1.5E+00	mg/kg-day^{-1}	1.6E-08
	Cadmium	6.7E+00	mg/kg	6.7E+00	mg/kg	M	1.6E-10	mg/kg-day	--	--	--
	Manganese	4.4E+02	mg/kg	4.4E+02	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	Vanadium	7.3E+01	mg/kg	7.3E+01	mg/kg	M	1.8E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	9.3E-01	mg/kg	9.3E-01	mg/kg	M	6.8E-10	mg/kg-day	2.4E-01	mg/kg-day^{-1}	1.6E-10
	4,4'-DDE	8.8E-01	mg/kg	8.8E-01	mg/kg	M	6.5E-10	mg/kg-day	3.4E-01	mg/kg-day^{-1}	2.2E-10
	4,4'-DDT	4.7E+00	mg/kg	4.7E+00	mg/kg	M	3.5E-09	mg/kg-day	3.4E-01	mg/kg-day^{-1}	1.2E-09
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.4E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.2E-10
	(Total)										1.8E-08
										Total Risk Across All Exposure Routes/Pathways	1.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SURFACE SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Ambient Air
Exposure Point: Surface Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.4E+01	mg/kg	2.2E-08	mg/m^3	R	2.0E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.4E-09
	Cadmium	6.7E+00	mg/kg	1.0E-08	mg/m^3	R	9.4E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Manganese	4.4E+02	mg/kg	6.6E-07	mg/m^3	R	6.1E-09	mg/kg-day	--	--	--
	Vanadium	7.3E+01	mg/kg	1.1E-07	mg/m^3	R	1.0E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	9.3E-01	mg/kg	1.4E-09	mg/m^3	R	1.3E-11	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	3.1E-12
	4,4'-DDE	8.8E-01	mg/kg	1.3E-09	mg/m^3	R	1.2E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	4.2E-12
	4,4'-DDT	4.7E+00	mg/kg	7.1E-09	mg/m^3	R	6.6E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.3E-11
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	2.1E-10	mg/m^3	R	1.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.5E-13
										Total Risk Across All Exposure Routes/Pathways	3.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	5.8E-07	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	8.7E-07
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	2.9E-07	mg/kg-day	--	--	--
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	3.1E-06	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	3.7E-08	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	8.8E-09
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	3.5E-08	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.2E-08
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	1.9E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	6.4E-08
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	5.8E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	7.0E-09
	(Total)										9.6E-07
Dermal	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	9.8E-09	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.5E-08
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	1.7E-10	mg/kg-day	--	--	--
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.7E-08	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	6.2E-10	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	1.5E-10
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	5.9E-10	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	2.0E-10
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	3.2E-09	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.1E-09
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	4.3E-10	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	5.1E-10
	(Total)										1.7E-08
										Total Risk Across All Exposure Routes/Pathways	9.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	1.9E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.3E-09
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	9.6E-11	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.4E-09
	Manganese	4.3E+02	mg/kg	6.4E-07	mg/m^3	R	6.0E-09	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	1.0E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	1.3E-09	mg/m^3	R	1.2E-11	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	2.9E-12
	4,4'-DDE	8.1E-01	mg/kg	1.2E-09	mg/m^3	R	1.1E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	3.9E-12
	4,4'-DDT	4.4E+00	mg/kg	6.5E-09	mg/m^3	R	6.1E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	2.1E-11
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	2.0E-10	mg/m^3	R	1.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.4E-13
										Total Risk Across All Exposure Routes/Pathways	3.7E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	4.2E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.2E-07
										Total Risk Across All Exposure Routes/Pathways	4.2E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	3.4E-06	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	5.0E-06
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	1.7E-06	mg/kg-day	--	--	--
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	1.1E-04	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	2.1E-07	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	5.1E-08
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	2.0E-07	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	6.9E-08
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	1.1E-06	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	3.7E-07
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	3.4E-08	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	4.1E-08
	(Total)										5.6E-06
Dermal	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	1.3E+01	mg/kg	M	6.7E-08	mg/kg-day	1.5E+00	mg/kg-day $^{-1}$	1.0E-07
	Cadmium	6.8E+00	mg/kg	6.8E+00	mg/kg	M	1.1E-09	mg/kg-day	--	--	--
	Manganese	4.3E+02	mg/kg	4.3E+02	mg/kg	M	7.1E-07	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	7.1E+01	mg/kg	M	1.2E-07	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	8.5E-01	mg/kg	M	4.2E-09	mg/kg-day	2.4E-01	mg/kg-day $^{-1}$	1.0E-09
	4,4'-DDE	8.1E-01	mg/kg	8.1E-01	mg/kg	M	4.0E-09	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	1.4E-09
	4,4'-DDT	4.4E+00	mg/kg	4.4E+00	mg/kg	M	2.2E-08	mg/kg-day	3.4E-01	mg/kg-day $^{-1}$	7.4E-09
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	1.4E-01	mg/kg	M	2.9E-09	mg/kg-day	1.2E+00	mg/kg-day $^{-1}$	3.5E-09
	(Total)										1.1E-07
										Total Risk Across All Exposure Routes/Pathways	5.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Arsenic	1.3E+01	mg/kg	2.0E-08	mg/m^3	R	6.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	7.6E-09
	Cadmium	6.8E+00	mg/kg	1.0E-08	mg/m^3	R	3.2E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	4.9E-09
	Manganese	4.3E+02	mg/kg	6.4E-07	mg/m^3	R	2.0E-08	mg/kg-day	--	--	--
	Vanadium	7.1E+01	mg/kg	1.1E-07	mg/m^3	R	3.4E-09	mg/kg-day	--	--	--
	Pesticides/PCBs										
	4,4'-DDD	8.5E-01	mg/kg	1.3E-09	mg/m^3	R	4.0E-11	mg/kg-day	2.4E-01	$mg/kg\text{-}day^{-1}$	9.7E-12
	4,4'-DDE	8.1E-01	mg/kg	1.2E-09	mg/m^3	R	3.8E-11	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	1.3E-11
	4,4'-DDT	4.4E+00	mg/kg	6.5E-09	mg/m^3	R	2.1E-10	mg/kg-day	3.4E-01	$mg/kg\text{-}day^{-1}$	7.0E-11
	SVOCs										
	Benzo(a)anthracene	1.4E-01	mg/kg	2.0E-10	mg/m^3	R	6.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.5E-12
										Total Risk Across All Exposure Routes/Pathways	1.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	3.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.4E-06
										Total Risk Across All Exposure Routes/Pathways	3.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.34.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Surface Soil	**Inorganics**					**Inorganics**					
			Arsenic	9.3E-07	--	1.6E-08	9.5E-07	Arsenic	Skin	2.2E-02	--	3.7E-04	2.2E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.7E-06	3.1E-03
			Manganese	--	--	--	--	Manganese	CNS	1.4E-03	--	8.1E-06	1.4E-03
			Vanadium	--	--	--	--	Vanadium	Liver	4.7E-03	--	2.7E-05	4.8E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	9.6E-09	--	1.6E-10	9.8E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.3E-08	--	2.2E-10	1.3E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	7.0E-08	--	1.2E-09	7.1E-08	4,4'-DDT	Liver	4.3E-03	--	7.3E-05	4.4E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	7.1E-09	--	5.2E-10	7.7E-09	Benzo(a)anthracene	--	--	--	--	--
			(Total)	1.0E-06	--	1.8E-08	1.0E-06	(Total)		3.6E-02	--	4.8E-04	3.6E-02
	Outdoor Air	Surface soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.4E-09	--	2.4E-09	Arsenic	Skin	--	2.5E-04	--	2.5E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.7E-04	--	1.7E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.1E-03	--	1.1E-03
			Vanadium	--	--	--	--	Vanadium	Liver	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	3.1E-12	--	3.1E-12	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	4.2E-12	--	4.2E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.3E-11	--	2.3E-11	4,4'-DDT	Liver	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	7.5E-13	--	7.5E-13	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.9E-09	--	3.9E-09	(Total)		--	1.6E-03	--	1.6E-03

TABLE 9.34.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	8.7E-07	--	1.5E-08	8.8E-07	Arsenic	Skin	2.0E-02	--	3.5E-04	2.1E-02
			Cadmium	--	--	--	--	Cadmium	Kidney	3.1E-03	--	1.8E-06	3.1E-03
			Manganese	--	--	--	--	Manganese	CNS	1.4E-03	--	7.9E-06	1.4E-03
			Vanadium	--	--	--	--	Vanadium	Liver	4.7E-03	--	2.6E-05	4.7E-03
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	8.8E-09	--	1.5E-10	9.0E-09	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	1.2E-08	--	2.0E-10	1.2E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	6.4E-08	--	1.1E-09	6.5E-08	4,4'-DDT	Liver	4.0E-03	--	6.7E-05	4.1E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	7.0E-09	--	5.1E-10	7.5E-09	Benzo(a)anthracene	--	--	--	--	--
			(Total)	9.6E-07	--	1.7E-08	9.8E-07	(Total)		3.4E-02	--	4.5E-04	3.4E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	2.3E-09	--	2.3E-09	Arsenic	Developmental	--	2.3E-04	--	2.3E-04
			Cadmium	--	1.4E-09	--	1.4E-09	Cadmium	Kidney	--	1.8E-04	--	1.8E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.1E-03	--	1.1E-03
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	2.9E-12	--	2.9E-12	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	3.9E-12	--	3.9E-12	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	2.1E-11	--	2.1E-11	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	7.4E-13	--	7.4E-13	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	3.7E-09	--	3.7E-09	(Total)		--	1.5E-03	--	1.5E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.2E-07	--	4.2E-07	Benzene	Blood	--	2.6E-03	--	2.6E-03
			(Total)	--	4.2E-07	--	4.2E-07	(Total)		--	2.6E-03	--	2.6E-03

Total Risk Across Surface Soil =	1.1E-06	Total Hazard Index Across Surface Soil =	3.8E-02
Total Risk Across Shallow Soil (0-15' bgs) =	9.8E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	3.6E-02
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	4.2E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	2.6E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.34.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Arsenic	5.0E-06	--	1.0E-07	5.1E-06	Arsenic	Skin	2.9E-01	--	6.9E-03	2.9E-01
			Cadmium	--	--	--	--	Cadmium	Kidney	4.4E-02	--	3.5E-05	4.4E-02
			Manganese	--	--	--	--	Manganese	CNS	1.9E-02	--	1.6E-04	2.0E-02
			Vanadium	--	--	--	--	Vanadium	Liver	6.5E-02	--	5.2E-04	6.6E-02
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	5.1E-08	--	1.0E-09	5.2E-08	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	6.9E-08	--	1.4E-09	7.0E-08	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	3.7E-07	--	7.4E-09	3.8E-07	4,4'-DDT	Liver	5.6E-02	--	1.3E-03	5.7E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.1E-08	--	3.5E-09	4.4E-08	Benzo(a)anthracene	--	--	--	--	--
			(Total)	5.6E-06	--	1.1E-07	5.7E-06	(Total)		4.7E-01	--	8.9E-03	4.8E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Arsenic	--	7.6E-09	--	7.6E-09	Arsenic	Developmental	--	1.1E-03	--	1.1E-03
			Cadmium	--	4.9E-09	--	4.9E-09	Cadmium	Kidney	--	8.5E-04	--	8.5E-04
			Manganese	--	--	--	--	Manganese	CNS	--	5.3E-03	--	5.3E-03
			Vanadium	--	--	--	--	Vanadium	--	--	--	--	--
			Pesticides/PCBs					**Pesticides/PCBs**					
			4,4'-DDD	--	9.7E-12	--	9.7E-12	4,4'-DDD	--	--	--	--	--
			4,4'-DDE	--	1.3E-11	--	1.3E-11	4,4'-DDE	--	--	--	--	--
			4,4'-DDT	--	7.0E-11	--	7.0E-11	4,4'-DDT	--	--	--	--	--
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	2.5E-12	--	2.5E-12	Benzo(a)anthracene	--	--	--	--	--
			(Total)	--	1.3E-08	--	1.3E-08	(Total)		--	7.3E-03	--	7.3E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.4E-06	--	3.4E-06	Benzene	Blood	--	2.9E-02	--	2.9E-02
			(Total)	--	3.4E-06	--	3.4E-06	(Total)		--	2.9E-02	--	2.9E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	5.7E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.9E-01
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	3.4E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	2.9E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Magellan Dr	**EAPC No.:** 35

CT Exposure Scenario

TABLE 7.35.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.7E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	6.0E-08	mg/kg-day	--	--	--
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	1.9E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	1.3E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	2.8E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.6E-07	mg/kg-day	4.0E-03	mg/kg-day	4.0E-05
	(Total)										4.0E-05
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.1E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	7.4E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	4.2E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	4.4E-09	mg/kg-day	--	--	--
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	1.4E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	9.6E-10	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	2.1E-09	mg/kg-day	--	--	--
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	9.0E-09	mg/kg-day	4.0E-03	mg/kg-day	2.3E-06
	(Total)										2.3E-06
										Total Hazard Index Across All Exposure Routes/Pathways	4.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	4.9E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	3.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.9E-10	mg/m^3	R	1.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	2.0E-11	mg/kg-day	--	--	--	--	--
	Chrysene	4.1E-01	mg/kg	6.2E-10	mg/m^3	R	6.1E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	4.3E-11	mg/m^3	R	4.3E-12	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	9.3E-11	mg/m^3	R	9.2E-12	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	3.5E-01	mg/kg	6.5E-05	mg/m^3	R	6.4E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.3E-03	mg/m^3	4.3E-03	mg/m^3	M	4.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-02
	sec-Butylbenzene	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.6E-07	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.6E-05
	Ethylbenzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.7E-03
	Isopropylbenzene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.9E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.7E-02
	Naphthalene	9.3E-08	mg/m^3	9.3E-08	mg/m^3	M	9.2E-09	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.6E-06
	n-Propylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	2.6E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	6.4E-04
	Tetrachloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-02
	Toluene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	9.3E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-02
												Total Hazard Index Across All Exposure Routes/Pathways	6.9E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-01
												Total Hazard Index Across All Exposure Routes/Pathways	1.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.1E-06	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.4E-06	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.9E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	8.4E-07	mg/kg-day	--	--	--
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	2.6E-06	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	1.8E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	4.0E-07	mg/kg-day	--	--	--
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.2E-06	mg/kg-day	4.0E-03	mg/kg-day	5.6E-04
	(Total)										5.6E-04
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	2.2E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	1.5E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	8.2E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	8.8E-08	mg/kg-day	--	--	--
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	2.7E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	1.9E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	4.1E-08	mg/kg-day	--	--	--
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-07	mg/kg-day	4.0E-03	mg/kg-day	4.5E-05
	(Total)										4.5E-05
										Total Hazard Index Across All Exposure Routes/Pathways	6.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**SVOCs**												
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	2.4E-10	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	1.6E-10	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.9E-10	mg/m^3	R	8.8E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	9.4E-11	mg/kg-day	--	--	--	--	--
	Chrysene	4.1E-01	mg/kg	6.2E-10	mg/m^3	R	2.9E-10	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	4.3E-11	mg/m^3	R	2.0E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	9.3E-11	mg/m^3	R	4.4E-11	mg/kg-day	--	--	--	--	--
	VOCs												
	Benzene	3.5E-01	mg/kg	5.9E-05	mg/m^3	R	2.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.6E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	4.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-01
	sec-Butylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	7.4E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-04
	Ethylbenzene	6.3E-02	mg/m^3	6.3E-02	mg/m^3	M	3.0E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.2E-02
	Isopropylbenzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	2.1E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.9E-01
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	1.0E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	4.0E-05
	n-Propylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	2.9E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	7.2E-03
	Tetrachloroethene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.2E-01
	Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.0E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	7.7E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.9E-02	mg/m^3	7.9E-02	mg/m^3	M	3.7E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E+00
												Total Hazard Index Across All Exposure Routes/Pathways	2.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.35.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.4E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.7E-08
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	9.5E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	1.1E-07
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.4E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.4E-09
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	5.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	6.8E-09
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	1.8E-08	mg/kg-day	1.2E-01	mg/kg-day^{-1}	2.1E-09
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	1.2E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	5.1E-09
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	2.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.2E-09
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.5E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	1.5E-09
	(Total)										1.6E-07
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	1.0E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.3E-09
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	7.0E-10	mg/kg-day	1.2E+01	mg/kg-day^{-1}	8.4E-09
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.9E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.7E-10
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	4.2E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	5.0E-10
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	1.3E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.6E-10
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	9.1E-11	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.7E-10
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	2.0E-10	mg/kg-day	1.2E+00	mg/kg-day^{-1}	2.4E-10
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.5E-10	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.5E-11
	(Total)										1.1E-08
										Total Risk Across All Exposure Routes/Pathways	1.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	4.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-12
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	3.1E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.2E-11
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.9E-10	mg/m^3	R	1.7E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.8E-13
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	1.8E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	7.2E-13
	Chrysene	4.1E-01	mg/kg	6.2E-10	mg/m^3	R	5.8E-12	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	2.2E-13
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	4.3E-11	mg/m^3	R	4.0E-13	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.6E-12
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	9.3E-11	mg/m^3	R	8.7E-13	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	3.4E-13
	VOCs										
	Benzene	3.5E-01	mg/kg	6.5E-05	mg/m^3	R	6.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.0E-08
										Total Risk Across All Exposure Routes/Pathways	6.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.3E-03	mg/m^3	4.3E-03	mg/m^3	M	4.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.0E-06
	sec-Butylbenzene	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.2E-08	mg/kg-day	--	--	--
	Ethylbenzene	2.7E-02	mg/m^3	2.7E-02	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Isopropylbenzene	1.9E-02	mg/m^3	1.9E-02	mg/m^3	M	1.8E-04	mg/kg-day	--	--	--
	Naphthalene	9.3E-08	mg/m^3	9.3E-08	mg/m^3	M	8.7E-10	mg/kg-day	--	--	--
	n-Propylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	2.4E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.2E-07
	Toluene	9.4E-03	mg/m^3	9.4E-03	mg/m^3	M	8.7E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.4E-02	mg/m^3	3.4E-02	mg/m^3	M	3.1E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.1E-05
										Total Risk Across All Exposure Routes/Pathways	3.1E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	8.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.0E-07
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	5.6E-08	mg/kg-day	1.2E+01	mg/kg-day^{-1}	6.7E-07
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.1E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.7E-08
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	3.3E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	4.0E-08
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	1.0E-07	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.2E-08
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	7.2E-09	mg/kg-day	4.1E+00	mg/kg-day^{-1}	3.0E-08
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	1.6E-08	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.9E-08
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.8E-08	mg/kg-day	1.0E-01	mg/kg-day^{-1}	8.8E-09
	(Total)										9.1E-07
Dermal	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	3.3E-01	mg/kg	M	7.1E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	8.6E-09
	Benzo(a)pyrene	2.2E-01	mg/kg	2.2E-01	mg/kg	M	4.8E-09	mg/kg-day	1.2E+01	mg/kg-day^{-1}	5.7E-08
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.7E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.2E-09
	Benzo(k)fluoranthene	1.3E-01	mg/kg	1.3E-01	mg/kg	M	2.8E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	3.4E-09
	Chrysene	4.1E-01	mg/kg	4.1E-01	mg/kg	M	8.9E-09	mg/kg-day	1.2E-01	mg/kg-day^{-1}	1.1E-09
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	2.9E-02	mg/kg	M	6.2E-10	mg/kg-day	4.1E+00	mg/kg-day^{-1}	2.5E-09
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	6.2E-02	mg/kg	M	1.3E-09	mg/kg-day	1.2E+00	mg/kg-day^{-1}	1.6E-09
	VOCs										
	Benzene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.8E-09	mg/kg-day	1.0E-01	mg/kg-day^{-1}	5.8E-10
	(Total)										7.8E-08
										Total Risk Across All Exposure Routes/Pathways	9.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**SVOCs**										
	Benzo(a)anthracene	3.3E-01	mg/kg	5.0E-10	mg/m^3	R	1.6E-11	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.1E-12
	Benzo(a)pyrene	2.2E-01	mg/kg	3.3E-10	mg/m^3	R	1.1E-11	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.1E-11
	Benzo(b)fluoranthene	1.2E-01	mg/kg	1.9E-10	mg/m^3	R	5.9E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.3E-12
	Benzo(k)fluoranthene	1.3E-01	mg/kg	2.0E-10	mg/m^3	R	6.3E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.4E-12
	Chrysene	4.1E-01	mg/kg	6.2E-10	mg/m^3	R	2.0E-11	mg/kg-day	3.9E-02	$mg/kg\text{-}day^{-1}$	7.6E-13
	Dibenzo(a,h)anthracene	2.9E-02	mg/kg	4.3E-11	mg/m^3	R	1.4E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	5.6E-12
	Indeno(1,2,3-cd)pyrene	6.2E-02	mg/kg	9.3E-11	mg/m^3	R	3.0E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.2E-12
	VOCs										
	Benzene	3.5E-01	mg/kg	5.9E-05	mg/m^3	R	1.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-07
										Total Risk Across All Exposure Routes/Pathways	1.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	3.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.2E-05
	sec-Butylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	5.0E-07	mg/kg-day	--	--	--
	Ethylbenzene	6.3E-02	mg/m^3	6.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
	Isopropylbenzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	6.9E-09	mg/kg-day	--	--	--
	n-Propylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	1.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	8.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.7E-06
	Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	7.0E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.9E-02	mg/m^3	7.9E-02	mg/m^3	M	2.5E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-04
										Total Risk Across All Exposure Routes/Pathways	2.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.35.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.7E-08	--	1.3E-09	1.8E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	1.1E-07	--	8.4E-09	1.2E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	6.4E-09	--	4.7E-10	6.9E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	6.8E-09	--	5.0E-10	7.3E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	2.1E-09	--	1.6E-10	2.3E-09	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	5.1E-09	--	3.7E-10	5.5E-09	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.2E-09	--	2.4E-10	3.5E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	1.5E-09	--	8.5E-11	1.6E-09	Benzene	Blood	4.0E-05	--	2.3E-06	4.2E-05
			(Total)	1.6E-07	--	1.1E-08	1.7E-07	(Total)		4.0E-05	--	2.3E-06	4.2E-05
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	1.8E-12	--	1.8E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.2E-11	--	1.2E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	6.8E-13	--	6.8E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	7.2E-13	--	7.2E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	2.2E-13	--	2.2E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.6E-12	--	1.6E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	3.4E-13	--	3.4E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	6.0E-08	--	6.0E-08	Benzene	Blood	--	3.7E-04	--	3.7E-04
			(Total)	--	6.0E-08	--	6.0E-08	(Total)		--	3.7E-04	--	3.7E-04
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.0E-06	--	4.0E-06	Benzene	Blood	--	2.5E-02	--	2.5E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.6E-05	--	1.6E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.7E-03	--	4.7E-03
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	1.7E-02	--	1.7E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.6E-06	--	3.6E-06
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	6.4E-04	--	6.4E-04
			Tetrachloroethene	--	2.2E-07	--	2.2E-07	Tetrachloroethene	Liver/Kidney	--	1.1E-02	--	1.1E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-02	--	1.1E-02
			(Total)	--	4.2E-06	--	4.2E-06	(Total)		--	6.9E-02	--	6.9E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.1E-05	--	3.1E-05	Benzene	Blood	--	1.9E-01	--	1.9E-01
			(Total)	--	3.1E-05	--	3.1E-05	(Total)		--	1.9E-01	--	1.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.3E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	4.2E-04
Total Risk for Shallow Soil-to-Indoor Air =	4.2E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.9E-02
Total Risk for Deep Soil-to-Indoor Air =	3.1E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	1.9E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.35.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	1.0E-07	--	8.6E-09	1.1E-07	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	6.7E-07	--	5.7E-08	7.2E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.7E-08	--	3.2E-09	4.1E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	4.0E-08	--	3.4E-09	4.3E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	1.2E-08	--	1.1E-09	1.3E-08	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	3.0E-08	--	2.5E-09	3.2E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.9E-08	--	1.6E-09	2.0E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	8.8E-09	--	5.8E-10	9.3E-09	Benzene	Blood	5.6E-04	--	4.5E-05	6.0E-04
			(Total)	9.1E-07	--	7.8E-08	9.9E-07	(Total)		5.6E-04	--	4.5E-05	6.0E-04
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**SVOCs**					**SVOCs**					
			Benzo(a)anthracene	--	6.1E-12	--	6.1E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.1E-11	--	4.1E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	2.3E-12	--	2.3E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.4E-12	--	2.4E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Chrysene	--	7.6E-13	--	7.6E-13	Chrysene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	5.6E-12	--	5.6E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.2E-12	--	1.2E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			VOCs					**VOCs**					
			Benzene	--	1.9E-07	--	1.9E-07	Benzene	Blood	--	1.6E-03	--	1.6E-03
			(Total)	--	1.9E-07	--	1.9E-07	(Total)		--	1.6E-03	--	1.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.2E-05	--	3.2E-05	Benzene	Blood	--	2.8E-01	--	2.8E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.9E-04	--	1.9E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.2E-02	--	5.2E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	1.9E-01	--	1.9E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	4.0E-05	--	4.0E-05
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	7.2E-03	--	7.2E-03
			Tetrachloroethene	--	1.7E-06	--	1.7E-06	Tetrachloroethene	Liver/Kidney	--	1.2E-01	--	1.2E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.2E-01	--	1.2E-01
			(Total)	--	3.4E-05	--	3.4E-05	(Total)		--	7.7E-01	--	7.7E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.5E-04	--	2.5E-04	Benzene	Blood	--	2.2E+00	--	2.2E+00
			(Total)	--	2.5E-04	--	2.5E-04	(Total)		--	2.2E+00	--	2.2E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	1.2E-06	Total Hazard Index Across Shallow Soil (0-15' bgs) =	2.2E-03
Total Risk for Shallow Soil-to-Indoor Air =	3.4E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.7E-01
Total Risk for Deep Soil-to-Indoor Air =	2.5E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	2.2E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (N)	**EAPC No.:** 36

CT Exposure Scenario

TABLE 7.36.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	2.1E-04	mg/kg-day	1.4E-01	mg/kg-day	1.5E-03
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	3.5E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.4E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.4E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	4.5E-08	mg/kg-day	--	--	--
	(Total)										8.9E-03
Dermal	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	4.2E-09	mg/kg-day	1.0E-03	mg/kg-day	4.2E-06
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	1.2E-06	mg/kg-day	1.4E-01	mg/kg-day	8.3E-06
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	2.6E-09	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.5E-09	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.5E-09	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.9E-09	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.5E-09	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	3.3E-09	mg/kg-day	--	--	--
	(Total)										1.2E-05
										Total Hazard Index Across All Exposure Routes/Pathways	8.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.6E+01	mg/kg	2.4E-08	mg/m^3	R	2.4E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	4.2E-04
	Manganese	4.5E+02	mg/kg	6.7E-07	mg/m^3	R	6.7E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.2E-03
	SVOCs												
	Benzo(a)anthracene	7.7E-02	mg/kg	1.2E-10	mg/m^3	R	1.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.1E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.7E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.1E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	1.5E-10	mg/m^3	R	1.5E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.1.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	4.4E-06	mg/m^3	4.4E-06	mg/m^3	M	4.3E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.5E-04
	1,3,5-Trimethylbenzene	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	5.6E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.2E-05
	4-Ethyl Toluene	6.0E-06	mg/m^3	6.0E-06	mg/m^3	M	6.0E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-06
	Benzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	5.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E-05
	Ethylbenzene	8.2E-06	mg/m^3	8.2E-06	mg/m^3	M	8.1E-07	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-06
	Tetrachloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	9.5E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	9.5E-05
	Xylenes	8.3E-06	mg/m^3	8.3E-06	mg/m^3	M	8.2E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.1E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	1.0E-04	mg/kg-day	1.0E-03	mg/kg-day	1.0E-01
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	2.9E-03	mg/kg-day	1.4E-01	mg/kg-day	2.0E-02
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	4.9E-07	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	4.8E-07	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	4.8E-07	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.5E-07	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	4.8E-07	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	6.2E-07	mg/kg-day	--	--	--
	(Total)										1.2E-01
Dermal	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	8.3E-08	mg/kg-day	1.0E-03	mg/kg-day	8.3E-05
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	2.3E-05	mg/kg-day	1.4E-01	mg/kg-day	1.6E-04
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	5.1E-08	mg/kg-day	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	7.8E-08	mg/kg-day	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	5.0E-08	mg/kg-day	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	6.5E-08	mg/kg-day	--	--	--
	(Total)										2.5E-04
										Total Hazard Index Across All Exposure Routes/Pathways	1.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.6E+01	mg/kg	2.4E-08	mg/m^3	R	1.2E-08	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	2.0E-03
	Manganese	4.5E+02	mg/kg	6.7E-07	mg/m^3	R	3.2E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	5.6E-03
	SVOCs												
	Benzo(a)anthracene	7.7E-02	mg/kg	1.2E-10	mg/m^3	R	5.5E-11	mg/kg-day	--	--	--	--	--
	Benzo(a)pyrene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	5.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(b)fluoranthene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	5.3E-11	mg/kg-day	--	--	--	--	--
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	8.3E-11	mg/kg-day	--	--	--	--	--
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	5.3E-11	mg/kg-day	--	--	--	--	--
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	1.5E-10	mg/m^3	R	6.9E-11	mg/kg-day	--	--	--	--	--
												Total Hazard Index Across All Exposure Routes/Pathways	7.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.36.2.CT

CT CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	4.9E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.8E-03
	1,3,5-Trimethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	6.2E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.6E-04
	4-Ethyl Toluene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	6.7E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.4E-05
	Benzene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	6.4E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.7E-04
	Ethylbenzene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	9.1E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.6E-05
	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
	Xylenes	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	9.2E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.6E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.7E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.36.1.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	7.0E-07	mg/kg-day	--	--	--
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	1.9E-05	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	3.3E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.0E-09
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.2E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	3.9E-08
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.3E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.9E-09
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	5.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	6.1E-09
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	3.3E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.3E-08
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	4.2E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	5.1E-09
	(Total)										7.1E-08
Dermal	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	4.0E-10	mg/kg-day	--	--	--
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	1.1E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	2.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.9E-10
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.4E-10	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.8E-09
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.4E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.9E-10
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	3.7E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	4.4E-10
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	2.4E-10	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	9.8E-10
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	3.1E-10	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.7E-10
	(Total)										5.2E-09
										Total Risk Across All Exposure Routes/Pathways	7.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	2.4E-08	mg/m^3	R	2.3E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	3.4E-09
	Manganese	4.5E+02	mg/kg	6.7E-07	mg/m^3	R	6.3E-09	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	1.2E-10	mg/m^3	R	1.1E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.2E-13
	Benzo(a)pyrene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.0E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	4.1E-12
	Benzo(b)fluoranthene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.1E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	4.1E-13
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	1.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	6.4E-13
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	1.1E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	4.3E-12
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	1.5E-10	mg/m^3	R	1.4E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	5.3E-13
										Total Risk Across All Exposure Routes/Pathways	3.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	4.4E-06	mg/m^3	4.4E-06	mg/m^3	M	4.1E-08	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	5.2E-09	mg/kg-day	--	--	--
	4-Ethyl Toluene	6.0E-06	mg/m^3	6.0E-06	mg/m^3	M	5.6E-08	mg/kg-day	--	--	--
	Benzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	5.4E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.4E-09
	Ethylbenzene	8.2E-06	mg/m^3	8.2E-06	mg/m^3	M	7.6E-08	mg/kg-day	--	--	--
	Tetrachloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	8.9E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	Xylenes	8.3E-06	mg/m^3	8.3E-06	mg/m^3	M	7.8E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.3E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.CT

CT CALCULATION OF CANCER RISKS

INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	4.1E-06	mg/kg-day	--	--	--
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	1.1E-04	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	1.9E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.3E-08
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.9E-08	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	2.3E-07
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.9E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.3E-08
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.9E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.5E-08
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.9E-08	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	7.8E-08
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	2.5E-08	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.9E-08
	(Total)										4.1E-07
Dermal	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	1.6E+01	mg/kg	M	2.7E-09	mg/kg-day	--	--	--
	Manganese	4.5E+02	mg/kg	4.5E+02	mg/kg	M	7.4E-07	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	7.7E-02	mg/kg	M	1.7E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.0E-09
	Benzo(a)pyrene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.6E-09	mg/kg-day	1.2E+01	$mg/kg\text{-}day^{-1}$	1.9E-08
	Benzo(b)fluoranthene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.6E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	1.9E-09
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.2E-01	mg/kg	M	2.5E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	3.0E-09
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	7.5E-02	mg/kg	M	1.6E-09	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	6.6E-09
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	9.8E-02	mg/kg	M	2.1E-09	mg/kg-day	1.2E+00	$mg/kg\text{-}day^{-1}$	2.5E-09
	(Total)										3.5E-08
										Total Risk Across All Exposure Routes/Pathways	4.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.6E+01	mg/kg	2.4E-08	mg/m^3	R	7.7E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	1.2E-08
	Manganese	4.5E+02	mg/kg	6.7E-07	mg/m^3	R	2.1E-08	mg/kg-day	--	--	--
	SVOCs										
	Benzo(a)anthracene	7.7E-02	mg/kg	1.2E-10	mg/m^3	R	3.7E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.4E-12
	Benzo(a)pyrene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	3.6E-12	mg/kg-day	3.9E+00	$mg/kg\text{-}day^{-1}$	1.4E-11
	Benzo(b)fluoranthene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	3.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.4E-12
	Benzo(k)fluoranthene	1.2E-01	mg/kg	1.8E-10	mg/m^3	R	5.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	2.2E-12
	Dibenzo(a,h)anthracene	7.5E-02	mg/kg	1.1E-10	mg/m^3	R	3.6E-12	mg/kg-day	4.1E+00	$mg/kg\text{-}day^{-1}$	1.5E-11
	Indeno(1,2,3-cd)pyrene	9.8E-02	mg/kg	1.5E-10	mg/m^3	R	4.6E-12	mg/kg-day	3.9E-01	$mg/kg\text{-}day^{-1}$	1.8E-12
										Total Risk Across All Exposure Routes/Pathways	1.2E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.36.2.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	3.3E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	4.2E-08	mg/kg-day	--	--	--
	4-Ethyl Toluene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	4.5E-07	mg/kg-day	--	--	--
	Benzene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	4.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.3E-08
	Ethylbenzene	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	6.1E-07	mg/kg-day	--	--	--
	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	7.1E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Xylenes	1.9E-05	mg/m^3	1.9E-05	mg/m^3	M	6.2E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.36.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	7.5E-03	--	4.2E-06	7.5E-03
			Manganese	--	--	--	--	Manganese	CNS	1.5E-03	--	8.3E-06	1.5E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	4.0E-09	--	2.9E-10	4.3E-09	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	3.9E-08	--	2.8E-09	4.2E-08	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	3.9E-09	--	2.9E-10	4.2E-09	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	6.1E-09	--	4.4E-10	6.5E-09	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	1.3E-08	--	9.8E-10	1.4E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.1E-09	--	3.7E-10	5.4E-09	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	7.1E-08	--	5.2E-09	7.6E-08	(Total)		8.9E-03	--	1.2E-05	8.9E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	3.4E-09	--	3.4E-09	Cadmium	Kidney	--	4.2E-04	--	4.2E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.2E-03	--	1.2E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	4.2E-13	--	4.2E-13	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	4.1E-12	--	4.1E-12	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	4.1E-13	--	4.1E-13	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	6.4E-13	--	6.4E-13	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	4.3E-12	--	4.3E-12	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	5.3E-13	--	5.3E-13	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	3.4E-09	--	3.4E-09	(Total)		--	1.6E-03	--	1.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.5E-04	--	2.5E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	3.2E-05	--	3.2E-05
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.0E-06	--	3.0E-06
			Benzene	--	5.4E-09	--	5.4E-09	Benzene	Blood	--	3.3E-05	--	3.3E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-06	--	1.4E-06
			Tetrachloroethene	--	1.9E-09	--	1.9E-09	Tetrachloroethene	Liver/Kidney	--	9.5E-05	--	9.5E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.1E-06	--	4.1E-06
			(Total)	--	7.3E-09	--	7.3E-09	(Total)		--	4.2E-04	--	4.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.0E-08	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.1E-02
Total Risk for Shallow Soil-to-Indoor Air =	7.3E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.36.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	1.0E-01	--	8.3E-05	1.0E-01
			Manganese	--	--	--	--	Manganese	CNS	2.0E-02	--	1.6E-04	2.1E-02
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	2.3E-08	--	2.0E-09	2.5E-08	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	2.3E-07	--	1.9E-08	2.4E-07	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	2.3E-08	--	1.9E-09	2.5E-08	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	3.5E-08	--	3.0E-09	3.8E-08	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	7.8E-08	--	6.6E-09	8.4E-08	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.9E-08	--	2.5E-09	3.2E-08	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	4.1E-07	--	3.5E-08	4.5E-07	(Total)		1.2E-01	--	2.5E-04	1.2E-01
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	1.2E-08	--	1.2E-08	Cadmium	Kidney	--	2.0E-03	--	2.0E-03
			Manganese	--	--	--	--	Manganese	CNS	--	5.6E-03	--	5.6E-03
			SVOCs					**SVOCs**					
			Benzo(a)anthracene	--	1.4E-12	--	1.4E-12	Benzo(a)anthracene	--	--	--	--	--
			Benzo(a)pyrene	--	1.4E-11	--	1.4E-11	Benzo(a)pyrene	--	--	--	--	--
			Benzo(b)fluoranthene	--	1.4E-12	--	1.4E-12	Benzo(b)fluoranthene	--	--	--	--	--
			Benzo(k)fluoranthene	--	2.2E-12	--	2.2E-12	Benzo(k)fluoranthene	--	--	--	--	--
			Dibenzo(a,h)anthracene	--	1.5E-11	--	1.5E-11	Dibenzo(a,h)anthracene	--	--	--	--	--
			Indeno(1,2,3-cd)pyrene	--	1.8E-12	--	1.8E-12	Indeno(1,2,3-cd)pyrene	--	--	--	--	--
			(Total)	--	1.2E-08	--	1.2E-08	(Total)		--	7.6E-03	--	7.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.8E-03	--	2.8E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	3.6E-04	--	3.6E-04
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.4E-05	--	3.4E-05
			Benzene	--	4.3E-08	--	4.3E-08	Benzene	Blood	--	3.7E-04	--	3.7E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.6E-05	--	1.6E-05
			Tetrachloroethene	--	1.5E-08	--	1.5E-08	Tetrachloroethene	Liver/Kidney	--	1.1E-03	--	1.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.6E-05	--	4.6E-05
			(Total)	--	5.8E-08	--	5.8E-08	(Total)		--	4.7E-03	--	4.7E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	4.6E-07	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.3E-01
Total Risk for Shallow Soil-to-Indoor Air =	5.8E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.7E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (S)	**EAPC No.:** 37

CT Exposure Scenario

TABLE 7.37.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.4E-06	mg/kg-day	1.0E-03	mg/kg-day	5.4E-03
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	1.9E-04	mg/kg-day	1.4E-01	mg/kg-day	1.4E-03
	(Total)										6.8E-03
Dermal	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.0E-09	mg/kg-day	1.0E-03	mg/kg-day	3.0E-06
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	1.1E-06	mg/kg-day	1.4E-01	mg/kg-day	7.7E-06
	(Total)										1.1E-05
										Total Hazard Index Across All Exposure Routes/Pathways	6.8E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapor/particulate
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	1.8E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	3.1E-04
	Manganese	4.2E+02	mg/kg	6.2E-07	mg/m^3	R	6.2E-08	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.5E-06	mg/m^3	1.5E-06	mg/m^3	M	1.5E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.5E-05
	1,3,5-Trimethylbenzene	9.6E-08	mg/m^3	9.6E-08	mg/m^3	M	9.5E-09	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	5.5E-06
	Benzene	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	7.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.5E-05
	Chloroform	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	5.8E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.8E-06
	Ethylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	2.6E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.6E-05
	Styrene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	2.4E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.4E-06
	Tetrachloroethene	6.9E-06	mg/m^3	6.9E-06	mg/m^3	M	6.8E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.8E-05
	Toluene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.4E-05
	Trichloroethene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	4.1E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.4E-06
	Xylenes	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	7.2E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	2.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.6E-07	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	9.0E-05
	1,2-Dichloroethane	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	3.0E-05	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	2.6E-04
	Benzene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.3E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-01
	Chloroform	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-05
	Ethylbenzene	3.9E-03	mg/m^3	3.9E-03	mg/m^3	M	3.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.8E-04
	Toluene	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	7.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.4E-05
	Trichloroethene	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.6E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.8E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Oral/Dermal Reference Dose (2)	Oral/Dermal Reference Dose Units	Hazard Quotient
Ingestion	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	7.5E-05	mg/kg-day	1.0E-03	mg/kg-day	7.5E-02
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	2.7E-03	mg/kg-day	1.4E-01	mg/kg-day	1.9E-02
	(Total)										9.4E-02
Dermal	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.0E-08	mg/kg-day	1.0E-03	mg/kg-day	6.0E-05
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	2.1E-05	mg/kg-day	1.4E-01	mg/kg-day	1.5E-04
	(Total)										2.1E-04
										Total Hazard Index Across All Exposure Routes/Pathways	9.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**Inorganics**												
	Cadmium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	8.4E-09	mg/kg-day	5.7E-06	mg/kg-day	2.0E-05	mg/m3	1.5E-03
	Manganese	4.2E+02	mg/kg	6.2E-07	mg/m^3	R	2.9E-07	mg/kg-day	5.7E-05	mg/kg-day	2.0E-04	mg/m3	5.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	6.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	3.5E-06	mg/m^3	3.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.6E-04
	1,3,5-Trimethylbenzene	2.3E-07	mg/m^3	2.3E-07	mg/m^3	M	1.1E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.2E-05
	Benzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	8.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.1E-04
	Chloroform	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	6.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.6E-05
	Ethylbenzene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	3.0E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.2E-04
	Styrene	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	2.7E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-04
	Tetrachloroethene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	7.7E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.7E-04
	Toluene	2.9E-05	mg/m^3	2.9E-05	mg/m^3	M	1.4E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.6E-04
	Trichloroethene	9.8E-06	mg/m^3	9.8E-06	mg/m^3	M	4.6E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.7E-05
	Xylenes	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	8.1E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.1E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.2E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	4.1E-06	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	1.0E-03
	1,2-Dichloroethane	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	3.4E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.0E-03
	Benzene	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	2.6E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E+00
	Chloroform	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.2E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.4E-04
	Ethylbenzene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	4.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	7.6E-03
	Toluene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	8.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.4E-04
	Trichloroethene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	7.4E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.37.1.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15')
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.1E-07	mg/kg-day	--	--	--
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	1.8E-05	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.9E-10	mg/kg-day	--	--	--
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	1.0E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow Soil vapors/particulates
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	1.7E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	2.5E-09
	Manganese	4.2E+02	mg/kg	6.2E-07	mg/m^3	R	5.8E-09	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.5E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.5E-06	mg/m^3	1.5E-06	mg/m^3	M	1.4E-08	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	9.6E-08	mg/m^3	9.6E-08	mg/m^3	M	9.0E-10	mg/kg-day	--	--	--
	Benzene	7.8E-06	mg/m^3	7.8E-06	mg/m^3	M	7.3E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.3E-09
	Chloroform	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	5.5E-08	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.0E-09
	Ethylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	2.5E-06	mg/kg-day	--	--	--
	Styrene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	2.3E-07	mg/kg-day	--	--	--
	Tetrachloroethene	6.9E-06	mg/m^3	6.9E-06	mg/m^3	M	6.4E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-09
	Toluene	1.2E-05	mg/m^3	1.2E-05	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	Trichloroethene	4.2E-06	mg/m^3	4.2E-06	mg/m^3	M	3.9E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-10
	Xylenes	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	6.8E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.9E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	3.4E-08	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	1,2-Dichloroethane	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	2.8E-06	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	2.0E-07
	Benzene	2.3E-02	mg/m^3	2.3E-02	mg/m^3	M	2.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.2E-05
	Chloroform	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.0E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.9E-09
	Ethylbenzene	3.9E-03	mg/m^3	3.9E-03	mg/m^3	M	3.6E-05	mg/kg-day	--	--	--
	Toluene	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	6.8E-07	mg/kg-day	--	--	--
	Trichloroethene	6.7E-06	mg/m^3	6.7E-06	mg/m^3	M	6.2E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.4E-10
										Total Risk Across All Exposure Routes/Pathways	2.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.CT
CT CALCULATION OF CANCER RISKS
INGESTION/DERMAL ABSORPTION OF SHALLOW SOIL: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil
Exposure Medium: Shallow Soil
Exposure Point: Shallow Soil (0-15' bgs)
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Oral/Dermal Cancer Slope Factor	Oral/Dermal Cancer Slope Factor Units	Cancer Risk
Ingestion	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.0E-06	mg/kg-day	--	--	--
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	1.0E-04	mg/kg-day	--	--	--
	(Total)										--
Dermal	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.0E-09	mg/kg-day	--	--	--
	Manganese	4.2E+02	mg/kg	4.2E+02	mg/kg	M	6.9E-07	mg/kg-day	--	--	--
	(Total)										--
										Total Risk Across All Exposure Routes/Pathways	--

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF SHALLOW SOIL VAPORS/PARTICULATES: RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Ambient Air
Exposure Point: Shallow soil vapors/particulates
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**Inorganics**										
	Cadmium	1.2E+01	mg/kg	1.8E-08	mg/m^3	R	5.6E-10	mg/kg-day	1.5E+01	$mg/kg\text{-}day^{-1}$	8.4E-09
	Manganese	4.2E+02	mg/kg	6.2E-07	mg/m^3	R	2.0E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	8.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	3.5E-06	mg/m^3	3.5E-06	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.3E-07	mg/m^3	2.3E-07	mg/m^3	M	7.1E-09	mg/kg-day	--	--	--
	Benzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	5.8E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.8E-08
	Chloroform	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	4.4E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	8.3E-09
	Ethylbenzene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	Styrene	5.7E-05	mg/m^3	5.7E-05	mg/m^3	M	1.8E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	5.1E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-08
	Toluene	2.9E-05	mg/m^3	2.9E-05	mg/m^3	M	9.1E-07	mg/kg-day	--	--	--
	Trichloroethene	9.8E-06	mg/m^3	9.8E-06	mg/m^3	M	3.1E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.2E-09
	Xylenes	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	5.4E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	8.6E-06	mg/m^3	8.6E-06	mg/m^3	M	2.7E-07	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	1,2-Dichloroethane	7.1E-04	mg/m^3	7.1E-04	mg/m^3	M	2.3E-05	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	1.6E-06
	Benzene	5.5E-02	mg/m^3	5.5E-02	mg/m^3	M	1.7E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-04
	Chloroform	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	8.0E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Ethylbenzene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	2.9E-04	mg/kg-day	--	--	--
	Toluene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	5.4E-06	mg/kg-day	--	--	--
	Trichloroethene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	5.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
										Total Risk Across All Exposure Routes/Pathways	1.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.37.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	5.4E-03	--	3.0E-06	5.4E-03
			Manganese	--	--	--	--	Manganese	CNS	1.4E-03	--	7.7E-06	1.4E-03
			(Total)	--	--	--	--	(Total)		6.8E-03	--	1.1E-05	6.8E-03
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	2.5E-09	--	2.5E-09	Cadmium	Kidney	--	3.1E-04	--	3.1E-04
			Manganese	--	--	--	--	Manganese	CNS	--	1.1E-03	--	1.1E-03
			(Total)	--	2.5E-09	--	2.5E-09	(Total)		--	1.4E-03	--	1.4E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	8.5E-05	--	8.5E-05
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	5.5E-06	--	5.5E-06
			Benzene	--	7.3E-09	--	7.3E-09	Benzene	Blood	--	4.5E-05	--	4.5E-05
			Chloroform	--	1.0E-09	--	1.0E-09	Chloroform	Kidney	--	6.8E-06	--	6.8E-06
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.6E-05	--	4.6E-05
			Styrene	--	--	--	--	Styrene	CNS	--	9.4E-06	--	9.4E-06
			Tetrachloroethene	--	1.4E-09	--	1.4E-09	Tetrachloroethene	Liver/Kidney	--	6.8E-05	--	6.8E-05
			Toluene	--	--	--	--	Toluene	CNS	--	1.4E-05	--	1.4E-05
			Trichloroethene	--	2.7E-10	--	2.7E-10	Trichloroethene	CNS	--	2.4E-06	--	2.4E-06
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.6E-06	--	3.6E-06
			(Total)	--	9.9E-09	--	9.9E-09	(Total)		--	2.9E-04	--	2.9E-04
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.9E-09	--	1.9E-09	1,1,2-Trichloroethane	NOAEL	--	9.0E-05	--	9.0E-05
			1,2-Dichloroethane	--	2.0E-07	--	2.0E-07	1,2-Dichloroethane	Liver	--	2.6E-04	--	2.6E-04
			Benzene	--	2.2E-05	--	2.2E-05	Benzene	Blood	--	1.4E-01	--	1.4E-01
			Chloroform	--	1.9E-09	--	1.9E-09	Chloroform	Kidney	--	1.2E-05	--	1.2E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.8E-04	--	6.8E-04
			Toluene	--	--	--	--	Toluene	CNS	--	8.4E-05	--	8.4E-05
			Trichloroethene	--	4.4E-10	--	4.4E-10	Trichloroethene	CNS	--	3.8E-06	--	3.8E-06
			(Total)	--	2.2E-05	--	2.2E-05	(Total)		--	1.4E-01	--	1.4E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	2.5E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	8.2E-03
Total Risk for Shallow Soil-to-Indoor Air =	9.9E-09	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.9E-04
Total Risk for Deep Soil-to-Indoor Air =	2.2E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	1.4E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.37.2.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Surface and Subsurface Soil	Shallow Soil (0-15' bgs)	**Inorganics**					**Inorganics**					
			Cadmium	--	--	--	--	Cadmium	Kidney	7.5E-02	--	6.0E-05	7.5E-02
			Manganese	--	--	--	--	Manganese	CNS	1.9E-02	--	1.5E-04	1.9E-02
			(Total)	--	--	--	--	(Total)		9.4E-02	--	2.1E-04	9.5E-02
	Outdoor Air	Shallow soil vapors and particulates in Ambient Air	**Inorganics**					**Inorganics**					
			Cadmium	--	8.4E-09	--	8.4E-09	Cadmium	Kidney	--	1.5E-03	--	1.5E-03
			Manganese	--	--	--	--	Manganese	CNS	--	5.2E-03	--	5.2E-03
			(Total)	--	8.4E-09	--	8.4E-09	(Total)		--	6.6E-03	--	6.6E-03
	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.6E-04	--	9.6E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	6.2E-05	--	6.2E-05
			Benzene	--	5.8E-08	--	5.8E-08	Benzene	Blood	--	5.1E-04	--	5.1E-04
			Chloroform	--	8.3E-09	--	8.3E-09	Chloroform	Kidney	--	7.6E-05	--	7.6E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.2E-04	--	5.2E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-04	--	1.1E-04
			Tetrachloroethene	--	1.1E-08	--	1.1E-08	Tetrachloroethene	Liver/Kidney	--	7.7E-04	--	7.7E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.6E-04	--	1.6E-04
			Trichloroethene	--	2.2E-09	--	2.2E-09	Trichloroethene	CNS	--	2.7E-05	--	2.7E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.1E-05	--	4.1E-05
			(Total)	--	7.9E-08	--	7.9E-08	(Total)		--	3.2E-03	--	3.2E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.5E-08	--	1.5E-08	1,1,2-Trichloroethane	NOAEL	--	1.0E-03	--	1.0E-03
			1,2-Dichloroethane	--	1.6E-06	--	1.6E-06	1,2-Dichloroethane	Liver	--	3.0E-03	--	3.0E-03
			Benzene	--	1.7E-04	--	1.7E-04	Benzene	Blood	--	1.5E+00	--	1.5E+00
			Chloroform	--	1.5E-08	--	1.5E-08	Chloroform	Kidney	--	1.4E-04	--	1.4E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	7.6E-03	--	7.6E-03
			Toluene	--	--	--	--	Toluene	CNS	--	9.4E-04	--	9.4E-04
			Trichloroethene	--	3.5E-09	--	3.5E-09	Trichloroethene	CNS	--	4.3E-05	--	4.3E-05
			(Total)	--	1.8E-04	--	1.8E-04	(Total)		--	1.5E+00	--	1.5E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	8.4E-09	Total Hazard Index Across Shallow Soil (0-15' bgs) =	1.0E-01
Total Risk for Shallow Soil-to-Indoor Air =	7.9E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.2E-03
Total Risk for Deep Soil-to-Indoor Air =	1.8E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	1.5E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Site-Wide Ambient Air

CT Exposure Scenario

TABLE 7.38.1.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OF AMBIENT AIR VAPORS: COMMERCIAL WORKER
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Current
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.4E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	4.9E-03
	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	5.7E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E-02
	Chloroform	7.7E-04	mg/m^3	7.7E-04	mg/m^3	M	7.6E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	8.8E-04
	Cyclohexane	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	5.3E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.1E-04
	Ethylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	5.0E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.8E-04
	Methyl Ethyl Ketone	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	8.4E-04	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	5.9E-04
	Methylene chloride	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.6E-03
	Styrene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	2.5E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.9E-04
	Tetrachloroethene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.4E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.4E-02
	Toluene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	2.0E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.4E-02
	Trichloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.6E-04
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.8E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	9.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.38.1.CT

CT CALCULATION OF CANCER RISKS

INHALATION OF AMBIENT AIR VAPORS: COMMERCIAL WORKER

PARCEL LOCATION: Site-Wide Ambient Air Background

Del Amo Site

Scenario Timeframe: Current
Medium: Ambient Air
Exposure Medium: Ambient Air
Exposure Point: Ambient Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	1.3E-04	mg/kg-day	--	--	--
	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	5.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.4E-06
	Chloroform	7.7E-04	mg/m^3	7.7E-04	mg/m^3	M	7.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.4E-07
	Cyclohexane	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	5.0E-05	mg/kg-day	--	--	--
	Ethylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	4.7E-05	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	7.9E-05	mg/kg-day	--	--	--
	Methylene chloride	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	1.7E-05	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	5.9E-08
	Styrene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	2.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	3.2E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.7E-07
	Toluene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.9E-04	mg/kg-day	--	--	--
	Trichloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.1E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.4E-08
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.7E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.3E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.38.1.CT
CT SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Current
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Ambient Air	Outdoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	4.9E-03	--	4.9E-03
			Benzene	--	5.4E-06	--	5.4E-06	Benzene	Blood	--	3.3E-02	--	3.3E-02
			Chloroform	--	1.4E-07	--	1.4E-07	Chloroform	Kidney	--	8.8E-04	--	8.8E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.1E-04	--	3.1E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.8E-04	--	8.8E-04
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	5.9E-04	--	5.9E-04
			Methylene chloride	--	5.9E-08	--	5.9E-08	Methylene chloride	Liver	--	1.6E-03	--	1.6E-03
			Styrene	--	--	--	--	Styrene	CNS	--	9.9E-04	--	9.9E-04
			Tetrachloroethene	--	6.7E-07	--	6.7E-07	Tetrachloroethene	Liver/Kidney	--	3.4E-02	--	3.4E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.4E-02	--	2.4E-02
			Trichloroethene	--	7.4E-08	--	7.4E-08	Trichloroethene	CNS	--	6.6E-04	--	6.6E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	9.1E-03	--	9.1E-03
			(Total)	--	6.3E-06	--	6.3E-06	(Total)		--	1.1E-01	--	1.1E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Ambient Air =	6.3E-06	Total Hazard Index for Ambient Air =	1.1E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 7.38.2.CT
CT CALCULATION OF NONCANCER HAZARDS
INHALATION OFAMBIENT AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Air
Exposure Medium: Ambient Air
Exposure Point: Outdoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	9.1E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	3.2E-02
	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	3.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-01
	Chloroform	7.7E-04	mg/m^3	7.7E-04	mg/m^3	M	4.9E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.7E-03
	Cyclohexane	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	3.4E-03	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	2.0E-03
	Ethylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	3.2E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	5.7E-03
	Methyl Ethyl Ketone	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	5.4E-03	mg/kg-day	1.4E+00	mg/kg-day	5.0E+00	mg/m3	3.8E-03
	Methylene chloride	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.0E-02
	Styrene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.6E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.4E-03
	Tetrachloroethene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	2.2E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.2E-01
	Toluene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	1.3E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-01
	Trichloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	7.3E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.3E-03
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	1.2E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	7.2E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.38.2.CT
CT CALCULATION OF CANCER RISKS
INHALATION OFAMBIENT AIR VAPORS: RESIDENT
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Medium: Air
Exposure Medium: Ambient Air
Exposure Point: Outdoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.1E-03	mg/kg-day	--	--	--
	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	8.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.6E-05
	Chloroform	7.7E-04	mg/m^3	7.7E-04	mg/m^3	M	1.1E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.2E-06
	Cyclohexane	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.9E-04	mg/kg-day	--	--	--
	Ethylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	7.5E-04	mg/kg-day	--	--	--
	Methyl Ethyl Ketone	8.5E-03	mg/m^3	8.5E-03	mg/m^3	M	1.3E-03	mg/kg-day	--	--	--
	Methylene chloride	1.8E-03	mg/m^3	1.8E-03	mg/m^3	M	2.7E-04	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	9.5E-07
	Styrene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	3.8E-04	mg/kg-day	--	--	--
	Tetrachloroethene	3.4E-03	mg/m^3	3.4E-03	mg/m^3	M	5.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-05
	Toluene	2.1E-02	mg/m^3	2.1E-02	mg/m^3	M	3.1E-03	mg/kg-day	--	--	--
	Trichloroethene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.7E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.2E-06
	Xylenes	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.7E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.38.2.CT
CT SUMMARY OF CANCER RISK AND NONCANCER HAZARD
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Site-Wide Ambient Air Background
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Air	Ambient Air	Outdoor Air	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	3.2E-02	--	3.2E-02
			Benzene	--	8.6E-05	--	8.6E-05	Benzene	Blood	--	2.2E-01	--	2.2E-01
			Chloroform	--	2.2E-06	--	2.2E-06	Chloroform	Kidney	--	5.7E-03	--	5.7E-03
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	2.0E-03	--	2.0E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	5.7E-03	--	5.7E-03
			Methyl Ethyl Ketone	--	--	--	--	Methyl Ethyl Ketone	Developmental	--	3.8E-03	--	3.8E-03
			Methylene chloride	--	9.5E-07	--	9.5E-07	Methylene chloride	Liver	--	1.0E-02	--	1.0E-02
			Styrene	--	--	--	--	Styrene	CNS	--	6.4E-03	--	6.4E-03
			Tetrachloroethene	--	1.1E-05	--	1.1E-05	Tetrachloroethene	Liver/Kidney	--	2.2E-01	--	2.2E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-01	--	1.5E-01
			Trichloroethene	--	1.2E-06	--	1.2E-06	Trichloroethene	CNS	--	4.3E-03	--	4.3E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.9E-02	--	5.9E-02
			(Total)	--	1.0E-04	--	1.0E-04	(Total)		--	7.2E-01	--	7.2E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Ambient Air =	1.0E-04	Total Hazard Index for Ambient Air =	7.2E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-17	**EAPC No.:** 5

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.5.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.3E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.4E-01
	2-Hexanone	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	4.4E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	5.2E-03
	4-Ethyl Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.2E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.6E-03
	Acetone	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.8E-03
	Benzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	2.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-03
	Carbon Disulfide	6.6E-02	mg/m^3	6.6E-02	mg/m^3	M	9.7E-03	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	4.2E-02
	Cyclohexane	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	5.9E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.4E-02
	Ethylbenzene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	9.8E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-05
	n-Heptane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.3E-02	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.2E-02
	n-Hexane	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	9.4E-03	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	4.7E-03
	Methyl isobutyl ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	2.7E-03	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.1E-03
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.5E-02
	Toluene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	1.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.2E-04
	Trichloroethene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	9.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.3E-04
	Xylenes	6.5E-04	mg/m^3	6.5E-04	mg/m^3	M	9.5E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	1.1E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.2E-02
	Benzene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	1.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.0E-03
	Ethylbenzene	9.3E-05	mg/m^3	9.3E-05	mg/m^3	M	1.4E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.4E-05
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	5.7E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.2E-03
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.3E-03
	Toluene	8.6E-04	mg/m^3	8.6E-04	mg/m^3	M	1.3E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-03
	Xylenes	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	2.7E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	7.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Chronic reference dose.

TABLE 7.5.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	6.3E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	3.7E+00
	2-Hexanone	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	4.5E-02	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	5.3E-02
	4-Ethyl Toluene	7.3E-03	mg/m^3	7.3E-03	mg/m^3	M	4.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-02
	Acetone	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.5E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	2.8E-02
	Benzene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	1.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-01
	Carbon Disulfide	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	3.2E-01	mg/kg-day	2.3E-01	mg/kg-day	8.0E-01	mg/m3	1.4E+00
	Cyclohexane	1.3E+01	mg/m^3	1.3E+01	mg/m^3	M	8.2E+00	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.8E+00
	Ethylbenzene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	1.8E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-03
	n-Heptane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	2.4E-01	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	1.2E-01
	n-Hexane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.0E-01	mg/kg-day	2.0E+00	mg/kg-day	7.0E+00	mg/m3	5.1E-02
	Methyl isobutyl ketone	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	2.7E-02	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.2E-02
	Tetrachloroethene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	3.3E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E+00
	Toluene	5.6E-03	mg/m^3	5.6E-03	mg/m^3	M	3.6E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.2E-02
	Trichloroethene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	2.0E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-01
	Xylenes	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	2.0E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.5.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.4E-01
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	9.8E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.7E-02
	Ethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.3E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.3E-04
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	5.8E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-02
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	3.5E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.3E-02
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	1.2E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.4E-02
	Xylenes	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	2.6E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.3E-03
												Total Hazard Index Across All Exposure Routes/Pathways	7.5E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.5.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	8.4E-05	mg/kg-day	--	--	--
	2-Hexanone	3.0E-02	mg/m^3	3.0E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
	Acetone	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	8.9E-04	mg/kg-day	--	--	--
	Benzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	8.7E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.7E-07
	Carbon Disulfide	6.6E-02	mg/m^3	6.6E-02	mg/m^3	M	3.5E-03	mg/kg-day	--	--	--
	Cyclohexane	4.0E-01	mg/m^3	4.0E-01	mg/m^3	M	2.1E-02	mg/kg-day	--	--	--
	Ethylbenzene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	3.5E-06	mg/kg-day	--	--	--
	n-Heptane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	8.3E-03	mg/kg-day	--	--	--
	n-Hexane	6.4E-02	mg/m^3	6.4E-02	mg/m^3	M	3.4E-03	mg/kg-day	--	--	--
	Methyl isobutyl ketone	1.8E-02	mg/m^3	1.8E-02	mg/m^3	M	9.5E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	5.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-06
	Toluene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	6.8E-06	mg/kg-day	--	--	--
	Trichloroethene	6.2E-04	mg/m^3	6.2E-04	mg/m^3	M	3.3E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.3E-07
	Xylenes	6.5E-04	mg/m^3	6.5E-04	mg/m^3	M	3.4E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	3.8E-05	mg/kg-day	--	--	--
	Benzene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	3.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.7E-06
	Ethylbenzene	9.3E-05	mg/m^3	9.3E-05	mg/m^3	M	4.9E-06	mg/kg-day	--	--	--
	Naphthalene	3.9E-05	mg/m^3	3.9E-05	mg/m^3	M	2.0E-06	mg/kg-day	--	--	--
	Styrene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.2E-04	mg/kg-day	--	--	--
	Toluene	8.6E-04	mg/m^3	8.6E-04	mg/m^3	M	4.5E-05	mg/kg-day	--	--	--
	Xylenes	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	9.7E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	9.8E-03	mg/m^3	9.8E-03	mg/m^3	M	1.5E-03	mg/kg-day	--	--	--
	2-Hexanone	7.1E-02	mg/m^3	7.1E-02	mg/m^3	M	1.1E-02	mg/kg-day	--	--	--
	4-Ethyl Toluene	7.3E-03	mg/m^3	7.3E-03	mg/m^3	M	1.1E-03	mg/kg-day	--	--	--
	Acetone	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.9E-03	mg/kg-day	--	--	--
	Benzene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	4.1E-04	mg/kg-day	1.0E-01	mg/kg-day^{-1}	4.1E-05
	Carbon Disulfide	5.0E-01	mg/m^3	5.0E-01	mg/m^3	M	7.5E-02	mg/kg-day	--	--	--
	Cyclohexane	1.3E+01	mg/m^3	1.3E+01	mg/m^3	M	1.9E+00	mg/kg-day	--	--	--
	Ethylbenzene	2.8E-03	mg/m^3	2.8E-03	mg/m^3	M	4.2E-04	mg/kg-day	--	--	--
	n-Heptane	3.7E-01	mg/m^3	3.7E-01	mg/m^3	M	5.5E-02	mg/kg-day	--	--	--
	n-Hexane	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.4E-02	mg/kg-day	--	--	--
	Methyl isobutyl ketone	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	6.3E-03	mg/kg-day	--	--	--
	Tetrachloroethene	5.1E-02	mg/m^3	5.1E-02	mg/m^3	M	7.6E-03	mg/kg-day	2.1E-02	mg/kg-day^{-1}	1.6E-04
	Toluene	5.6E-03	mg/m^3	5.6E-03	mg/m^3	M	8.4E-04	mg/kg-day	--	--	--
	Trichloroethene	3.1E-02	mg/m^3	3.1E-02	mg/m^3	M	4.7E-03	mg/kg-day	7.0E-03	mg/kg-day^{-1}	3.3E-05
	Xylenes	3.2E-03	mg/m^3	3.2E-03	mg/m^3	M	4.8E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.5.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	2.5E-04	mg/kg-day	--	--	--
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.3E-05
	Ethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.1E-05	mg/kg-day	--	--	--
	Naphthalene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Styrene	5.4E-03	mg/m^3	5.4E-03	mg/m^3	M	8.0E-04	mg/kg-day	--	--	--
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	2.9E-04	mg/kg-day	--	--	--
	Xylenes	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	6.2E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.5.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.4E-01	--	1.4E-01
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	5.2E-03	--	5.2E-03
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	1.6E-03	--	1.6E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	2.8E-03	--	2.8E-03
			Benzene	--	8.7E-07	--	8.7E-07	Benzene	Blood	--	1.4E-03	--	1.4E-03
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	4.2E-02	--	4.2E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.4E-02	--	3.4E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-05	--	1.7E-05
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	1.2E-02	--	1.2E-02
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	4.7E-03	--	4.7E-03
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.1E-03	--	3.1E-03
			Tetrachloroethene	--	1.1E-06	--	1.1E-06	Tetrachloroethene	Liver/Kidney	--	1.5E-02	--	1.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.2E-04	--	2.2E-04
			Trichloroethene	--	2.3E-07	--	2.3E-07	Trichloroethene	CNS	--	5.3E-04	--	5.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.8E-04	--	4.8E-04
			(Total)	--	2.2E-06	--	2.2E-06	(Total)		--	2.6E-01	--	2.6E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.2E-02	--	6.2E-02
			Benzene	--	3.7E-06	--	3.7E-06	Benzene	Blood	--	6.0E-03	--	6.0E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.4E-05	--	2.4E-05
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.2E-03	--	2.2E-03
			Styrene	--	--	--	--	Styrene	CNS	--	1.3E-03	--	1.3E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-03	--	1.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.4E-04	--	1.4E-04
			(Total)	--	3.7E-06	--	3.7E-06	(Total)		--	7.3E-02	--	7.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.2E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.6E-01
Total Risk for Deep Soil-to-Indoor Air =	3.7E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	7.3E-02
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.5.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-17
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	3.7E+00	--	3.7E+00
			2-Hexanone	--	--	--	--	2-Hexanone	Weight	--	5.3E-02	--	5.3E-02
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	2.3E-02	--	2.3E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	2.8E-02	--	2.8E-02
			Benzene	--	4.1E-05	--	4.1E-05	Benzene	Blood	--	1.0E-01	--	1.0E-01
			Carbon Disulfide	--	--	--	--	Carbon Disulfide	Nervous System	--	1.4E+00	--	1.4E+00
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.8E+00	--	4.8E+00
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-03	--	3.1E-03
			n-Heptane	--	--	--	--	n-Heptane	PNS	--	1.2E-01	--	1.2E-01
			n-Hexane	--	--	--	--	n-Hexane	PNS	--	5.1E-02	--	5.1E-02
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.2E-02	--	3.2E-02
			Tetrachloroethene	--	1.6E-04	--	1.6E-04	Tetrachloroethene	Liver/Kidney	--	3.3E+00	--	3.3E+00
			Toluene	--	--	--	--	Toluene	CNS	--	4.2E-02	--	4.2E-02
			Trichloroethene	--	3.3E-05	--	3.3E-05	Trichloroethene	CNS	--	1.2E-01	--	1.2E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.0E-02	--	1.0E-02
			(Total)	--	2.3E-04	--	2.3E-04	(Total)		--	1.4E+01	--	1.4E+01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.4E-01	--	6.4E-01
			Benzene	--	2.3E-05	--	2.3E-05	Benzene	Blood	--	5.7E-02	--	5.7E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.3E-04	--	2.3E-04
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-02	--	2.3E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.3E-02	--	1.3E-02
			Toluene	--	--	--	--	Toluene	CNS	--	1.4E-02	--	1.4E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.3E-03	--	1.3E-03
			(Total)	--	2.3E-05	--	2.3E-05	(Total)		--	7.5E-01	--	7.5E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.3E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.4E+01
Total Risk for Deep Soil-to-Indoor Air =	2.3E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	7.5E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-22	**EAPC No.:** 6

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.6.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	1.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	6.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	4.8E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-04
	Ethylbenzene	5.8E-05	mg/m^3	5.8E-05	mg/m^3	M	8.5E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-05
	Toluene	9.4E-05	mg/m^3	9.4E-05	mg/m^3	M	1.4E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.6E-04
	Xylenes	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	4.4E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.2E-04
												Total Hazard Index Across All Exposure Routes/Pathways	6.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	8.8E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.1E-01
												Total Hazard Index Across All Exposure Routes/Pathways	5.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.6.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.5E-05	mg/m^3	7.5E-05	mg/m^3	M	4.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-03
	Ethylbenzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	1.2E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E-04
	Toluene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	2.0E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.3E-03
	Xylenes	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	6.5E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	8.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.6.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.0E-04	mg/m^3	7.0E-04	mg/m^3	M	3.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.7E-06
										Total Risk Across All Exposure Routes/Pathways	3.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	1.7E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-07
	Ethylbenzene	5.8E-05	mg/m^3	5.8E-05	mg/m^3	M	3.0E-06	mg/kg-day	--	--	--
	Toluene	9.4E-05	mg/m^3	9.4E-05	mg/m^3	M	4.9E-06	mg/kg-day	--	--	--
	Xylenes	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-04
										Total Risk Across All Exposure Routes/Pathways	2.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.6.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.5E-05	mg/m^3	7.5E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-06
	Ethylbenzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Toluene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	4.7E-05	mg/kg-day	--	--	--
	Xylenes	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.6.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.7E-06	--	3.7E-06	Benzene	Blood	--	6.0E-03	--	6.0E-03
			(Total)	--	3.7E-06	--	3.7E-06	(Total)		--	6.0E-03	--	6.0E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.7E-07	--	1.7E-07	Benzene	Blood	--	2.8E-04	--	2.8E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-05	--	1.5E-05
			Toluene	--	--	--	--	Toluene	CNS	--	1.6E-04	--	1.6E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.2E-04	--	2.2E-04
			(Total)	--	1.7E-07	--	1.7E-07	(Total)		--	6.7E-04	--	6.7E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.7E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.0E-03
Total Risk for Deep Soil-to-Indoor Air =	1.7E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	6.7E-04
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.6.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-22
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.0E-04	--	2.0E-04	Benzene	Blood	--	5.1E-01	--	5.1E-01
			(Total)	--	2.0E-04	--	2.0E-04	(Total)		--	5.1E-01	--	5.1E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.1E-06	--	1.1E-06	Benzene	Blood	--	2.8E-03	--	2.8E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E-04	--	2.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	2.3E-03	--	2.3E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.2E-03	--	3.2E-03
			(Total)	--	1.1E-06	--	1.1E-06	(Total)		--	8.6E-03	--	8.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.0E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.1E-01
Total Risk for Deep Soil-to-Indoor Air =	1.1E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	8.6E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-24	**EAPC No.:** 7

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.7.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	2.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.6E-01
	1,3,5-Trimethylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.8E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.2E-02
	Benzene	9.3E-05	mg/m^3	9.3E-05	mg/m^3	M	1.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.0E-04
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	1.2E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.0E-04
	Isopropylbenzene	2.3E-01	mg/m^3	2.3E-01	mg/m^3	M	3.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	3.0E-01
	p-Isopropyltoluene	3.6E-01	mg/m^3	3.6E-01	mg/m^3	M	5.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	4.7E-01
	Naphthalene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	2.6E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.0E-02
	n-Propylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	8.0E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	2.0E-03
	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.2E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.2E-02
	Xylenes	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.9E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.7.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	8.5E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	5.0E+00
	1,3,5-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	1.1E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.5E-01
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	8.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.7E-02
	Ethylbenzene	9.1E-03	mg/m^3	9.1E-03	mg/m^3	M	5.8E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.0E-02
	Isopropylbenzene	1.4E+00	mg/m^3	1.4E+00	mg/m^3	M	8.8E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	7.9E+00
	p-Isopropyltoluene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	1.5E+00	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.3E+01
	Naphthalene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	6.3E-04	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.5E-01
	n-Propylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.7E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.3E-02
	Tetrachloroethene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+00
	Xylenes	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	6.7E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2.8E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.7.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	9.8E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Benzene	9.3E-05	mg/m^3	9.3E-05	mg/m^3	M	4.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.9E-07
	Ethylbenzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	4.1E-05	mg/kg-day	--	--	--
	Isopropylbenzene	2.3E-01	mg/m^3	2.3E-01	mg/m^3	M	1.2E-02	mg/kg-day	--	--	--
	p-Isopropyltoluene	3.6E-01	mg/m^3	3.6E-01	mg/m^3	M	1.9E-02	mg/kg-day	--	--	--
	Naphthalene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	9.2E-06	mg/kg-day	--	--	--
	n-Propylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	7.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-06
	Xylenes	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.7.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-02	mg/m^3	1.3E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.7E-03	mg/m^3	1.7E-03	mg/m^3	M	2.6E-04	mg/kg-day	--	--	--
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.9E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-05
	Ethylbenzene	9.1E-03	mg/m^3	9.1E-03	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Isopropylbenzene	1.4E+00	mg/m^3	1.4E+00	mg/m^3	M	2.0E-01	mg/kg-day	--	--	--
	p-Isopropyltoluene	2.3E+00	mg/m^3	2.3E+00	mg/m^3	M	3.4E-01	mg/kg-day	--	--	--
	Naphthalene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	n-Propylbenzene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	4.0E-04	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.5E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-05
	Xylenes	1.0E-02	mg/m^3	1.0E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.7.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.6E-01	--	1.6E-01
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.2E-02	--	2.2E-02
			Benzene	--	4.9E-07	--	4.9E-07	Benzene	Blood	--	8.0E-04	--	8.0E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.0E-04	--	2.0E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	3.0E-01	--	3.0E-01
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	4.7E-01	--	4.7E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.0E-02	--	1.0E-02
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	2.0E-03	--	2.0E-03
			Tetrachloroethene	--	1.6E-06	--	1.6E-06	Tetrachloroethene	Liver/Kidney	--	2.2E-02	--	2.2E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.5E-03	--	1.5E-03
			(Total)	--	2.1E-06	--	2.1E-06	(Total)		--	9.9E-01	--	9.9E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.1E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.9E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.7.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-24
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	5.0E+00	--	5.0E+00
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	6.5E-01	--	6.5E-01
			Benzene	--	1.9E-05	--	1.9E-05	Benzene	Blood	--	4.7E-02	--	4.7E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.0E-02	--	1.0E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	7.9E+00	--	7.9E+00
			p-Isopropyltoluene	--	--	--	--	p-Isopropyltoluene	Kidney	--	1.3E+01	--	1.3E+01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.5E-01	--	2.5E-01
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.3E-02	--	4.3E-02
			Tetrachloroethene	--	5.3E-05	--	5.3E-05	Tetrachloroethene	Liver/Kidney	--	1.1E+00	--	1.1E+00
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.3E-02	--	3.3E-02
			(Total)	--	7.2E-05	--	7.2E-05	(Total)		--	2.8E+01	--	2.8E+01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	7.2E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.8E+01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-26	**EAPC No.:** 8

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.8.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.3E-05	mg/m^3	5.3E-05	mg/m^3	M	7.7E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.5E-04
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	5.4E-07	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	2.1E-05
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	4.6E-06	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	8.0E-05
	Xylenes	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	2.5E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-05
												Total Hazard Index Across All Exposure Routes/Pathways	5.6E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	2.3E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.2E-04	mg/m^3	4.2E-04	mg/m^3	M	2.7E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-02
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	5.5E-06	mg/kg-day	2.6E-02	mg/kg-day	9.0E-02	mg/m3	2.2E-04
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	4.7E-05	mg/kg-day	5.7E-02	mg/kg-day	2.0E-01	mg/m3	8.2E-04
	Xylenes	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	3.5E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.7E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.8.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	8.3E-05	mg/m^3	8.3E-05	mg/m^3	M	5.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.1E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.8.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.3E-05	mg/m^3	5.3E-05	mg/m^3	M	2.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-07
	Chloromethane	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	1.9E-07	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	1.2E-09
	Freon 12 (DCDFM)	3.1E-05	mg/m^3	3.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	--	--	--
	Xylenes	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	8.8E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	8.4E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.4E-08
										Total Risk Across All Exposure Routes/Pathways	8.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.2E-04	mg/m^3	4.2E-04	mg/m^3	M	6.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.2E-06
	Chloromethane	8.7E-06	mg/m^3	8.7E-06	mg/m^3	M	1.3E-06	mg/kg-day	6.3E-03	$mg/kg\text{-}day^{-1}$	8.1E-09
	Freon 12 (DCDFM)	7.3E-05	mg/m^3	7.3E-05	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	Xylenes	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	8.2E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.8.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-26
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	8.3E-05	mg/m^3	8.3E-05	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
										Total Risk Across All Exposure Routes/Pathways	1.2E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.8.1. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-26

Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.8E-07	--	2.8E-07	Benzene	Blood	--	4.5E-04	--	4.5E-04
			Chloromethane	--	1.2E-09	--	1.2E-09	Chloromethane	CNS	--	2.1E-05	--	2.1E-05
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	8.0E-05	--	8.0E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.2E-05	--	1.2E-05
			(Total)	--	2.8E-07	--	2.8E-07	(Total)		--	5.6E-04	--	5.6E-04
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	8.4E-08	--	8.4E-08	Benzene	Blood	--	1.4E-04	--	1.4E-04
			(Total)	--	8.4E-08	--	8.4E-08	(Total)		--	1.4E-04	--	1.4E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.8E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.6E-04
Total Risk for Deep Soil-to-Indoor Air =	8.4E-08	Total Hazard Index for Deep Soil-to-Indoor Air =	1.4E-04
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.8.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-26

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	6.2E-06	--	6.2E-06	Benzene	Blood	--	1.5E-02	--	1.5E-02
			Chloromethane	--	8.1E-09	--	8.1E-09	Chloromethane	CNS	--	2.2E-04	--	2.2E-04
			Freon 12 (DCDFM)	--	--	--	--	Freon 12 (DCDFM)	NOAEL	--	8.2E-04	--	8.2E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.8E-04	--	1.8E-04
			(Total)	--	6.2E-06	--	6.2E-06	(Total)		--	1.7E-02	--	1.7E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.2E-06	--	1.2E-06	Benzene	Blood	--	3.1E-03	--	3.1E-03
			(Total)	--	1.2E-06	--	1.2E-06	(Total)		--	3.1E-03	--	3.1E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	6.2E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.7E-02
Total Risk for Deep Soil-to-Indoor Air =	1.2E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	3.1E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-27	**EAPC No.:** 9

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.9.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.0E-05
	Benzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	3.9E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.3E-03
	Methyl isobutyl ketone	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.2E-05
	Xylenes	9.6E-07	mg/m^3	9.6E-07	mg/m^3	M	1.4E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.0E-07
												Total Hazard Index Across All Exposure Routes/Pathways	2.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	2.2E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-03
	Naphthalene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	8.6E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.2E-04
	Benzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	1.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.0E-02
	Methyl isobutyl ketone	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.8E-04	mg/kg-day	8.6E-01	mg/kg-day	3.0E+00	mg/m3	3.3E-04
	Xylenes	3.6E-06	mg/m^3	3.6E-06	mg/m^3	M	2.3E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.2E-05
												Total Hazard Index Across All Exposure Routes/Pathways	7.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.9.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	5.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-02
	Naphthalene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	8.8E-06	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	3.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.9.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	5.5E-08	mg/kg-day	--	--	--
	Benzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	1.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.4E-06
	Methyl isobutyl ketone	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	9.9E-06	mg/kg-day	--	--	--
	Xylenes	9.6E-07	mg/m^3	9.6E-07	mg/m^3	M	5.0E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.4E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	7.9E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.9E-07
	Naphthalene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	3.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.9E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.7E-07	mg/kg-day	--	--	--
	Benzene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	2.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.8E-05
	Methyl isobutyl ketone	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	Xylenes	3.6E-06	mg/m^3	3.6E-06	mg/m^3	M	5.4E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.9.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-27
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.9E-04	mg/m^3	7.9E-04	mg/m^3	M	1.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-05
	Naphthalene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.2E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.9.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-27
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**#REF!**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.0E-05	--	9.0E-05
			Benzene	--	1.4E-06	--	1.4E-06	Benzene	Blood	--	2.3E-03	--	2.3E-03
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.2E-05	--	3.2E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.0E-07	--	7.0E-07
			(Total)	--	1.4E-06	--	1.4E-06	(Total)		--	2.4E-03	--	2.4E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	7.9E-07	--	7.9E-07	Benzene	Blood	--	1.3E-03	--	1.3E-03
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.4E-04	--	3.4E-04
			(Total)	--	7.9E-07	--	7.9E-07	(Total)		--	1.6E-03	--	1.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.4E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.4E-03
Total Risk for Deep Soil-to-Indoor Air =	7.9E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	1.6E-03
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.9.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-33-27

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	9.2E-04	--	9.2E-04
			Benzene	--	2.8E-05	--	2.8E-05	Benzene	Blood	--	7.0E-02	--	7.0E-02
			Methyl isobutyl ketone	--	--	--	--	Methyl isobutyl ketone	Weight	--	3.3E-04	--	3.3E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.2E-05	--	1.2E-05
			(Total)	--	2.8E-05	--	2.8E-05	(Total)		--	7.1E-02	--	7.1E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.2E-05	--	1.2E-05	Benzene	Blood	--	2.9E-02	--	2.9E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	3.4E-03	--	3.4E-03
			(Total)	--	1.2E-05	--	1.2E-05	(Total)		--	3.3E-02	--	3.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.8E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	7.1E-02
Total Risk for Deep Soil-to-Indoor Air =	1.2E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	3.3E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-34	**EAPC No.:** 11

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.11.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-02
	Tetrachloroethene	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
	Toluene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	8.7E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.0E-05
												Total Hazard Index Across All Exposure Routes/Pathways	1.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.11.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	4.2E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-01
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.3E-02
	Toluene	3.2E-05	mg/m^3	3.2E-05	mg/m^3	M	2.0E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	2.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.11.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	7.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.0E-06
	Tetrachloroethene	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	3.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.1E-08
	Toluene	5.9E-06	mg/m^3	5.9E-06	mg/m^3	M	3.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.11.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	9.9E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	9.9E-05
	Tetrachloroethene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	3.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	6.3E-07
	Toluene	3.2E-05	mg/m^3	3.2E-05	mg/m^3	M	4.8E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	9.9E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.11.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	7.0E-06	--	7.0E-06	Benzene	Blood	--	1.1E-02	--	1.1E-02
			Tetrachloroethene	--	8.1E-08	--	8.1E-08	Tetrachloroethene	Liver/Kidney	--	1.1E-03	--	1.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.0E-05	--	1.0E-05
			(Total)	--	7.0E-06	--	7.0E-06	(Total)		--	1.2E-02	--	1.2E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	7.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.2E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.11.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-34
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	9.9E-05	--	9.9E-05	Benzene	Blood	--	2.5E-01	--	2.5E-01
			Tetrachloroethene	--	6.3E-07	--	6.3E-07	Tetrachloroethene	Liver/Kidney	--	1.3E-02	--	1.3E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.4E-04	--	2.4E-04
			(Total)	--	9.9E-05	--	9.9E-05	(Total)		--	2.6E-01	--	2.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	9.9E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.6E-01
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-33-900	**EAPC No.:** 15

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.15.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.4E-04	mg/m^3	7.4E-04	mg/m^3	M	1.1E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.4E-03
	Ethylbenzene	5.9E-07	mg/m^3	5.9E-07	mg/m^3	M	8.7E-08	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-07
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	3.3E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.3E-05
	Toluene	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	8.2E-08	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.5E-07
												Total Hazard Index Across All Exposure Routes/Pathways	6.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.6E-03	mg/m^3	5.6E-03	mg/m^3	M	8.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.8E-02
	Toluene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	2.3E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.7E-05
												Total Hazard Index Across All Exposure Routes/Pathways	4.8E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	1.0E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.1E-02
	Ethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	8.5E-07	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-06
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	3.4E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.3E-04
	Toluene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	8.0E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	9.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	6.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.15.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	2.3E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E+00
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.15.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.4E-04	mg/m^3	7.4E-04	mg/m^3	M	3.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.9E-06
	Ethylbenzene	5.9E-07	mg/m^3	5.9E-07	mg/m^3	M	3.1E-08	mg/kg-day	--	--	--
	Naphthalene	2.2E-07	mg/m^3	2.2E-07	mg/m^3	M	1.2E-08	mg/kg-day	--	--	--
	Toluene	5.6E-07	mg/m^3	5.6E-07	mg/m^3	M	2.9E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.9E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.6E-03	mg/m^3	5.6E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-05
	Toluene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	8.2E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-05
	Ethylbenzene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	2.0E-07	mg/kg-day	--	--	--
	Naphthalene	5.3E-07	mg/m^3	5.3E-07	mg/m^3	M	7.8E-08	mg/kg-day	--	--	--
	Toluene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.9E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.4E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.15.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.6E-02	mg/m^3	3.6E-02	mg/m^3	M	5.3E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.3E-04
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.15.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.9E-06	--	3.9E-06	Benzene	Blood	--	6.4E-03	--	6.4E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-07	--	1.5E-07
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.3E-05	--	1.3E-05
			Toluene	--	--	--	--	Toluene	CNS	--	9.5E-07	--	9.5E-07
			(Total)	--	3.9E-06	--	3.9E-06	(Total)		--	6.4E-03	--	6.4E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.0E-05	--	3.0E-05	Benzene	Blood	--	4.8E-02	--	4.8E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.7E-05	--	2.7E-05
			(Total)	--	3.0E-05	--	3.0E-05	(Total)		--	4.8E-02	--	4.8E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.9E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.4E-03
Total Risk for Deep Soil-to-Indoor Air =	3.0E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	4.8E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.15.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-33-900
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.4E-05	--	2.4E-05	Benzene	Blood	--	6.1E-02	--	6.1E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-06	--	1.5E-06
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.3E-04	--	1.3E-04
			Toluene	--	--	--	--	Toluene	CNS	--	9.3E-06	--	9.3E-06
			(Total)	--	2.4E-05	--	2.4E-05	(Total)		--	6.1E-02	--	6.1E-02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.3E-04	--	5.3E-04	Benzene	Blood	--	1.3E+00	--	1.3E+00
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-03	--	1.1E-03
			(Total)	--	5.3E-04	--	5.3E-04	(Total)		--	1.3E+00	--	1.3E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.4E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.1E-02
Total Risk for Deep Soil-to-Indoor Air =	5.3E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	1.3E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-15, -50, -56	**EAPC No.:** 16

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.16.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-01
	1,3,5-Trimethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.4E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.4E-02
	4-Ethyl Toluene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.8E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.9E-03
	Acetone	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	5.2E-02	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	5.7E-02
	Benzene	2.4E-03	mg/m^3	2.4E-03	mg/m^3	M	3.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.0E-02
	Chloroform	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	2.9E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E-01
	Ethylbenzene	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	7.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.3E-02
	Naphthalene	4.0E-06	mg/m^3	4.0E-06	mg/m^3	M	5.9E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-04
	Styrene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	5.7E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.2E-01
	Tetrachloroethene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.4E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.4E+00
	Toluene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.3E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.7E-03
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.5E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.6E-02
	Xylenes	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.5E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.5E-05	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.3E-04
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.7E-04	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	8.6E-03
	Benzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-03
	Ethylbenzene	4.1E-06	mg/m^3	4.1E-06	mg/m^3	M	6.0E-07	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.0E-06
	Tetrachloroethene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	4.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.5E-03
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.5E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	1.1E-02	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.4E+00
	1,3,5-Trimethylbenzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	8.4E-01
	4-Ethyl Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.2E-02
	Acetone	6.4E+00	mg/m^3	6.4E+00	mg/m^3	M	4.1E+00	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	4.5E+00
	Benzene	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	6.0E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.5E+00
	Chloroform	5.9E+00	mg/m^3	5.9E+00	mg/m^3	M	3.8E+00	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.4E+01
	Ethylbenzene	2.0E+00	mg/m^3	2.0E+00	mg/m^3	M	1.3E+00	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E+00
	Naphthalene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	2.8E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-02
	Styrene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	1.1E+00	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	4.3E+00
	Tetrachloroethene	6.8E+00	mg/m^3	6.8E+00	mg/m^3	M	4.4E+00	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.4E+02
	Toluene	6.3E-02	mg/m^3	6.3E-02	mg/m^3	M	4.0E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.7E-01
	Trichloroethene	4.2E+00	mg/m^3	4.2E+00	mg/m^3	M	2.7E+00	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E+01
	Xylenes	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.9E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	9.3E-02
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.16.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	6.6E-04	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.3E-03
	1,1-Dichloroethene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	1.8E-03	mg/kg-day	2.0E-02	mg/kg-day	7.0E-02	mg/m3	8.8E-02
	Benzene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	3.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-02
	Ethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.1E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.0E-05
	Tetrachloroethene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	4.7E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.7E-02
	Trichloroethene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	2.9E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.16.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-15, -50, -56

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.3E-03	mg/m^3	1.3E-03	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	8.6E-06	mg/kg-day	--	--	--
	4-Ethyl Toluene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	2.8E-04	mg/kg-day	--	--	--
	Acetone	3.5E-01	mg/m^3	3.5E-01	mg/m^3	M	1.8E-02	mg/kg-day	--	--	--
	Benzene	2.4E-03	mg/m^3	2.4E-03	mg/m^3	M	1.2E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-05
	Chloroform	2.0E-01	mg/m^3	2.0E-01	mg/m^3	M	1.0E-02	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.0E-04
	Ethylbenzene	5.2E-02	mg/m^3	5.2E-02	mg/m^3	M	2.7E-03	mg/kg-day	--	--	--
	Naphthalene	4.0E-06	mg/m^3	4.0E-06	mg/m^3	M	2.1E-07	mg/kg-day	--	--	--
	Styrene	3.9E-01	mg/m^3	3.9E-01	mg/m^3	M	2.0E-02	mg/kg-day	--	--	--
	Tetrachloroethene	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	8.6E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.8E-04
	Toluene	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	8.2E-05	mg/kg-day	--	--	--
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	5.3E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.7E-05
	Xylenes	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.1E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.3E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.3E-05	mg/kg-day	--	--	--
	1,1-Dichloroethene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.1E-05	mg/kg-day	--	--	--
	Benzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	6.5E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.5E-07
	Ethylbenzene	4.1E-06	mg/m^3	4.1E-06	mg/m^3	M	2.1E-07	mg/kg-day	--	--	--
	Tetrachloroethene	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.4E-07
	Trichloroethene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	1.0E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.1E-08
										Total Risk Across All Exposure Routes/Pathways	1.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.7E-02	mg/m^3	1.7E-02	mg/m^3	M	2.6E-03	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.3E-03	mg/kg-day	--	--	--
	Acetone	6.4E+00	mg/m^3	6.4E+00	mg/m^3	M	9.5E-01	mg/kg-day	--	--	--
	Benzene	9.3E-02	mg/m^3	9.3E-02	mg/m^3	M	1.4E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.4E-03
	Chloroform	5.9E+00	mg/m^3	5.9E+00	mg/m^3	M	8.8E-01	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.7E-02
	Ethylbenzene	2.0E+00	mg/m^3	2.0E+00	mg/m^3	M	3.0E-01	mg/kg-day	--	--	--
	Naphthalene	4.4E-05	mg/m^3	4.4E-05	mg/m^3	M	6.6E-06	mg/kg-day	--	--	--
	Styrene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	2.6E-01	mg/kg-day	--	--	--
	Tetrachloroethene	6.8E+00	mg/m^3	6.8E+00	mg/m^3	M	1.0E+00	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.1E-02
	Toluene	6.3E-02	mg/m^3	6.3E-02	mg/m^3	M	9.3E-03	mg/kg-day	--	--	--
	Trichloroethene	4.2E+00	mg/m^3	4.2E+00	mg/m^3	M	6.2E-01	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.4E-03
	Xylenes	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	4.3E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.16.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	1.0E-03	mg/m^3	1.0E-03	mg/m^3	M	1.5E-04	mg/kg-day	--	--	--
	1,1-Dichloroethene	2.7E-03	mg/m^3	2.7E-03	mg/m^3	M	4.1E-04	mg/kg-day	--	--	--
	Benzene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	7.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.4E-06
	Ethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	2.6E-06	mg/kg-day	--	--	--
	Tetrachloroethene	7.3E-04	mg/m^3	7.3E-04	mg/m^3	M	1.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-06
	Trichloroethene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	6.7E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.7E-07
										Total Risk Across All Exposure Routes/Pathways	1.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.16.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**#REF!**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.1E-01	--	1.1E-01
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.4E-02	--	1.4E-02
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	3.9E-03	--	3.9E-03
			Acetone	--	--	--	--	Acetone	Kidney	--	5.7E-02	--	5.7E-02
			Benzene	--	1.2E-05	--	1.2E-05	Benzene	Blood	--	2.0E-02	--	2.0E-02
			Chloroform	--	2.0E-04	--	2.0E-04	Chloroform	Kidney	--	3.4E-01	--	3.4E-01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.3E-02	--	1.3E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-04	--	2.3E-04
			Styrene	--	--	--	--	Styrene	CNS	--	2.2E-01	--	2.2E-01
			Tetrachloroethene	--	1.8E-04	--	1.8E-04	Tetrachloroethene	Liver/Kidney	--	2.4E+00	--	2.4E+00
			Toluene	--	--	--	--	Toluene	CNS	--	2.7E-03	--	2.7E-03
			Trichloroethene	--	3.7E-05	--	3.7E-05	Trichloroethene	CNS	--	8.6E-02	--	8.6E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.5E-03	--	1.5E-03
			(Total)	--	4.3E-04	--	4.3E-04	(Total)		--	3.3E+00	--	3.3E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.3E-04	--	2.3E-04
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	8.6E-03	--	8.6E-03
			Benzene	--	6.5E-07	--	6.5E-07	Benzene	Blood	--	1.1E-03	--	1.1E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.0E-06	--	1.0E-06
			Tetrachloroethene	--	3.4E-07	--	3.4E-07	Tetrachloroethene	Liver/Kidney	--	4.5E-03	--	4.5E-03
			Trichloroethene	--	7.1E-08	--	7.1E-08	Trichloroethene	CNS	--	1.7E-04	--	1.7E-04
			(Total)	--	1.1E-06	--	1.1E-06	(Total)		--	1.5E-02	--	1.5E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.3E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.3E+00
Total Risk for Deep Soil-to-Indoor Air =	1.1E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	1.5E-02
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.16.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-15, -50, -56
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.4E+00	--	6.4E+00
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	8.4E-01	--	8.4E-01
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	7.2E-02	--	7.2E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	4.5E+00	--	4.5E+00
			Benzene	--	1.4E-03	--	1.4E-03	Benzene	Blood	--	3.5E+00	--	3.5E+00
			Chloroform	--	1.7E-02	--	1.7E-02	Chloroform	Kidney	--	4.4E+01	--	4.4E+01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E+00	--	2.2E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	4.3E+00	--	4.3E+00
			Tetrachloroethene	--	2.1E-02	--	2.1E-02	Tetrachloroethene	Liver/Kidney	--	4.4E+02	--	4.4E+02
			Toluene	--	--	--	--	Toluene	CNS	--	4.7E-01	--	4.7E-01
			Trichloroethene	--	4.4E-03	--	4.4E-03	Trichloroethene	CNS	--	1.6E+01	--	1.6E+01
			Xylenes	--	--	--	--	Xylenes	CNS	--	9.3E-02	--	9.3E-02
			(Total)	--	4.4E-02	--	4.4E-02	(Total)		--	5.2E+02	--	5.2E+02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.3E-03	--	2.3E-03
			1,1-Dichloroethene	--	--	--	--	1,1-Dichloroethene	Liver	--	8.8E-02	--	8.8E-02
			Benzene	--	7.4E-06	--	7.4E-06	Benzene	Blood	--	1.9E-02	--	1.9E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.0E-05	--	2.0E-05
			Tetrachloroethene	--	2.3E-06	--	2.3E-06	Tetrachloroethene	Liver/Kidney	--	4.7E-02	--	4.7E-02
			Trichloroethene	--	4.7E-07	--	4.7E-07	Trichloroethene	CNS	--	1.7E-03	--	1.7E-03
			(Total)	--	1.0E-05	--	1.0E-05	(Total)		--	1.6E-01	--	1.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.4E-02	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.2E+02
Total Risk for Deep Soil-to-Indoor Air =	1.0E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	1.6E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-39	**EAPC No.:** 17

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.17.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.6E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.0E-04
	Benzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	2.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.6E-03
	Ethylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	8.1E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.4E-04
	Styrene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.0E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	7.8E-04
	Tetrachloroethene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	1.9E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.9E-05
	Toluene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	1.3E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-04
	Xylenes	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	1.5E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.6E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.17.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.6E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.2E-03
	Benzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	7.8E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.6E-02
	Ethylbenzene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	2.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.0E-03
	Styrene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	5.9E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	2.3E-02
	Tetrachloroethene	4.9E-06	mg/m^3	4.9E-06	mg/m^3	M	3.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-04
	Toluene	5.7E-04	mg/m^3	5.7E-04	mg/m^3	M	3.6E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.2E-03
	Xylenes	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	1.5E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	8.6E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.17.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	5.7E-05	mg/kg-day	--	--	--
	Benzene	1.9E-04	mg/m^3	1.9E-04	mg/m^3	M	1.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-06
	Ethylbenzene	5.5E-04	mg/m^3	5.5E-04	mg/m^3	M	2.9E-05	mg/kg-day	--	--	--
	Styrene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	7.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.3E-06	mg/m^3	1.3E-06	mg/m^3	M	6.9E-08	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-09
	Toluene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	4.5E-06	mg/kg-day	--	--	--
	Xylenes	1.0E-04	mg/m^3	1.0E-04	mg/m^3	M	5.4E-06	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.0E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-39
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	4-Ethyl Toluene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	3.8E-04	mg/kg-day	--	--	--
	Benzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-05
	Ethylbenzene	3.5E-03	mg/m^3	3.5E-03	mg/m^3	M	5.3E-04	mg/kg-day	--	--	--
	Styrene	9.2E-03	mg/m^3	9.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	--	--	--
	Tetrachloroethene	4.9E-06	mg/m^3	4.9E-06	mg/m^3	M	7.3E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Toluene	5.7E-04	mg/m^3	5.7E-04	mg/m^3	M	8.4E-05	mg/kg-day	--	--	--
	Xylenes	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	3.5E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.8E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.17.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-39
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.0E-04	--	8.0E-04
			Benzene	--	1.0E-06	--	1.0E-06	Benzene	Blood	--	1.6E-03	--	1.6E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.4E-04	--	1.4E-04
			Styrene	--	--	--	--	Styrene	CNS	--	7.8E-04	--	7.8E-04
			Tetrachloroethene	--	1.4E-09	--	1.4E-09	Tetrachloroethene	Liver/Kidney	--	1.9E-05	--	1.9E-05
			Toluene	--	--	--	--	Toluene	CNS	--	1.5E-04	--	1.5E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.6E-05	--	7.6E-05
			(Total)	--	1.0E-06	--	1.0E-06	(Total)		--	3.6E-03	--	3.6E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.0E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.6E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.17.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-39

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.2E-03	--	8.2E-03
			Benzene	--	1.8E-05	--	1.8E-05	Benzene	Blood	--	4.6E-02	--	4.6E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.0E-03	--	4.0E-03
			Styrene	--	--	--	--	Styrene	CNS	--	2.3E-02	--	2.3E-02
			Tetrachloroethene	--	1.5E-08	--	1.5E-08	Tetrachloroethene	Liver/Kidney	--	3.2E-04	--	3.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	4.2E-03	--	4.2E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.4E-04	--	7.4E-04
			(Total)	--	1.8E-05	--	1.8E-05	(Total)		--	8.6E-02	--	8.6E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.8E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	8.6E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-41	**EAPC No.:** 18

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.18.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.6E-06	mg/m^3	3.6E-06	mg/m^3	M	5.4E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.1E-05
	Ethylbenzene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.7E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.5E-06
	Styrene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	9.4E-06	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.6E-05
	Tetrachloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.1E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.1E-04
	Toluene	7.5E-06	mg/m^3	7.5E-06	mg/m^3	M	1.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.3E-05
	Xylenes	4.1E-07	mg/m^3	4.1E-07	mg/m^3	M	6.1E-08	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-07
												Total Hazard Index Across All Exposure Routes/Pathways	3.0E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.18.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	1.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.1E-04
	Ethylbenzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	1.1E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.9E-04
	Styrene	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	2.8E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-03
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	2.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.3E-03
	Toluene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	3.3E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.9E-04
	Xylenes	9.4E-07	mg/m^3	9.4E-07	mg/m^3	M	6.0E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	3.0E-06
												Total Hazard Index Across All Exposure Routes/Pathways	4.9E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.18.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.6E-06	mg/m^3	3.6E-06	mg/m^3	M	1.9E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-08
	Ethylbenzene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Styrene	6.4E-05	mg/m^3	6.4E-05	mg/m^3	M	3.3E-06	mg/kg-day	--	--	--
	Tetrachloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	7.6E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
	Toluene	7.5E-06	mg/m^3	7.5E-06	mg/m^3	M	3.9E-07	mg/kg-day	--	--	--
	Xylenes	4.1E-07	mg/m^3	4.1E-07	mg/m^3	M	2.2E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	3.5E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.18.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-41
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.6E-07
	Ethylbenzene	1.7E-04	mg/m^3	1.7E-04	mg/m^3	M	2.6E-05	mg/kg-day	--	--	--
	Styrene	4.4E-04	mg/m^3	4.4E-04	mg/m^3	M	6.6E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.6E-05	mg/m^3	3.6E-05	mg/m^3	M	5.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-07
	Toluene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	7.7E-06	mg/kg-day	--	--	--
	Xylenes	9.4E-07	mg/m^3	9.4E-07	mg/m^3	M	1.4E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.7E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.18.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-41
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.9E-08	--	1.9E-08	Benzene	Blood	--	3.1E-05	--	3.1E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.5E-06	--	6.5E-06
			Styrene	--	--	--	--	Styrene	CNS	--	3.6E-05	--	3.6E-05
			Tetrachloroethene	--	1.6E-08	--	1.6E-08	Tetrachloroethene	Liver/Kidney	--	2.1E-04	--	2.1E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.3E-05	--	1.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.0E-07	--	3.0E-07
			(Total)	--	3.5E-08	--	3.5E-08	(Total)		--	3.0E-04	--	3.0E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	3.5E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.0E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.18.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-41

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.6E-07	--	3.6E-07	Benzene	Blood	--	9.1E-04	--	9.1E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.9E-04	--	1.9E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-03	--	1.1E-03
			Tetrachloroethene	--	1.1E-07	--	1.1E-07	Tetrachloroethene	Liver/Kidney	--	2.3E-03	--	2.3E-03
			Toluene	--	--	--	--	Toluene	CNS	--	3.9E-04	--	3.9E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	3.0E-06	--	3.0E-06
			(Total)	--	4.7E-07	--	4.7E-07	(Total)		--	4.9E-03	--	4.9E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.7E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	4.9E-03
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-47	**EAPC No.:** 21

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.21.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	4.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-05
	Ethylbenzene	6.5E-05	mg/m^3	6.5E-05	mg/m^3	M	9.5E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-05
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	6.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.2E-04
	Toluene	1.9E-07	mg/m^3	1.9E-07	mg/m^3	M	2.8E-08	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.2E-07
												Total Hazard Index Across All Exposure Routes/Pathways	6.7E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.21.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	6.2E-04
	Ethylbenzene	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	2.2E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.8E-04
	Tetrachloroethene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.0E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.0E-02
	Toluene	6.2E-07	mg/m^3	6.2E-07	mg/m^3	M	3.9E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.21.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.2E-06	mg/m^3	3.2E-06	mg/m^3	M	1.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Ethylbenzene	6.5E-05	mg/m^3	6.5E-05	mg/m^3	M	3.4E-06	mg/kg-day	--	--	--
	Tetrachloroethene	4.2E-05	mg/m^3	4.2E-05	mg/m^3	M	2.2E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.7E-08
	Toluene	1.9E-07	mg/m^3	1.9E-07	mg/m^3	M	9.8E-09	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.21.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-47
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	2.5E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.5E-07
	Ethylbenzene	3.4E-04	mg/m^3	3.4E-04	mg/m^3	M	5.1E-05	mg/kg-day	--	--	--
	Tetrachloroethene	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.4E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.0E-07
	Toluene	6.2E-07	mg/m^3	6.2E-07	mg/m^3	M	9.2E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.21.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-47
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.7E-08	--	1.7E-08	Benzene	Blood	--	2.8E-05	--	2.8E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-05	--	1.7E-05
			Tetrachloroethene	--	4.7E-08	--	4.7E-08	Tetrachloroethene	Liver/Kidney	--	6.2E-04	--	6.2E-04
			Toluene	--	--	--	--	Toluene	CNS	--	3.2E-07	--	3.2E-07
			(Total)	--	6.4E-08	--	6.4E-08	(Total)		--	6.7E-04	--	6.7E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	6.4E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.7E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.21.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-47

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.5E-07	--	2.5E-07	Benzene	Blood	--	6.2E-04	--	6.2E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.8E-04	--	3.8E-04
			Tetrachloroethene	--	5.0E-07	--	5.0E-07	Tetrachloroethene	Liver/Kidney	--	1.0E-02	--	1.0E-02
			Toluene	--	--	--	--	Toluene	CNS	--	4.6E-06	--	4.6E-06
			(Total)	--	7.4E-07	--	7.4E-07	(Total)		--	1.1E-02	--	1.1E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	7.4E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-57	**EAPC No.:** 23

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.23.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	5.7E-02	mg/m^3	5.7E-02	mg/m^3	M	8.4E-03	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	2.9E-02
	1,2,4-Trimethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.0E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.8E-02
	1,3,5-Trimethylbenzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	3.6E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-02
	Acetone	6.8E-01	mg/m^3	6.8E-01	mg/m^3	M	1.0E-01	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.1E-01
	Benzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	4.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-02
	sec-Butylbenzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	5.4E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-04
	Chloroform	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	5.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	6.8E-02
	Ethylbenzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	6.3E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.1E-02
	Styrene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	1.7E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.6E-04
	Tetrachloroethene	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	6.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	6.0E-01
	Toluene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	4.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.7E-04
	Trichloroethene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	3.6E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.1E-02
	Xylenes	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.2E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	1.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.0E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.9E-05	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	3.4E-04
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	2.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.3E-02
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	3.9E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	4.5E-04
	Ethylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	2.3E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.1E-06
	Styrene	8.4E-05	mg/m^3	8.4E-05	mg/m^3	M	1.2E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	4.8E-05
	Toluene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.0E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.4E-05
	Trichloroethene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	3.4E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,1-Trichloroethane	2.4E+00	mg/m^3	2.4E+00	mg/m^3	M	1.6E+00	mg/kg-day	2.9E-01	mg/kg-day	1.0E+00	mg/m3	5.4E+00
	1,2,4-Trimethylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	3.9E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.3E-01
	1,3,5-Trimethylbenzene	5.8E-04	mg/m^3	5.8E-04	mg/m^3	M	3.7E-04	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.2E-01
	Acetone	1.6E+00	mg/m^3	1.6E+00	mg/m^3	M	1.0E+00	mg/kg-day	9.0E-01	mg/kg-day	3.2E+00	mg/m3	1.1E+00
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	8.9E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.2E+00
	sec-Butylbenzene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	5.6E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.4E-03
	Chloroform	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	9.5E-01	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E+01
	Ethylbenzene	2.0E+00	mg/m^3	2.0E+00	mg/m^3	M	1.3E+00	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	2.2E+00
	Styrene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	3.7E-02	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.4E-01
	Tetrachloroethene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	1.1E+00	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+02
	Toluene	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	1.0E-02	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-01
	Trichloroethene	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	6.7E-01	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.9E+00
	Xylenes	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	1.4E-02	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.0E-02
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E+02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.23.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2-Dichloroethane	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	1.0E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.9E-03
	Benzene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	5.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.2E-01
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.3E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.5E-02
	Ethylbenzene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	9.4E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.7E-04
	Styrene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	2.9E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-03
	Toluene	9.6E-05	mg/m^3	9.6E-05	mg/m^3	M	6.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.1E-04
	Trichloroethene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3.6E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.23.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	5.7E-02	mg/m^3	5.7E-02	mg/m^3	M	3.0E-03	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.1E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Acetone	6.8E-01	mg/m^3	6.8E-01	mg/m^3	M	3.6E-02	mg/kg-day	--	--	--
	Benzene	2.9E-03	mg/m^3	2.9E-03	mg/m^3	M	1.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-05
	sec-Butylbenzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Chloroform	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.1E-03	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	3.9E-05
	Ethylbenzene	4.3E-02	mg/m^3	4.3E-02	mg/m^3	M	2.2E-03	mg/kg-day	--	--	--
	Styrene	1.1E-03	mg/m^3	1.1E-03	mg/m^3	M	6.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	4.1E-02	mg/m^3	4.1E-02	mg/m^3	M	2.1E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.5E-05
	Toluene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	1.7E-05	mg/kg-day	--	--	--
	Trichloroethene	2.5E-02	mg/m^3	2.5E-02	mg/m^3	M	1.3E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	9.0E-06
	Xylenes	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	8.0E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.4E-05	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	9.9E-07
	Benzene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	7.7E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.7E-06
	Chloroform	2.6E-04	mg/m^3	2.6E-04	mg/m^3	M	1.4E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.6E-07
	Ethylbenzene	1.6E-05	mg/m^3	1.6E-05	mg/m^3	M	8.4E-07	mg/kg-day	--	--	--
	Styrene	8.4E-05	mg/m^3	8.4E-05	mg/m^3	M	4.4E-06	mg/kg-day	--	--	--
	Toluene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	7.3E-07	mg/kg-day	--	--	--
	Trichloroethene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	1.2E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.6E-08
										Total Risk Across All Exposure Routes/Pathways	9.1E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,1-Trichloroethane	2.4E+00	mg/m^3	2.4E+00	mg/m^3	M	3.6E-01	mg/kg-day	--	--	--
	1,2,4-Trimethylbenzene	6.1E-04	mg/m^3	6.1E-04	mg/m^3	M	9.0E-05	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	5.8E-04	mg/m^3	5.8E-04	mg/m^3	M	8.6E-05	mg/kg-day	--	--	--
	Acetone	1.6E+00	mg/m^3	1.6E+00	mg/m^3	M	2.4E-01	mg/kg-day	--	--	--
	Benzene	1.4E-01	mg/m^3	1.4E-01	mg/m^3	M	2.1E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-03
	sec-Butylbenzene	8.7E-05	mg/m^3	8.7E-05	mg/m^3	M	1.3E-05	mg/kg-day	--	--	--
	Chloroform	1.5E+00	mg/m^3	1.5E+00	mg/m^3	M	2.2E-01	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	4.2E-03
	Ethylbenzene	2.0E+00	mg/m^3	2.0E+00	mg/m^3	M	3.0E-01	mg/kg-day	--	--	--
	Styrene	5.8E-02	mg/m^3	5.8E-02	mg/m^3	M	8.6E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E+00	mg/m^3	1.7E+00	mg/m^3	M	2.5E-01	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-03
	Toluene	1.6E-02	mg/m^3	1.6E-02	mg/m^3	M	2.3E-03	mg/kg-day	--	--	--
	Trichloroethene	1.0E+00	mg/m^3	1.0E+00	mg/m^3	M	1.6E-01	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-03
	Xylenes	2.2E-02	mg/m^3	2.2E-02	mg/m^3	M	3.2E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.23.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-57
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2-Dichloroethane	1.6E-03	mg/m^3	1.6E-03	mg/m^3	M	2.4E-04	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	1.7E-05
	Benzene	8.7E-03	mg/m^3	8.7E-03	mg/m^3	M	1.3E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-04
	Chloroform	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	5.8E-06
	Ethylbenzene	1.5E-04	mg/m^3	1.5E-04	mg/m^3	M	2.2E-05	mg/kg-day	--	--	--
	Styrene	4.5E-04	mg/m^3	4.5E-04	mg/m^3	M	6.7E-05	mg/kg-day	--	--	--
	Toluene	9.6E-05	mg/m^3	9.6E-05	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Trichloroethene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.4E-04	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-06
										Total Risk Across All Exposure Routes/Pathways	1.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.23.1. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

COMMERCIAL WORKER EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	2.9E-02	--	2.9E-02
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.8E-02	--	1.8E-02
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.1E-02	--	2.1E-02
			Acetone	--	--	--	--	Acetone	Kidney	--	1.1E-01	--	1.1E-01
			Benzene	--	1.5E-05	--	1.5E-05	Benzene	Blood	--	2.5E-02	--	2.5E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-04	--	1.4E-04
			Chloroform	--	3.9E-05	--	3.9E-05	Chloroform	Kidney	--	6.8E-02	--	6.8E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	6.6E-04	--	6.6E-04
			Tetrachloroethene	--	4.5E-05	--	4.5E-05	Tetrachloroethene	Liver/Kidney	--	6.0E-01	--	6.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	5.7E-04	--	5.7E-04
			Trichloroethene	--	9.0E-06	--	9.0E-06	Trichloroethene	CNS	--	2.1E-02	--	2.1E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	1.1E-03	--	1.1E-03
			(Total)	--	1.1E-04	--	1.1E-04	(Total)		--	9.0E-01	--	9.0E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2-Dichloroethane	--	9.9E-07	--	9.9E-07	1,2-Dichloroethane	Liver	--	3.4E-04	--	3.4E-04
			Benzene	--	7.7E-06	--	7.7E-06	Benzene	Blood	--	1.3E-02	--	1.3E-02
			Chloroform	--	2.6E-07	--	2.6E-07	Chloroform	Kidney	--	4.5E-04	--	4.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.1E-06	--	4.1E-06
			Styrene	--	--	--	--	Styrene	CNS	--	4.8E-05	--	4.8E-05
			Toluene	--	--	--	--	Toluene	CNS	--	2.4E-05	--	2.4E-05
			Trichloroethene	--	8.6E-08	--	8.6E-08	Trichloroethene	CNS	--	2.0E-04	--	2.0E-04
			(Total)	--	9.1E-06	--	9.1E-06	(Total)		--	1.4E-02	--	1.4E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.1E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.0E-01
Total Risk for Deep Soil-to-Indoor Air =	9.1E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	1.4E-02
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.23.2. Tiers 1 and 2

RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS

RESIDENTIAL EXPOSURE SCENARIO

PARCEL LOCATION: 7351-34-57

Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,1-Trichloroethane	--	--	--	--	1,1,1-Trichloroethane	Nervous System	--	5.4E+00	--	5.4E+00
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.3E-01	--	2.3E-01
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	2.2E-01	--	2.2E-01
			Acetone	--	--	--	--	Acetone	Kidney	--	1.1E+00	--	1.1E+00
			Benzene	--	2.1E-03	--	2.1E-03	Benzene	Blood	--	5.2E+00	--	5.2E+00
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.4E-03	--	1.4E-03
			Chloroform	--	4.2E-03	--	4.2E-03	Chloroform	Kidney	--	1.1E+01	--	1.1E+01
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	2.2E+00	--	2.2E+00
			Styrene	--	--	--	--	Styrene	CNS	--	1.4E-01	--	1.4E-01
			Tetrachloroethene	--	5.3E-03	--	5.3E-03	Tetrachloroethene	Liver/Kidney	--	1.1E+02	--	1.1E+02
			Toluene	--	--	--	--	Toluene	CNS	--	1.2E-01	--	1.2E-01
			Trichloroethene	--	1.1E-03	--	1.1E-03	Trichloroethene	CNS	--	3.9E+00	--	3.9E+00
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.0E-02	--	7.0E-02
			(Total)	--	1.3E-02	--	1.3E-02	(Total)		--	1.4E+02	--	1.4E+02
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2-Dichloroethane	--	1.7E-05	--	1.7E-05	1,2-Dichloroethane	Liver	--	8.9E-03	--	8.9E-03
			Benzene	--	1.3E-04	--	1.3E-04	Benzene	Blood	--	3.2E-01	--	3.2E-01
			Chloroform	--	5.8E-06	--	5.8E-06	Chloroform	Kidney	--	1.5E-02	--	1.5E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.7E-04	--	1.7E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-03	--	1.1E-03
			Toluene	--	--	--	--	Toluene	CNS	--	7.1E-04	--	7.1E-04
			Trichloroethene	--	2.4E-06	--	2.4E-06	Trichloroethene	CNS	--	8.4E-03	--	8.4E-03
			(Total)	--	1.5E-04	--	1.5E-04	(Total)		--	3.6E-01	--	3.6E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.3E-02	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.4E+02
Total Risk for Deep Soil-to-Indoor Air =	1.5E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	3.6E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-58	**EAPC No.:** 24

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.24.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	3.0E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.8E-04
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.8E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-04
	Benzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	3.7E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-03
	Ethylbenzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	2.1E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.7E-04
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	4.9E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.9E-01
	Trichloroethene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	3.0E-03	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.7E-02
	Xylenes	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	4.6E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-04
												Total Hazard Index Across All Exposure Routes/Pathways	5.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	6.6E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.9E-01
	Methylene Chloride	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	9.8E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.5E-02
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	2.7E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.2E-03
												Total Hazard Index Across All Exposure Routes/Pathways	4.8E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	1,3,5-Trimethylbenzene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	1.8E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.1E-03
	Benzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	1.5E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.7E-02
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	8.7E-03	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-02
	Tetrachloroethene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	1.1E-01	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E+01
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	6.7E-02	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.9E-01
	Xylenes	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	7.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.24.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	6.3E-02	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.7E+00
	Methylene Chloride	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	1.0E-01	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	8.7E-01
	Toluene	4.6E-03	mg/m^3	4.6E-03	mg/m^3	M	2.9E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4.6E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.24.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	6.5E-08	mg/kg-day	--	--	--
	Benzene	2.5E-04	mg/m^3	2.5E-04	mg/m^3	M	1.3E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.3E-06
	Ethylbenzene	1.4E-03	mg/m^3	1.4E-03	mg/m^3	M	7.6E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.3E-02	mg/m^3	3.3E-02	mg/m^3	M	1.7E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.7E-05
	Trichloroethene	2.0E-02	mg/m^3	2.0E-02	mg/m^3	M	1.1E-03	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	7.5E-06
	Xylenes	3.1E-04	mg/m^3	3.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-58

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	4.5E-02	mg/m^3	4.5E-02	mg/m^3	M	2.4E-03	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-04
	Methylene Chloride	6.7E-02	mg/m^3	6.7E-02	mg/m^3	M	3.5E-03	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	1.2E-05
	Toluene	1.9E-03	mg/m^3	1.9E-03	mg/m^3	M	9.7E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	4.3E-07	mg/kg-day	--	--	--
	Benzene	2.3E-03	mg/m^3	2.3E-03	mg/m^3	M	3.5E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.5E-05
	Ethylbenzene	1.4E-02	mg/m^3	1.4E-02	mg/m^3	M	2.0E-03	mg/kg-day	--	--	--
	Tetrachloroethene	1.7E-01	mg/m^3	1.7E-01	mg/m^3	M	2.5E-02	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.3E-04
	Trichloroethene	1.0E-01	mg/m^3	1.0E-01	mg/m^3	M	1.6E-02	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-04
	Xylenes	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.2E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	6.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.24.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	9.9E-02	mg/m^3	9.9E-02	mg/m^3	M	1.5E-02	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-03
	Methylene Chloride	1.6E-01	mg/m^3	1.6E-01	mg/m^3	M	2.3E-02	mg/kg-day	3.5E-03	$mg/kg\text{-}day^{-1}$	8.1E-05
	Toluene	4.6E-03	mg/m^3	4.6E-03	mg/m^3	M	6.8E-04	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.24.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	1.8E-04	--	1.8E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.1E-04	--	1.1E-04
			Benzene	--	1.3E-06	--	1.3E-06	Benzene	Blood	--	2.2E-03	--	2.2E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.7E-04	--	3.7E-04
			Tetrachloroethene	--	3.7E-05	--	3.7E-05	Tetrachloroethene	Liver/Kidney	--	4.9E-01	--	4.9E-01
			Trichloroethene	--	7.5E-06	--	7.5E-06	Trichloroethene	CNS	--	1.7E-02	--	1.7E-02
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.3E-04	--	2.3E-04
			(Total)	--	4.5E-05	--	4.5E-05	(Total)		--	5.1E-01	--	5.1E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.4E-04	--	2.4E-04	Benzene	Blood	--	3.9E-01	--	3.9E-01
			Methylene Chloride	--	1.2E-05	--	1.2E-05	Methylene Chloride	Liver	--	8.5E-02	--	8.5E-02
			Toluene	--	--	--	--	Toluene	CNS	--	3.2E-03	--	3.2E-03
			(Total)	--	2.5E-04	--	2.5E-04	(Total)		--	4.8E-01	--	4.8E-01

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.5E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.1E-01
Total Risk for Deep Soil-to-Indoor Air =	2.5E-04	Total Hazard Index for Deep Soil-to-Indoor Air =	4.8E-01
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.24.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-58
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.1E-03	--	1.1E-03
			Benzene	--	3.5E-05	--	3.5E-05	Benzene	Blood	--	8.7E-02	--	8.7E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-02	--	1.5E-02
			Tetrachloroethene	--	5.3E-04	--	5.3E-04	Tetrachloroethene	Liver/Kidney	--	1.1E+01	--	1.1E+01
			Trichloroethene	--	1.1E-04	--	1.1E-04	Trichloroethene	CNS	--	3.9E-01	--	3.9E-01
			Xylenes	--	--	--	--	Xylenes	CNS	--	7.0E-03	--	7.0E-03
			(Total)	--	6.8E-04	--	6.8E-04	(Total)		--	1.1E+01	--	1.1E+01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.5E-03	--	1.5E-03	Benzene	Blood	--	3.7E+00	--	3.7E+00
			Methylene Chloride	--	8.1E-05	--	8.1E-05	Methylene Chloride	Liver	--	8.7E-01	--	8.7E-01
			Toluene	--	--	--	--	Toluene	CNS	--	3.4E-02	--	3.4E-02
			(Total)	--	1.5E-03	--	1.5E-03	(Total)		--	4.6E+00	--	4.6E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	6.8E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.1E+01
Total Risk for Deep Soil-to-Indoor Air =	1.5E-03	Total Hazard Index for Deep Soil-to-Indoor Air =	4.6E+00
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-69	**EAPC No.:** 28

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.28.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	7.6E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.4E-05
	n-Butylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	7.5E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-02
	sec-Butylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	3.9E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	9.7E-04
	Cyclohexane	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	5.6E-04	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	3.3E-04
	Ethylbenzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	3.5E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	6.2E-06
	Isopropylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	4.2E-03	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	3.8E-02
	Naphthalene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	4.3E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.7E-04
	Styrene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	2.9E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.1E-04
	Tetrachloroethene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Toluene	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	1.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.2E-05
	Xylenes	7.5E-06	mg/m^3	7.5E-06	mg/m^3	M	1.1E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.5E-06
												Total Hazard Index Across All Exposure Routes/Pathways	6.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.28.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	7.9E-05	mg/m^3	7.9E-05	mg/m^3	M	5.1E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E-03
	n-Butylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	2.6E-02	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	6.4E-01
	sec-Butylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	1.3E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	3.3E-02
	Cyclohexane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	7.5E-02	mg/kg-day	1.7E+00	mg/kg-day	6.0E+00	mg/m3	4.4E-02
	Ethylbenzene	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	2.6E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.5E-04
	Isopropylbenzene	4.7E-01	mg/m^3	4.7E-01	mg/m^3	M	3.0E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	2.7E+00
	Naphthalene	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	2.9E-05	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.1E-02
	Styrene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	4.1E-03	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	1.6E-02
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	5.0E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.0E-01
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.1E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.1E-03
	Xylenes	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	1.0E-04	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	5.0E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.9E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.28.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-69

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	2.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.7E-08
	n-Butylbenzene	5.1E-03	mg/m^3	5.1E-03	mg/m^3	M	2.7E-04	mg/kg-day	--	--	--
	sec-Butylbenzene	2.7E-04	mg/m^3	2.7E-04	mg/m^3	M	1.4E-05	mg/kg-day	--	--	--
	Cyclohexane	3.8E-03	mg/m^3	3.8E-03	mg/m^3	M	2.0E-04	mg/kg-day	--	--	--
	Ethylbenzene	2.4E-05	mg/m^3	2.4E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Isopropylbenzene	2.9E-02	mg/m^3	2.9E-02	mg/m^3	M	1.5E-03	mg/kg-day	--	--	--
	Naphthalene	2.9E-06	mg/m^3	2.9E-06	mg/m^3	M	1.5E-07	mg/kg-day	--	--	--
	Styrene	2.0E-04	mg/m^3	2.0E-04	mg/m^3	M	1.0E-05	mg/kg-day	--	--	--
	Tetrachloroethene	3.8E-04	mg/m^3	3.8E-04	mg/m^3	M	2.0E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.1E-07
	Toluene	7.3E-06	mg/m^3	7.3E-06	mg/m^3	M	3.8E-07	mg/kg-day	--	--	--
	Xylenes	7.5E-06	mg/m^3	7.5E-06	mg/m^3	M	3.9E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	4.4E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.28.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	7.9E-05	mg/m^3	7.9E-05	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
	n-Butylbenzene	4.0E-02	mg/m^3	4.0E-02	mg/m^3	M	6.0E-03	mg/kg-day	--	--	--
	sec-Butylbenzene	2.0E-03	mg/m^3	2.0E-03	mg/m^3	M	3.0E-04	mg/kg-day	--	--	--
	Cyclohexane	1.2E-01	mg/m^3	1.2E-01	mg/m^3	M	1.7E-02	mg/kg-day	--	--	--
	Ethylbenzene	4.1E-04	mg/m^3	4.1E-04	mg/m^3	M	6.0E-05	mg/kg-day	--	--	--
	Isopropylbenzene	4.7E-01	mg/m^3	4.7E-01	mg/m^3	M	7.0E-02	mg/kg-day	--	--	--
	Naphthalene	4.5E-05	mg/m^3	4.5E-05	mg/m^3	M	6.8E-06	mg/kg-day	--	--	--
	Styrene	6.5E-03	mg/m^3	6.5E-03	mg/m^3	M	9.6E-04	mg/kg-day	--	--	--
	Tetrachloroethene	7.8E-03	mg/m^3	7.8E-03	mg/m^3	M	1.2E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.4E-05
	Toluene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
	Xylenes	1.6E-04	mg/m^3	1.6E-04	mg/m^3	M	2.3E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.5E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.28.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.7E-08	--	2.7E-08	Benzene	Blood	--	4.4E-05	--	4.4E-05
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	1.9E-02	--	1.9E-02
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	9.7E-04	--	9.7E-04
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	3.3E-04	--	3.3E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	6.2E-06	--	6.2E-06
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	3.8E-02	--	3.8E-02
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.7E-04	--	1.7E-04
			Styrene	--	--	--	--	Styrene	CNS	--	1.1E-04	--	1.1E-04
			Tetrachloroethene	--	4.1E-07	--	4.1E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.2E-05	--	1.2E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.5E-06	--	5.5E-06
			(Total)	--	4.4E-07	--	4.4E-07	(Total)		--	6.4E-02	--	6.4E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	4.4E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.4E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk for Workplace Indoor Air =	--	Total Hazard Index for Workplace Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.28.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-69
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.2E-06	--	1.2E-06	Benzene	Blood	--	3.0E-03	--	3.0E-03
			n-Butylbenzene	--	--	--	--	n-Butylbenzene	Liver/Kidney	--	6.4E-01	--	6.4E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	3.3E-02	--	3.3E-02
			Cyclohexane	--	--	--	--	Cyclohexane	Weight	--	4.4E-02	--	4.4E-02
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.5E-04	--	4.5E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	2.7E+00	--	2.7E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.1E-02	--	1.1E-02
			Styrene	--	--	--	--	Styrene	CNS	--	1.6E-02	--	1.6E-02
			Tetrachloroethene	--	2.4E-05	--	2.4E-05	Tetrachloroethene	Liver/Kidney	--	5.0E-01	--	5.0E-01
			Toluene	--	--	--	--	Toluene	CNS	--	1.1E-03	--	1.1E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	5.0E-04	--	5.0E-04
			(Total)	--	2.5E-05	--	2.5E-05	(Total)		--	3.9E+00	--	3.9E+00

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.5E-05	Total Hazard Index for Shallow Soil-to-Indoor Air =	3.9E+00
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-70	**EAPC No.:** 29

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.29.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	2.0E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-04
												Total Hazard Index Across All Exposure Routes/Pathways	1.1E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.29.2. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	2.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.29.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	7.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.0E-08
										Total Risk Across All Exposure Routes/Pathways	7.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.29.2. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-70

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.7E-05	mg/m^3	3.7E-05	mg/m^3	M	5.5E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.5E-07
										Total Risk Across All Exposure Routes/Pathways	5.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.29.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	Benzene	--	7.0E-08	--	7.0E-08	Benzene	Blood	--	1.1E-04	--	1.1E-04
		Using the J&E Model	(Total)	--	7.0E-08	--	7.0E-08	(Total)		--	1.1E-04	--	1.1E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	7.0E-08	Total Hazard Index for Deep Soil-to-Indoor Air =	1.1E-04
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.29.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-70
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	Benzene	--	5.5E-07	--	5.5E-07	Benzene	Blood	--	1.4E-03	--	1.4E-03
		Using the J&E Model	(Total)	--	5.5E-07	--	5.5E-07	(Total)		--	1.4E-03	--	1.4E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	5.5E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	1.4E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-73	**EAPC No.:** 31

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.31.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	2.4E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.4E-04
	Ethylbenzene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	2.4E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	4.1E-06
	Styrene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.0E-05	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	3.5E-04
	Toluene	2.4E-06	mg/m^3	2.4E-06	mg/m^3	M	1.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-05
	Xylenes	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	8.0E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	4.0E-06
												Total Hazard Index Across All Exposure Routes/Pathways	5.2E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.31.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.8E-06	mg/m^3	3.8E-06	mg/m^3	M	5.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.7E-08
	Ethylbenzene	3.7E-06	mg/m^3	3.7E-06	mg/m^3	M	5.5E-07	mg/kg-day	--	--	--
	Styrene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.1E-05	mg/kg-day	--	--	--
	Toluene	2.4E-06	mg/m^3	2.4E-06	mg/m^3	M	3.5E-07	mg/kg-day	--	--	--
	Xylenes	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.9E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.31.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-73
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.7E-08	--	5.7E-08	Benzene	Blood	--	1.4E-04	--	1.4E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	4.1E-06	--	4.1E-06
			Styrene	--	--	--	--	Styrene	CNS	--	3.5E-04	--	3.5E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E-05	--	1.8E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	4.0E-06	--	4.0E-06
			(Total)	--	5.7E-08	--	5.7E-08	(Total)		--	5.2E-04	--	5.2E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	5.2E-04
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: 7351-34-901	**EAPC No.:** 34

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.34.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.9E-06	mg/m^3	3.9E-06	mg/m^3	M	5.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.3E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.34.2. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	6.6E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.8E-04
												Total Hazard Index Across All Exposure Routes/Pathways	3.8E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.34.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.9E-06	mg/m^3	3.9E-06	mg/m^3	M	2.0E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.0E-08
										Total Risk Across All Exposure Routes/Pathways	2.0E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.34.2. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: 7351-34-901

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.0E-05	mg/m^3	1.0E-05	mg/m^3	M	1.5E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.5E-07
										Total Risk Across All Exposure Routes/Pathways	1.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.34.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	2.0E-08	--	2.0E-08	Benzene	Blood	--	3.3E-05	--	3.3E-05
			(Total)	--	2.0E-08	--	2.0E-08	(Total)		--	3.3E-05	--	3.3E-05

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	2.0E-08	Total Hazard Index for Deep Soil-to-Indoor Air =	3.3E-05
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.34.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: 7351-34-901
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Deep Soil	Indoor Air	Predicted Deep Soil to	**VOCs**					**VOCs**					
(>15' bgs)		Indoor Air Concentrations	Benzene	--	1.5E-07	--	1.5E-07	Benzene	Blood	--	3.8E-04	--	3.8E-04
		Using the J&E Model	(Total)	--	1.5E-07	--	1.5E-07	(Total)		--	3.8E-04	--	3.8E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	--	Total Hazard Index for Shallow Soil-to-Indoor Air =	--
Total Risk for Deep Soil-to-Indoor Air =	1.5E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	3.8E-04
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Magellan Dr	**EAPC No.:** 35

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.35.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	5.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.1E-03
	sec-Butylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.8E-06	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	9.4E-05
	Ethylbenzene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	4.9E-04	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.6E-04
	Isopropylbenzene	9.0E-02	mg/m^3	9.0E-02	mg/m^3	M	1.3E-02	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	1.2E-01
	Naphthalene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	3.0E-08	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	1.2E-05
	n-Propylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	4.5E-03
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	7.8E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	7.8E-02
	Toluene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	1.8E-04	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.1E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2.1E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.1. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	1.6E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.4E-04
												Total Hazard Index Across All Exposure Routes/Pathways	9.4E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	1.9E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-01
	sec-Butylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	7.5E-05	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.9E-03
	Ethylbenzene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	1.8E-02	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.1E-02
	Isopropylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	3.1E-01	mg/kg-day	1.1E-01	mg/kg-day	3.9E-01	mg/m3	2.8E+00
	Naphthalene	9.2E-07	mg/m^3	9.2E-07	mg/m^3	M	5.9E-07	mg/kg-day	2.6E-03	mg/kg-day	9.0E-03	mg/m3	2.3E-04
	n-Propylbenzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	4.2E-03	mg/kg-day	4.0E-02	mg/kg-day	1.4E-01	mg/m3	1.1E-01
	Tetrachloroethene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	3.0E-02	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.0E+00
	Toluene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	6.8E-03	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	7.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	6.1E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.35.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	Benzene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	1.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	9.0E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.35.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	1.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-06
	sec-Butylbenzene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.3E-06	mg/kg-day	--	--	--
	Ethylbenzene	3.3E-03	mg/m^3	3.3E-03	mg/m^3	M	1.8E-04	mg/kg-day	--	--	--
	Isopropylbenzene	9.0E-02	mg/m^3	9.0E-02	mg/m^3	M	4.7E-03	mg/kg-day	--	--	--
	Naphthalene	2.1E-07	mg/m^3	2.1E-07	mg/m^3	M	1.1E-08	mg/kg-day	--	--	--
	n-Propylbenzene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	5.3E-03	mg/m^3	5.3E-03	mg/m^3	M	2.8E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.8E-06
	Toluene	1.2E-03	mg/m^3	1.2E-03	mg/m^3	M	6.5E-05	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	7.7E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.1. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	1.1E-04	mg/m^3	1.1E-04	mg/m^3	M	5.8E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.8E-07
										Total Risk Across All Exposure Routes/Pathways	5.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	3.0E-03	mg/m^3	3.0E-03	mg/m^3	M	4.4E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.4E-05
	sec-Butylbenzene	1.2E-04	mg/m^3	1.2E-04	mg/m^3	M	1.7E-05	mg/kg-day	--	--	--
	Ethylbenzene	2.8E-02	mg/m^3	2.8E-02	mg/m^3	M	4.2E-03	mg/kg-day	--	--	--
	Isopropylbenzene	4.9E-01	mg/m^3	4.9E-01	mg/m^3	M	7.3E-02	mg/kg-day	--	--	--
	Naphthalene	9.2E-07	mg/m^3	9.2E-07	mg/m^3	M	1.4E-07	mg/kg-day	--	--	--
	n-Propylbenzene	6.6E-03	mg/m^3	6.6E-03	mg/m^3	M	9.9E-04	mg/kg-day	--	--	--
	Tetrachloroethene	4.6E-02	mg/m^3	4.6E-02	mg/m^3	M	6.9E-03	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.4E-04
	Toluene	1.1E-02	mg/m^3	1.1E-02	mg/m^3	M	1.6E-03	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	1.9E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.35.2. Tiers 1 and 2

RME CALCULATION OF CANCER RISKS

INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT

PARCEL LOCATION: Magellan Drive

Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	Benzene	2.4E-04	mg/m^3	2.4E-04	mg/m^3	M	3.6E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.6E-06
										Total Risk Across All Exposure Routes/Pathways	3.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.35.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	1.9E-06	--	1.9E-06	Benzene	Blood	--	3.1E-03	--	3.1E-03
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	9.4E-05	--	9.4E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.6E-04	--	8.6E-04
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	1.2E-01	--	1.2E-01
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	1.2E-05	--	1.2E-05
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	4.5E-03	--	4.5E-03
			Tetrachloroethene	--	5.8E-06	--	5.8E-06	Tetrachloroethene	Liver/Kidney	--	7.8E-02	--	7.8E-02
			Toluene	--	--	--	--	Toluene	CNS	--	2.1E-03	--	2.1E-03
			(Total)	--	7.7E-06	--	7.7E-06	(Total)		--	2.1E-01	--	2.1E-01
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	5.8E-07	--	5.8E-07	Benzene	Blood	--	9.4E-04	--	9.4E-04
			(Total)	--	5.8E-07	--	5.8E-07	(Total)		--	9.4E-04	--	9.4E-04

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	7.7E-06	Total Hazard Index for Shallow Soil-to-Indoor Air =	2.1E-01
Total Risk for Deep Soil-to-Indoor Air =	5.8E-07	Total Hazard Index for Deep Soil-to-Indoor Air =	9.4E-04
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.35.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Magellan Drive
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	4.4E-05	--	4.4E-05	Benzene	Blood	--	1.1E-01	--	1.1E-01
			sec-Butylbenzene	--	--	--	--	sec-Butylbenzene	Liver/Kidney	--	1.9E-03	--	1.9E-03
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.1E-02	--	3.1E-02
			Isopropylbenzene	--	--	--	--	Isopropylbenzene	Kidney	--	2.8E+00	--	2.8E+00
			Naphthalene	--	--	--	--	Naphthalene	Nasal Effects	--	2.3E-04	--	2.3E-04
			n-Propylbenzene	--	--	--	--	n-Propylbenzene	--	--	1.1E-01	--	1.1E-01
			Tetrachloroethene	--	1.4E-04	--	1.4E-04	Tetrachloroethene	Liver/Kidney	--	3.0E+00	--	3.0E+00
			Toluene	--	--	--	--	Toluene	CNS	--	7.9E-02	--	7.9E-02
			(Total)	--	1.9E-04	--	1.9E-04	(Total)		--	6.1E+00	--	6.1E+00
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			Benzene	--	3.6E-06	--	3.6E-06	Benzene	Blood	--	9.0E-03	--	9.0E-03
			(Total)	--	3.6E-06	--	3.6E-06	(Total)		--	9.0E-03	--	9.0E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	1.9E-04	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.1E+00
Total Risk for Deep Soil-to-Indoor Air =	3.6E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	9.0E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (N)	**EAPC No.:** 36

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.36.2. Tiers 1 and 2

RME CALCULATION OF NONCANCER HAZARDS

INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT

PARCEL LOCATION: Pacific Gateway (N)

Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.2E-05	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	6.9E-03
	1,3,5-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.6E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	9.4E-04
	4-Ethyl Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	1.7E-05	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	8.6E-05
	Benzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	7.5E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E-05
	Ethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	1.8E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	3.2E-06
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Xylenes	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	1.3E-06	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	6.6E-06
												Total Hazard Index Across All Exposure Routes/Pathways	1.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.36.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	2.7E-06	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.8E-07	mg/kg-day	--	--	--
	4-Ethyl Toluene	2.7E-05	mg/m^3	2.7E-05	mg/m^3	M	4.0E-06	mg/kg-day	--	--	--
	Benzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Ethylbenzene	2.8E-06	mg/m^3	2.8E-06	mg/m^3	M	4.2E-07	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
	Xylenes	2.1E-06	mg/m^3	2.1E-06	mg/m^3	M	3.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	2.8E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.36.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (N)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	6.9E-03	--	6.9E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	9.4E-04	--	9.4E-04
			4-Ethyl Toluene	--	--	--	--	4-Ethyl Toluene	CNS	--	8.6E-05	--	8.6E-05
			Benzene	--	1.7E-08	--	1.7E-08	Benzene	Blood	--	4.3E-05	--	4.3E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	3.2E-06	--	3.2E-06
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Xylenes	--	--	--	--	Xylenes	CNS	--	6.6E-06	--	6.6E-06
			(Total)	--	2.8E-07	--	2.8E-07	(Total)		--	1.3E-02	--	1.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	2.8E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	1.3E-02
Total Risk for Deep Soil-to-Indoor Air =	--	Total Hazard Index for Deep Soil-to-Indoor Air =	--
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Pacific Gateway (S)	**EAPC No.:** 37

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.37.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	3.6E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-04
	1,3,5-Trimethylbenzene	1.2E-07	mg/m^3	1.2E-07	mg/m^3	M	1.7E-08	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.0E-05
	Benzene	4.7E-07	mg/m^3	4.7E-07	mg/m^3	M	6.8E-08	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.0E-06
	Chloroform	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	3.1E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	3.7E-05
	Ethylbenzene	3.5E-05	mg/m^3	3.5E-05	mg/m^3	M	5.2E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	9.1E-06
	Styrene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	1.6E-08	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	6.4E-08
	Tetrachloroethene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	3.6E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.6E-04
	Toluene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	1.6E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-06
	Trichloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
	Xylenes	3.2E-07	mg/m^3	3.2E-07	mg/m^3	M	4.7E-08	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.4E-07
												Total Hazard Index Across All Exposure Routes/Pathways	6.5E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.1. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	9.3E-07	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	2.3E-04
	1,2-Dichloroethane	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	1.3E-04	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-03
	Benzene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	3.4E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.0E-03
	Chloroform	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.5E-05
	Ethylbenzene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	8.8E-06	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-05
	Toluene	1.0E-06	mg/m^3	1.0E-06	mg/m^3	M	1.5E-07	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.8E-06
	Trichloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	1.4E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	3.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	3.7E-06	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	2.1E-03
	1,3,5-Trimethylbenzene	2.8E-07	mg/m^3	2.8E-07	mg/m^3	M	1.8E-07	mg/kg-day	1.7E-03	mg/kg-day	6.0E-03	mg/m3	1.0E-04
	Benzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	7.5E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	4.3E-05
	Chloroform	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	4.7E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	5.5E-04
	Ethylbenzene	7.9E-05	mg/m^3	7.9E-05	mg/m^3	M	5.0E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	8.8E-05
	Styrene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	2.3E-04	mg/kg-day	2.6E-01	mg/kg-day	9.0E-01	mg/m3	9.0E-04
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	5.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	5.5E-03
	Toluene	2.6E-06	mg/m^3	2.6E-06	mg/m^3	M	1.6E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.9E-05
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	3.3E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	2.0E-04
	Xylenes	7.3E-07	mg/m^3	7.3E-07	mg/m^3	M	4.6E-07	mg/kg-day	2.0E-01	mg/kg-day	7.0E-01	mg/m3	2.3E-06
												Total Hazard Index Across All Exposure Routes/Pathways	9.5E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 7.37.2. Tiers 1 and 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
	1,1,2-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	9.5E-06	mg/kg-day	4.0E-03	mg/kg-day	1.4E-02	mg/m3	2.4E-03
	1,2-Dichloroethane	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	1.3E-03	mg/kg-day	1.1E-01	mg/kg-day	4.0E-01	mg/m3	1.2E-02
	Benzene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	3.2E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-02
	Chloroform	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	2.2E-05	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	2.6E-04
	Ethylbenzene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	8.5E-05	mg/kg-day	5.7E-01	mg/kg-day	2.0E+00	mg/m3	1.5E-04
	Toluene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	1.5E-06	mg/kg-day	8.6E-02	mg/kg-day	3.0E-01	mg/m3	1.7E-05
	Trichloroethene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	1.4E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.4E-05
												Total Hazard Index Across All Exposure Routes/Pathways	3.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Chronic reference dose.

TABLE 8.37.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	2.5E-06	mg/m^3	2.5E-06	mg/m^3	M	1.3E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	1.2E-07	mg/m^3	1.2E-07	mg/m^3	M	6.2E-09	mg/kg-day	--	--	--
	Benzene	4.7E-07	mg/m^3	4.7E-07	mg/m^3	M	2.4E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.4E-09
	Chloroform	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.1E-08
	Ethylbenzene	3.5E-05	mg/m^3	3.5E-05	mg/m^3	M	1.9E-06	mg/kg-day	--	--	--
	Styrene	1.1E-07	mg/m^3	1.1E-07	mg/m^3	M	5.8E-09	mg/kg-day	--	--	--
	Tetrachloroethene	2.5E-05	mg/m^3	2.5E-05	mg/m^3	M	1.3E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-08
	Toluene	1.1E-06	mg/m^3	1.1E-06	mg/m^3	M	5.6E-08	mg/kg-day	--	--	--
	Trichloroethene	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	7.9E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.5E-09
	Xylenes	3.2E-07	mg/m^3	3.2E-07	mg/m^3	M	1.7E-08	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.1. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): COMMERCIAL WORKER
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	6.3E-06	mg/m^3	6.3E-06	mg/m^3	M	3.3E-07	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.9E-08
	1,2-Dichloroethane	9.0E-04	mg/m^3	9.0E-04	mg/m^3	M	4.7E-05	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	3.4E-06
	Benzene	2.3E-04	mg/m^3	2.3E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
	Chloroform	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	7.7E-07	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	1.5E-08
	Ethylbenzene	6.0E-05	mg/m^3	6.0E-05	mg/m^3	M	3.1E-06	mg/kg-day	--	--	--
	Toluene	1.0E-06	mg/m^3	1.0E-06	mg/m^3	M	5.5E-08	mg/kg-day	--	--	--
	Trichloroethene	9.6E-06	mg/m^3	9.6E-06	mg/m^3	M	5.1E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
										Total Risk Across All Exposure Routes/Pathways	4.6E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (SHALLOW SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Shallow Soil (0-15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,2,4-Trimethylbenzene	5.8E-06	mg/m^3	5.8E-06	mg/m^3	M	8.6E-07	mg/kg-day	--	--	--
	1,3,5-Trimethylbenzene	2.8E-07	mg/m^3	2.8E-07	mg/m^3	M	4.2E-08	mg/kg-day	--	--	--
	Benzene	1.2E-06	mg/m^3	1.2E-06	mg/m^3	M	1.7E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.7E-08
	Chloroform	7.4E-05	mg/m^3	7.4E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	2.1E-07
	Ethylbenzene	7.9E-05	mg/m^3	7.9E-05	mg/m^3	M	1.2E-05	mg/kg-day	--	--	--
	Styrene	3.6E-04	mg/m^3	3.6E-04	mg/m^3	M	5.4E-05	mg/kg-day	--	--	--
	Tetrachloroethene	8.6E-05	mg/m^3	8.6E-05	mg/m^3	M	1.3E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.7E-07
	Toluene	2.6E-06	mg/m^3	2.6E-06	mg/m^3	M	3.8E-07	mg/kg-day	--	--	--
	Trichloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	7.8E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.5E-08
	Xylenes	7.3E-07	mg/m^3	7.3E-07	mg/m^3	M	1.1E-07	mg/kg-day	--	--	--
										Total Risk Across All Exposure Routes/Pathways	5.5E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.37.2. Tiers 1 and 2
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS (DEEP SOIL): RESIDENT
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Medium: Deep Soil (>15' bgs)
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
	1,1,2-Trichloroethane	1.5E-05	mg/m^3	1.5E-05	mg/m^3	M	2.2E-06	mg/kg-day	5.7E-02	$mg/kg\text{-}day^{-1}$	1.3E-07
	1,2-Dichloroethane	2.1E-03	mg/m^3	2.1E-03	mg/m^3	M	3.1E-04	mg/kg-day	7.2E-02	$mg/kg\text{-}day^{-1}$	2.3E-05
	Benzene	5.0E-04	mg/m^3	5.0E-04	mg/m^3	M	7.4E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.4E-06
	Chloroform	3.4E-05	mg/m^3	3.4E-05	mg/m^3	M	5.1E-06	mg/kg-day	1.9E-02	$mg/kg\text{-}day^{-1}$	9.7E-08
	Ethylbenzene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	2.0E-05	mg/kg-day	--	--	--
	Toluene	2.3E-06	mg/m^3	2.3E-06	mg/m^3	M	3.5E-07	mg/kg-day	--	--	--
	Trichloroethene	2.3E-05	mg/m^3	2.3E-05	mg/m^3	M	3.4E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.4E-08
										Total Risk Across All Exposure Routes/Pathways	3.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.37.1. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL WORKER EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-04	--	2.1E-04
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.0E-05	--	1.0E-05
			Benzene	--	2.4E-09	--	2.4E-09	Benzene	Blood	--	4.0E-06	--	4.0E-06
			Chloroform	--	2.1E-08	--	2.1E-08	Chloroform	Kidney	--	3.7E-05	--	3.7E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	9.1E-06	--	9.1E-06
			Styrene	--	--	--	--	Styrene	CNS	--	6.4E-08	--	6.4E-08
			Tetrachloroethene	--	2.7E-08	--	2.7E-08	Tetrachloroethene	Liver/Kidney	--	3.6E-04	--	3.6E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E-06	--	1.8E-06
			Trichloroethene	--	5.5E-09	--	5.5E-09	Trichloroethene	CNS	--	1.3E-05	--	1.3E-05
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.4E-07	--	2.4E-07
			(Total)	--	5.7E-08	--	5.7E-08	(Total)		--	6.5E-04	--	6.5E-04
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.9E-08	--	1.9E-08	1,1,2-Trichloroethane	NOAEL	--	2.3E-04	--	2.3E-04
			1,2-Dichloroethane	--	3.4E-06	--	3.4E-06	1,2-Dichloroethane	Liver	--	1.2E-03	--	1.2E-03
			Benzene	--	1.2E-06	--	1.2E-06	Benzene	Blood	--	2.0E-03	--	2.0E-03
			Chloroform	--	1.5E-08	--	1.5E-08	Chloroform	Kidney	--	2.5E-05	--	2.5E-05
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-05	--	1.5E-05
			Toluene	--	--	--	--	Toluene	CNS	--	1.8E-06	--	1.8E-06
			Trichloroethene	--	3.5E-09	--	3.5E-09	Trichloroethene	CNS	--	8.3E-06	--	8.3E-06
			(Total)	--	4.6E-06	--	4.6E-06	(Total)		--	3.4E-03	--	3.4E-03

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.7E-08	Total Hazard Index for Shallow Soil-to-Indoor Air =	6.5E-04
Total Risk for Deep Soil-to-Indoor Air =	4.6E-06	Total Hazard Index for Deep Soil-to-Indoor Air =	3.4E-03
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

TABLE 9.37.2. Tiers 1 and 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL LOCATION: Pacific Gateway (S)
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Noncancer Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface and Subsurface Soil	Indoor Air	Predicted Shallow Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,2,4-Trimethylbenzene	--	--	--	--	1,2,4-Trimethylbenzene	CNS	--	2.1E-03	--	2.1E-03
			1,3,5-Trimethylbenzene	--	--	--	--	1,3,5-Trimethylbenzene	CNS	--	1.0E-04	--	1.0E-04
			Benzene	--	1.7E-08	--	1.7E-08	Benzene	Blood	--	4.3E-05	--	4.3E-05
			Chloroform	--	2.1E-07	--	2.1E-07	Chloroform	Kidney	--	5.5E-04	--	5.5E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	8.8E-05	--	8.8E-05
			Styrene	--	--	--	--	Styrene	CNS	--	9.0E-04	--	9.0E-04
			Tetrachloroethene	--	2.7E-07	--	2.7E-07	Tetrachloroethene	Liver/Kidney	--	5.5E-03	--	5.5E-03
			Toluene	--	--	--	--	Toluene	CNS	--	1.9E-05	--	1.9E-05
			Trichloroethene	--	5.5E-08	--	5.5E-08	Trichloroethene	CNS	--	2.0E-04	--	2.0E-04
			Xylenes	--	--	--	--	Xylenes	CNS	--	2.3E-06	--	2.3E-06
			(Total)	--	5.5E-07	--	5.5E-07	(Total)		--	9.5E-03	--	9.5E-03
Deep Soil (>15' bgs)	Indoor Air	Predicted Deep Soil to Indoor Air Concentrations Using the J&E Model	**VOCs**					**VOCs**					
			1,1,2-Trichloroethane	--	1.3E-07	--	1.3E-07	1,1,2-Trichloroethane	NOAEL	--	2.4E-03	--	2.4E-03
			1,2-Dichloroethane	--	2.3E-05	--	2.3E-05	1,2-Dichloroethane	Liver	--	1.2E-02	--	1.2E-02
			Benzene	--	7.4E-06	--	7.4E-06	Benzene	Blood	--	1.9E-02	--	1.9E-02
			Chloroform	--	9.7E-08	--	9.7E-08	Chloroform	Kidney	--	2.6E-04	--	2.6E-04
			Ethylbenzene	--	--	--	--	Ethylbenzene	Developmental	--	1.5E-04	--	1.5E-04
			Toluene	--	--	--	--	Toluene	CNS	--	1.7E-05	--	1.7E-05
			Trichloroethene	--	2.4E-08	--	2.4E-08	Trichloroethene	CNS	--	8.4E-05	--	8.4E-05
			(Total)	--	3.0E-05	--	3.0E-05	(Total)		--	3.3E-02	--	3.3E-02

Total Risk Across Surface Soil =	--	Total Hazard Index Across Surface Soil =	--
Total Risk Across Shallow Soil (0-15' bgs) =	--	Total Hazard Index Across Shallow Soil (0-15' bgs) =	--
Total Risk for Shallow Soil-to-Indoor Air =	5.5E-07	Total Hazard Index for Shallow Soil-to-Indoor Air =	9.5E-03
Total Risk for Deep Soil-to-Indoor Air =	3.0E-05	Total Hazard Index for Deep Soil-to-Indoor Air =	3.3E-02
Total Risk Across Groundwater =	--	Total Hazard Index Across Groundwater =	--

Note: " -- " not applicable or not available

Parcel: Site-Wide Groundwater

Combined Tier 1 (non-BTEX Compounds) and Tier 2 (BTEX) Evaluation

TABLE 7.39.1. Tier 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS: COMMERCIAL WORKER
PARCEL-SPECIFIC EVALUATION
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Parcel	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
31-20	Benzene	3.0E-09	mg/m^3	3.0E-09	mg/m^3	M	5.9E-10	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.4E-08
31-7	Benzene	2.7E-09	mg/m^3	2.7E-09	mg/m^3	M	5.2E-10	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.0E-08
33-30	Benzene	6.3E-08	mg/m^3	6.3E-08	mg/m^3	M	1.2E-08	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.2E-07
33-40	Benzene	3.0E-09	mg/m^3	3.0E-09	mg/m^3	M	5.9E-10	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.4E-08
33-900	Benzene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	5.0E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.9E-02
34-45	Benzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	5.8E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.4E-03
34-66	Benzene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	3.5E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.0E-03
34-68	Benzene	9.0E-06	mg/m^3	9.0E-06	mg/m^3	M	1.8E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.0E-04
34-73	Benzene	8.7E-07	mg/m^3	8.7E-07	mg/m^3	M	1.7E-07	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	9.9E-06
34-76	Benzene	3.3E-08	mg/m^3	3.3E-08	mg/m^3	M	6.4E-09	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.8E-07
34-803	Benzene	2.2E-08	mg/m^3	2.2E-08	mg/m^3	M	4.4E-09	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.6E-07
34-901	Benzene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	1.9E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.1E-02
Magellan Dr	Benzene	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	5.8E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	3.4E-04
31-20	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	4.3E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-05
31-7	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	4.3E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-05
33-30	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	4.3E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-05
33-40	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	4.3E-07	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-05
33-900	Tetrachloroethene	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
34-45	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	4.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.2E-04
34-66	Tetrachloroethene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	1.4E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.4E-04
34-68	Tetrachloroethene	2.2E-04	mg/m^3	2.2E-04	mg/m^3	M	4.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-03
34-73	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	4.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.3E-04
34-76	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	4.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.2E-04
34-803	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	3.0E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.0E-02
34-901	Tetrachloroethene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.8E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.8E-03
Magellan Dr	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	4.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	4.2E-04
31-20	Trichloroethene	7.7E-06	mg/m^3	7.7E-06	mg/m^3	M	1.5E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.7E-06
31-7	Trichloroethene	5.7E-06	mg/m^3	5.7E-06	mg/m^3	M	1.1E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.5E-06
33-30	Trichloroethene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	2.8E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-06
33-40	Trichloroethene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	2.8E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-06
33-900	Trichloroethene	3.5E-05	mg/m^3	3.5E-05	mg/m^3	M	6.9E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.1E-05
34-45	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
34-66	Trichloroethene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	1.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.0E-04
34-68	Trichloroethene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	2.8E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-04
34-73	Trichloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	2.8E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.6E-05
34-76	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05
34-803	Trichloroethene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	1.4E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.1E-06
34-901	Trichloroethene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	8.9E-07	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.2E-06
Magellan Dr	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	2.2E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.3E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation. (2) Chronic reference dose.

TABLE 7.39.2. Tier 2
RME CALCULATION OF NONCANCER HAZARDS
INHALATION OF INDOOR AIR VAPORS: RESIDENT
PARCEL-SPECIFIC EVALUATION
Del Amo Site

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Residents
Receptor Age: Child

Parcel	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Noncancer)	Intake (Noncancer) Units	Inhalation Reference Dose (2)	Inhalation Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	**VOCs**												
31-20	Benzene	6.8E-09	mg/m^3	6.8E-09	mg/m^3	M	4.3E-09	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-07
31-7	Benzene	6.0E-09	mg/m^3	6.0E-09	mg/m^3	M	3.8E-09	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-07
33-30	Benzene	1.4E-07	mg/m^3	1.4E-07	mg/m^3	M	9.1E-08	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	5.3E-06
33-40	Benzene	6.8E-09	mg/m^3	6.8E-09	mg/m^3	M	4.3E-09	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-07
33-900	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	3.7E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.2E-01
34-45	Benzene	6.7E-04	mg/m^3	6.7E-04	mg/m^3	M	4.3E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-02
34-66	Benzene	4.0E-04	mg/m^3	4.0E-04	mg/m^3	M	2.5E-04	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.5E-02
34-68	Benzene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	1.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.5E-04
34-73	Benzene	2.0E-06	mg/m^3	2.0E-06	mg/m^3	M	1.3E-06	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	7.3E-05
34-76	Benzene	7.4E-08	mg/m^3	7.4E-08	mg/m^3	M	4.7E-08	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.8E-06
34-803	Benzene	5.1E-08	mg/m^3	5.1E-08	mg/m^3	M	3.2E-08	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	1.9E-06
34-901	Benzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	1.4E-03	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	8.3E-02
Magellan Dr	Benzene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	4.3E-05	mg/kg-day	1.7E-02	mg/kg-day	6.0E-02	mg/m3	2.5E-03
31-20	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	3.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-04
31-7	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	3.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-04
33-30	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	3.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-04
33-40	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	3.3E-06	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-04
33-900	Tetrachloroethene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	8.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	8.3E-03
34-45	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	3.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-03
34-66	Tetrachloroethene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	1.1E-03
34-68	Tetrachloroethene	5.2E-04	mg/m^3	5.2E-04	mg/m^3	M	3.3E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-02
34-73	Tetrachloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	3.3E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.3E-03
34-76	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	3.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-03
34-803	Tetrachloroethene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	2.3E-03	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.3E-01
34-901	Tetrachloroethene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	2.1E-04	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	2.1E-02
Magellan Dr	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	3.2E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-02	mg/m3	3.2E-03
31-20	Trichloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	1.2E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.7E-05
31-7	Trichloroethene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	8.5E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	5.0E-05
33-30	Trichloroethene	3.3E-06	mg/m^3	3.3E-06	mg/m^3	M	2.1E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-05
33-40	Trichloroethene	3.3E-06	mg/m^3	3.3E-06	mg/m^3	M	2.1E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-05
33-900	Trichloroethene	8.3E-05	mg/m^3	8.3E-05	mg/m^3	M	5.3E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	3.1E-04
34-45	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.7E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	9.7E-05
34-66	Trichloroethene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	1.4E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	8.0E-04
34-68	Trichloroethene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	2.1E-04	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-03
34-73	Trichloroethene	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	2.1E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	1.2E-04
34-76	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.7E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	9.7E-05
34-803	Trichloroethene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	1.1E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	6.2E-05
34-901	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	6.8E-06	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	4.0E-05
Magellan Dr	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	1.7E-05	mg/kg-day	1.7E-01	mg/kg-day	6.0E-01	mg/m3	9.7E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation. (2) Chronic reference dose.

TABLE 8.39.1.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS: COMMERCIAL WORKER
PARCEL-SPECIFIC EVALUATION
Del Amo Site

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor air vapors
Receptor Population: Commercial Worker
Receptor Age: Adult

Parcel	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
31-20	Benzene	3.0E-09	mg/m^3	3.0E-09	mg/m^3	M	2.1E-10	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-11
31-7	Benzene	2.7E-09	mg/m^3	2.7E-09	mg/m^3	M	1.9E-10	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.9E-11
33-30	Benzene	6.3E-08	mg/m^3	6.3E-08	mg/m^3	M	4.4E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	4.4E-10
33-40	Benzene	3.0E-09	mg/m^3	3.0E-09	mg/m^3	M	2.1E-10	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-11
33-900	Benzene	2.6E-03	mg/m^3	2.6E-03	mg/m^3	M	1.8E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.8E-05
34-45	Benzene	3.0E-04	mg/m^3	3.0E-04	mg/m^3	M	2.1E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-06
34-66	Benzene	1.8E-04	mg/m^3	1.8E-04	mg/m^3	M	1.2E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.2E-06
34-68	Benzene	9.0E-06	mg/m^3	9.0E-06	mg/m^3	M	6.3E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.3E-08
34-73	Benzene	8.7E-07	mg/m^3	8.7E-07	mg/m^3	M	6.1E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.1E-09
34-76	Benzene	3.3E-08	mg/m^3	3.3E-08	mg/m^3	M	2.3E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.3E-10
34-803	Benzene	2.2E-08	mg/m^3	2.2E-08	mg/m^3	M	1.6E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.6E-10
34-901	Benzene	9.9E-04	mg/m^3	9.9E-04	mg/m^3	M	6.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	6.9E-06
Magellan Dr	Benzene	3.0E-05	mg/m^3	3.0E-05	mg/m^3	M	2.1E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-07
31-20	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	1.5E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-09
31-7	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	1.5E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-09
33-30	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	1.5E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-09
33-40	Tetrachloroethene	2.2E-06	mg/m^3	2.2E-06	mg/m^3	M	1.5E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-09
33-900	Tetrachloroethene	5.5E-05	mg/m^3	5.5E-05	mg/m^3	M	3.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	8.1E-08
34-45	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.1E-08
34-66	Tetrachloroethene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	4.9E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.0E-08
34-68	Tetrachloroethene	2.2E-04	mg/m^3	2.2E-04	mg/m^3	M	1.5E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-07
34-73	Tetrachloroethene	2.2E-05	mg/m^3	2.2E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.2E-08
34-76	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.1E-08
34-803	Tetrachloroethene	1.5E-03	mg/m^3	1.5E-03	mg/m^3	M	1.1E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.3E-06
34-901	Tetrachloroethene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.9E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	2.1E-07
Magellan Dr	Tetrachloroethene	2.1E-05	mg/m^3	2.1E-05	mg/m^3	M	1.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	3.1E-08
31-20	Trichloroethene	7.7E-06	mg/m^3	7.7E-06	mg/m^3	M	5.4E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.7E-09
31-7	Trichloroethene	5.7E-06	mg/m^3	5.7E-06	mg/m^3	M	4.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.8E-09
33-30	Trichloroethene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	9.9E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.9E-10
33-40	Trichloroethene	1.4E-06	mg/m^3	1.4E-06	mg/m^3	M	9.9E-08	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.9E-10
33-900	Trichloroethene	3.5E-05	mg/m^3	3.5E-05	mg/m^3	M	2.5E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.7E-08
34-45	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	7.7E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.4E-09
34-66	Trichloroethene	9.1E-05	mg/m^3	9.1E-05	mg/m^3	M	6.3E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	4.4E-08
34-68	Trichloroethene	1.4E-04	mg/m^3	1.4E-04	mg/m^3	M	9.9E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.9E-08
34-73	Trichloroethene	1.4E-05	mg/m^3	1.4E-05	mg/m^3	M	9.9E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	6.9E-09
34-76	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	7.7E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.4E-09
34-803	Trichloroethene	7.1E-06	mg/m^3	7.1E-06	mg/m^3	M	5.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
34-901	Trichloroethene	4.5E-06	mg/m^3	4.5E-06	mg/m^3	M	3.2E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.2E-09
Magellan Dr	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	7.7E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	5.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.39.2.RME
RME CALCULATION OF CANCER RISKS
INHALATION OF INDOOR AIR VAPORS: RESIDENT
PARCEL-SPECIFIC EVALUATION
Del Amo Site

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Indoor Air
Exposure Point: Indoor Air vapors
Receptor Population: Residents
Receptor Age: Adult and Child

Parcel	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Inhalation Cancer Slope Factor	Inhalation Cancer Slope Factor Units	Cancer Risk
Inhalation	**VOCs**										
31-20	Benzene	6.8E-09	mg/m^3	6.8E-09	mg/m^3	M	1.0E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-10
31-7	Benzene	6.0E-09	mg/m^3	6.0E-09	mg/m^3	M	8.9E-10	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.9E-11
33-30	Benzene	1.4E-07	mg/m^3	1.4E-07	mg/m^3	M	2.1E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.1E-09
33-40	Benzene	6.8E-09	mg/m^3	6.8E-09	mg/m^3	M	1.0E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-10
33-900	Benzene	5.8E-03	mg/m^3	5.8E-03	mg/m^3	M	8.6E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	8.6E-05
34-45	Benzene	6.7E-04	mg/m^3	6.7E-04	mg/m^3	M	1.0E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-05
34-66	Benzene	4.0E-04	mg/m^3	4.0E-04	mg/m^3	M	5.9E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	5.9E-06
34-68	Benzene	2.0E-05	mg/m^3	2.0E-05	mg/m^3	M	3.0E-06	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.0E-07
34-73	Benzene	2.0E-06	mg/m^3	2.0E-06	mg/m^3	M	2.9E-07	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	2.9E-08
34-76	Benzene	7.4E-08	mg/m^3	7.4E-08	mg/m^3	M	1.1E-08	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.1E-09
34-803	Benzene	5.1E-08	mg/m^3	5.1E-08	mg/m^3	M	7.5E-09	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	7.5E-10
34-901	Benzene	2.2E-03	mg/m^3	2.2E-03	mg/m^3	M	3.3E-04	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	3.3E-05
Magellan Dr	Benzene	6.7E-05	mg/m^3	6.7E-05	mg/m^3	M	1.0E-05	mg/kg-day	1.0E-01	$mg/kg\text{-}day^{-1}$	1.0E-06
31-20	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	7.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
31-7	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	7.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
33-30	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	7.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
33-40	Tetrachloroethene	5.2E-06	mg/m^3	5.2E-06	mg/m^3	M	7.7E-07	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-08
33-900	Tetrachloroethene	1.3E-04	mg/m^3	1.3E-04	mg/m^3	M	1.9E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	4.1E-07
34-45	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	7.4E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-07
34-66	Tetrachloroethene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	2.5E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	5.2E-08
34-68	Tetrachloroethene	5.2E-04	mg/m^3	5.2E-04	mg/m^3	M	7.7E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-06
34-73	Tetrachloroethene	5.2E-05	mg/m^3	5.2E-05	mg/m^3	M	7.7E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-07
34-76	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	7.4E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-07
34-803	Tetrachloroethene	3.6E-03	mg/m^3	3.6E-03	mg/m^3	M	5.4E-04	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.1E-05
34-901	Tetrachloroethene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	4.9E-05	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.0E-06
Magellan Dr	Tetrachloroethene	5.0E-05	mg/m^3	5.0E-05	mg/m^3	M	7.4E-06	mg/kg-day	2.1E-02	$mg/kg\text{-}day^{-1}$	1.6E-07
31-20	Trichloroethene	1.8E-05	mg/m^3	1.8E-05	mg/m^3	M	2.7E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.9E-08
31-7	Trichloroethene	1.3E-05	mg/m^3	1.3E-05	mg/m^3	M	2.0E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.4E-08
33-30	Trichloroethene	3.3E-06	mg/m^3	3.3E-06	mg/m^3	M	5.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
33-40	Trichloroethene	3.3E-06	mg/m^3	3.3E-06	mg/m^3	M	5.0E-07	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-09
33-900	Trichloroethene	8.3E-05	mg/m^3	8.3E-05	mg/m^3	M	1.2E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	8.7E-08
34-45	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.9E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-08
34-66	Trichloroethene	2.1E-04	mg/m^3	2.1E-04	mg/m^3	M	3.2E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.2E-07
34-68	Trichloroethene	3.3E-04	mg/m^3	3.3E-04	mg/m^3	M	5.0E-05	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-07
34-73	Trichloroethene	3.3E-05	mg/m^3	3.3E-05	mg/m^3	M	5.0E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	3.5E-08
34-76	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.9E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-08
34-803	Trichloroethene	1.7E-05	mg/m^3	1.7E-05	mg/m^3	M	2.5E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.7E-08
34-901	Trichloroethene	1.1E-05	mg/m^3	1.1E-05	mg/m^3	M	1.6E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	1.1E-08
Magellan Dr	Trichloroethene	2.6E-05	mg/m^3	2.6E-05	mg/m^3	M	3.9E-06	mg/kg-day	7.0E-03	$mg/kg\text{-}day^{-1}$	2.7E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 9.39.1. Tier 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
COMMERCIAL EXPOSURE SCENARIO
PARCEL-SPECIFIC EVALUATION
Del Amo Site

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

Medium	Exposure Medium	Exposure Point	Parcel	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient			
				Benzene	PCE	TCE	Cumulative Risk	Benzene	PCE	TCE	Cumulative Hazard
Groundwater	Air	Indoor Air									
			31-20	2.1E-11	3.2E-09	3.7E-09	7.0E-09	3.4E-08	4.3E-05	8.7E-06	5.2E-05
			31-7	1.9E-11	3.2E-09	2.8E-09	6.0E-09	3.0E-08	4.3E-05	6.5E-06	5.0E-05
			33-30	4.4E-10	3.2E-09	6.9E-10	4.4E-09	7.2E-07	4.3E-05	1.6E-06	4.6E-05
			33-40	2.1E-11	3.2E-09	6.9E-10	4.0E-09	3.4E-08	4.3E-05	1.6E-06	4.5E-05
			33-900	1.8E-05	8.1E-08	1.7E-08	1.8E-05	2.9E-02	1.1E-03	4.1E-05	3.0E-02
			34-45	2.1E-06	3.1E-08	5.4E-09	2.1E-06	3.4E-03	4.2E-04	1.3E-05	3.8E-03
			34-66	1.2E-06	1.0E-08	4.4E-08	1.3E-06	2.0E-03	1.4E-04	1.0E-04	2.3E-03
			34-68	6.3E-08	3.2E-07	6.9E-08	4.6E-07	1.0E-04	4.3E-03	1.6E-04	4.6E-03
			34-73	6.1E-09	3.2E-08	6.9E-09	4.5E-08	9.9E-06	4.3E-04	1.6E-05	4.6E-04
			34-76	2.3E-10	3.1E-08	5.4E-09	3.7E-08	3.8E-07	4.2E-04	1.3E-05	4.3E-04
			34-803	1.6E-10	2.3E-06	3.5E-09	2.3E-06	2.6E-07	3.0E-02	8.1E-06	3.0E-02
			34-901	6.9E-06	2.1E-07	2.2E-09	7.1E-06	1.1E-02	2.8E-03	5.2E-06	1.4E-02
			Magellan Dr	2.1E-07	3.1E-08	5.4E-09	2.5E-07	3.4E-04	4.2E-04	1.3E-05	7.7E-04

Note: " -- " not applicable or not available

TABLE 9.39.2. Tier 2
RME SUMMARY OF CANCER RISKS AND NONCANCER HAZARDS
RESIDENTIAL EXPOSURE SCENARIO
PARCEL-SPECIFIC EVALUATION
Del Amo Site

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult and Child

Medium	Exposure Medium	Exposure Point	Parcel	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient			
				Benzene	PCE	TCE	Cumulative Risk	Benzene	PCE	TCE	Cumulative Hazard
Groundwater	Air	Indoor Air									
			31-20	1.0E-10	1.6E-08	1.9E-08	3.5E-08	2.5E-07	3.3E-04	6.7E-05	4.0E-04
			31-7	8.9E-11	1.6E-08	1.4E-08	3.0E-08	2.2E-07	3.3E-04	5.0E-05	3.8E-04
			33-30	2.1E-09	1.6E-08	3.5E-09	2.2E-08	5.3E-06	3.3E-04	1.2E-05	3.5E-04
			33-40	1.0E-10	1.6E-08	3.5E-09	2.0E-08	2.5E-07	3.3E-04	1.2E-05	3.4E-04
			33-900	8.6E-05	4.1E-07	8.7E-08	8.7E-05	2.2E-01	8.3E-03	3.1E-04	2.2E-01
			34-45	1.0E-05	1.6E-07	2.7E-08	1.0E-05	2.5E-02	3.2E-03	9.7E-05	2.8E-02
			34-66	5.9E-06	5.2E-08	2.2E-07	6.2E-06	1.5E-02	1.1E-03	8.0E-04	1.7E-02
			34-68	3.0E-07	1.6E-06	3.5E-07	2.3E-06	7.5E-04	3.3E-02	1.2E-03	3.5E-02
			34-73	2.9E-08	1.6E-07	3.5E-08	2.3E-07	7.3E-05	3.3E-03	1.2E-04	3.5E-03
			34-76	1.1E-09	1.6E-07	2.7E-08	1.8E-07	2.8E-06	3.2E-03	9.7E-05	3.3E-03
			34-803	7.5E-10	1.1E-05	1.7E-08	1.1E-05	1.9E-06	2.3E-01	6.2E-05	2.3E-01
			34-901	3.3E-05	1.0E-06	1.1E-08	3.4E-05	8.3E-02	2.1E-02	4.0E-05	1.0E-01
			Magellan Dr	1.0E-06	1.6E-07	2.7E-08	1.2E-06	2.5E-03	3.2E-03	9.7E-05	5.8E-03

Note: " -- " not applicable or not available