TABLE 5.1
Comparison of Maximum Detected Analytical Results to Mimimum Residential Risk-Based Target Concentratsions (RBTCs) for Groundwater
Hitachi Global Storage Technologies, Inc.
San Jose, California

	Miniumum Residential RBTC	Maximum Detected Concentration (mg/L)		
		Site-Wide	Parcel O-2	Parcel O-4
Volatile Organic Compounds (VOCs)				
Acetone	6200	0.0021	----	----
Benzene	0.073	0.00017	----	----
2-Butanone	11000	0.0017	----	----
Carbon tetrachloride	0.051	0.0012	----	----
Chloroethane	4000	0.00077	----	----
Chloroform	0.38	0.001	----	**0.89**
Dibromofluoromethane	NT	0.00281	----	----
1,1-Dichloroethane	1.2	0.057	----	0.00064
1,2-Dichloroethane	0.12	0.00037	----	----
1,1-Dichloroethene (Ethylene dichloride)	30	0.017	----	0.0046
cis-1,2-Dichloroethene	15	0.004	----	----
trans-1,2-Dichloroethene	28	0.0003	----	----
Freon 12 (Dichlorodifluoromethane)	66	0.01	----	----
Freon 113 (Trichlorotrifluoroethane)	9200	0.17	0.0067	----
Isopropanol	43000	1.4	----	----
Methyl chloride (Chloromethane)	1.7	0.0022	----	----
Methylene chloride (Dichloromethane)	1.9	0.00016	----	----
Tetrachloroethene	0.4	0.0062	----	----
Toluene	160	0.0008	----	0.00096
1,1,1-Trichloroethane (Methyl chloroform)	520	0.019	0.00093	0.0086
1,1,2-Trichloroethane	0.18	0.00026	----	----
Trichloroethene	1.1	0.15	0.033	0.0075
Vinyl chloride	0.02	0.0076	----	----
o-Xylene	340	0.00024	----	----
Xylenes, Total	390	0.00024	----	0.0013
Total Petroleum Hydrocarbons (TPH)				
TPH-Diesel	unlimited	0.062	----	2.3
TPH-Motor Oil	unlimited	0.5	----	3.5
TPH-Shell Sol 140	unlimited	0.16	----	----
Metals				
Chromium (VI)	NV	0.173	0.015	----
Chromium (Total)	NV	0.01	----	----
Iron	NV	0.036	----	----
Anions				
Chloride	NV	----	----	75
Nitrate	NV	----	----	46

Notes:

mg/L = milligram per liter

NT = No toxicity data is available, therefore, an RBTC could not be developed for dibromofluoromethane.

NV = Not volatile. None of the receptors is directly exposed to groundwater; therefore non-volatile chemicals present in groundwater do not pose a significant risk to human health.

---- = chemical not detected in this area.

TABLE 5.2
Analytical Results Above Residential Risk-Based Target Concentrations (RBTCs) for Groundwater
Hitachi Global Storage Technologies, Inc.
San Jose, California

Parcel	Area	Sample	Depth (feet bgs)	Chemical	Concentration (mg/L)	Lowest Residential RBTC (mg/L)
O-4	Near Building 028J	GW-028J-08	28	Chloroform	0.81	0.38
O-4	Near Building 028J	GW-028J-U	27	Chloroform	0.89	0.38

Notes:
mg/L = milligram per liter

TABLE 5.3
Comparison of Maximum Detected Analytical Results to Mimimum Residential Risk-Based Target Concentratsions (RBTCs) for Soil
Hitachi Global Storage Technologies, Inc.
San Jose, California

	Miniumum Residential RBTC	Maximum Detected Concentration (mg/kg)					
		Parcel O-1	Parcel O-2	Parcel O-3	Parcel O-4	Parcel O-5	Tucson Way
Volatile Organic Compounds (VOCs)							
Acetone	200	----	0.095	0.055	0.005	0.11	----
Chloroform	0.0087	----	----	----	**0.031**	----	----
Freon 12 (Dichlorodifluoromethane)	0.47	----	----	----	----	----	----
Freon 113 (Trichlorotrifluoroethane)	230	----	----	----	0.004	----	----
Methylene chloride (Dichloromethane)	0.05	----	----	----	**0.058**	----	----
1,1,1-Trichloroethane (Methyl chloroform)	4.7	0.008	----	----	----	----	----
1,1,2-Trichloroethane	0.0079	----	----	----	0.0044	----	----
Trichloroethene	0.026	----	0.012	----	----	----	----
Total Petroleum Hydrocarbons (TPH)							
TPH-Diesel	5200	----	41	68	250	300	19
TPH-Motor Oil	2300	----	79	560	540	69	----
TPH-Shell Sol 140	6100	----	----	----	----	----	1.6
Semi-Volatile Organic Compounds (SVOCs)							
Benzo(a)anthracene	0.38	----	----	----	0.011	----	----
Benzo(a)pyrene	0.038	----	----	----	0.015	----	----
Benzo(g,h,i)perylene	1100	----	----	----	0.015	----	----
Chrysene	3.8	----	----	----	0.021	----	----
Diethylphthalate	49000	----	----	0.17	----	----	----
Hydroquinone	8.7	----	----	----	----	----	----
Pyrene	1700	----	----	----	0.008	----	----
Pesticides							
Chlordane (Technical)	0.44	0.33	----	----	----	----	----
alpha-Chlordane	0.44	0.039	----	----	----	----	----
gamma-Chlordane	0.44	0.032	0.012	----	----	0.013	----
Dieldrin	0.03	0.01	**0.06**	----	----	**0.21**	----
DDD	2.4	0.025	0.035	----	0.0035	----	0.0042
DDE	1.7	1.3	0.6	0.23	0.29	0.38	0.023
DDT	1.7	0.67	0.17	0.048	0.043	0.072	----
Endosulfan I	370	----	----	----	----	0.13	----
Endrin	18	0.16	0.04	----	----	0.0026	----
Toxaphene	0.4	**0.43**	----	----	----	----	----
Metals							
Antimony	31	----	3.4	----	2	----	----
Arsenic [a]	0.061	11	11	8.3	**16**	**22**	0
Barium	15000	190	270	200	240	200	----
Beryllium	150	----	0.76	0.62	0.56	0.77	----
Cadmium	77	----	2.3	----	0.52	0.53	----
Chromium (Total)	120000	110	380	45	460	210	----
Cobalt	900	16	57	12	44	25	----
Copper	3100	78	140	54	86	41	----
Iron	23000	----	**110000**	----	**50000**	----	----
Lead[b]	NT	28	95	27	14	23	----
Mercury	23	0.24	0.16	0.12	0.16	0.21	----
Molybdenum	390	----	2	----	----	----	----
Nickel	1500	160	1100	68	**1800**	410	----
Silver	390	----	3.3	----	1.5	----	----
Vanadium	78	36	42	34	40	41	----
Zinc	23000	72	150	78	2100	82	----
Anions							
Chloride	NT	----	210	----	----	----	----
Fluoride	4700	----	38	----	----	----	----
Nitrate	130000	----	8500	----	----	----	----

Notes:
mg/kg = milligram per kilogram
NT = No toxicity data is available, therefore, an RBTC could not be developed.
[a] Arsenic concentrations were compared to site-specific, background concentrations measured by ENVIRON and agreed upon by DTSC.
Average concentrations of arsenic in the soil should not exceed 8 mg/kg; maximum arsenic concentrations should be less than 12 mg/kg.
[b] Lead concentrations were compared to California Human Health Screening Levels (CHHSLs) developed by the California Environmental Protection Agency (Cal/EPA). Lead concentrations measured in soil at the Site should not exceed 150 mg/kg.
---- = chemical not detected in this area.

TABLE 5.4
Analytical Results Above Residential Risk-Based Target Concentrations (RBTCs) for Soil[a]
Hitachi Global Storage Technologies, Inc.
San Jose, California

Parcel	Area	Sample Location	Depth (feet bgs)	Chemical	Concentration (mg/kg)	Lowest Residential RBTC (mg/kg)
O-1	Current Orchard Areas (2004)	1-14	0	Toxaphene	0.43	0.405
O-2	Pesticide Excavation Area	EXC-B4	2	Dieldrin	0.038	0.0303
O-2	Pesticide Excavation Area	EXC-C6-SWSouth	0	Dieldrin	0.06	0.0303
O-2	Rooms 113C and 114A - Building 026	406-02-0009	1.5	Iron	62000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0009	2	Iron	53000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0009	3.5	Iron	52000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0010	1.5	Iron	65000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0010	2	Iron	55000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0010	3.5	Iron	110000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0011	1.4	Iron	46000	23000
O-2	Rooms 113C and 114A - Building 026	406-02-0015	1	Iron	28000	23000
O-2	Step Out Sampling Near Boring 44	D6	0	Dieldrin	0.032	0.0303
O-4	Building 028J Area	028J-L	15	Chloroform	0.0093	0.00874
O-4	Building 028J Area	028J-L	20	Chloroform	0.011	0.00874
O-4	Building 028J Area	028J-M	20	Chloroform	0.0091	0.00874
O-4	Building 028J Area	28J-A	15	Chloroform	0.013	0.00874
O-4	Building 028J Area	28J-A	20	Chloroform	0.021	0.00874
O-4	Building 028J Area	28J-B	15	Chloroform	0.018	0.00874
O-4	Building 028J Area	28J-B	20	Arsenic [b]	0.021	0.00874
O-4	Building 028J Area	28J-C	5	Chloroform	0.018	0.00874
O-4	Building 028J Area	28J-C	15	Chloroform	0.016	0.00874
O-4	Building 028J Area	28J-C	20	Chloroform	0.022	0.00874
O-4	Building 028J Area	28J-D	15	Chloroform	0.021	0.00874
O-4	Building 028J Area	28J-D	20	Chloroform	0.016	0.00874
O-4	Building 028J Area	28J-E	15	Chloroform	0.021	0.00874
O-4	Building 028J Area	28J-E	20	Chloroform	0.031	0.00874
O-4	Building 028J Area	28J-G	20	Chloroform	0.027	0.00874
O-4	Building 028J Area	28J-H	15	Chloroform	0.0092	0.00874
O-4	Building 028J Area	28J-H	20	Chloroform	0.015	0.00874
O-4	Building 028J Area	28J-J	20	Chloroform	0.0097	0.00874
O-4	Building 028J Footprint	28J-3	19.5	Chloroform	0.014	0.00874
O-4	Building 028J Footprint	28J-4	10.5	Chloroform	0.014	0.00874
O-4	Building 028J Footprint	28J-4	15.5	Chloroform	0.017	0.00874
O-4	Building 028J Footprint	28J-4	19.5	Chloroform	0.015	0.00874
O-4	Building 028J Footprint	28J-7	19.5	Chloroform	0.01	0.00874

TABLE 5.4
Analytical Results Above Residential Risk-Based Target Concentrations (RBTCs) for Soil[a]
Hitachi Global Storage Technologies, Inc.
San Jose, California

Parcel	Area	Sample Location	Depth (feet bgs)	Chemical	Concentration (mg/kg)	Lowest Residential RBTC (mg/kg)
O-4	Building 028J Footprint	28J-8	19.5	Chloroform	0.01	0.00874
O-4	Current Orchard Areas (2004)	5-33	0	Arsenic	16	0.0614
O-4	Industrial Wastewater Pipe Leak	459-01-002	6	Iron	37000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-003	5.5	Iron	39000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-003	9	Iron	33000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-004	5.5	Iron	50000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-004	9	Iron	42000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-005	5.5	Iron	31000	23000
O-4	Industrial Wastewater Pipe Leak	459-01-005	9	Iron	27000	23000
O-4	Building 028J Area	28J-F	15	Chloroform	0.016	0.00874
O-4	Building 028J Area	28J-F	20	Chloroform	0.01	0.00874
O-4	Building 028J Area	28J-G	15	Chloroform	0.02	0.00874
O-4	Removal of Industrial Wastewater (IW) Pipelines	498-01-002	5.5	Iron	31000	23000
O-4	Removal of Industrial Wastewater (IW) Pipelines	498-01-009	5.5	Iron	28000	23000
O-4	Removal of Industrial Wastewater (IW) Pipelines	498-01-010	3	Nickel	1800	1490
O-4	Removal of Industrial Wastewater (IW) Pipelines	498-01-018	4.5	Iron	24000	23000
O-4	Removal of Industrial Wastewater (IW) Pipelines	498-01-019	4.5	Iron	28000	23000
O-4	Unknown - Beneath Building 028	112-01-0001	0	Methylene chloride (Dichloromethane)	0.058	0.05
O-5	Current Orchard Areas (2004)	5-24	0	Dieldrin	0.046	0.0303
O-5	Current Orchard Areas (2004)	5-24B	0	Dieldrin	0.21	0.0303
O-5	Current Orchard Areas (2004)	5-28	0	Arsenic [b]	22	0.0614
O-5	Current Orchard Areas (2004)	5-28D	0	Arsenic [b]	17	0.0614

Notes:
mg/kg = milligram per kilogram
[a] As a conservative screen, soil at all depths is compared to RBTCs developed for direct contact with soil ≤ 10 feet bgs.
[b] Arsenic concentrations were compared to site-specific, background concentrations measured by ENVIRON and agreed upon by DTSC. Average concentrations of arsenic in the soil should not exceed 8 mg/kg; maximum arsenic concentrations should be less than 12 mg/kg.

TABLE 5.5
Comparison of Maximum Detected Analytical Results to Mimimum Residential Risk-Based Target Concentratsions (RBTCs) for Soil Gas at Depth of 5 Feet
Hitachi Global Storage Technologies, Inc.
San Jose, California

	Miniumum Residential RBTC	Maximum Detected Concentration (mg/m^3)			
		Parcel O-1	Parcel O-2	Parcel O-4	Parcel O-5
Volatile Organic Compounds (VOCs)					
Benzene	0.24	**0.31**	**0.94**	0.17	----
Bromomethane (Methyl bromide)	9.3	----	0.0035	----	----
Carbon tetrachloride	0.18	----	0.0055	----	----
Chloroethane	6500	----	0.041	----	----
Chloroform	1.1	----	0.0083	**24**	----
1,1-Dichloroethane	4.9	1.9	0.19	----	----
1,1-Dichloroethene (Ethylene dichloride)	110	5	5	0.89	----
cis-1,2-Dichloroethene	65	0.33	0.25	----	----
trans-1,2-Dichloroethene	140	----	0.26	----	----
Ethylbenzene	3700	0.12	0.21	----	0.12
Freon 11 (Trichlorofluoromethane)	8900	----	120	1.2	----
Freon 12 (Dichlorodifluoromethane)	410	----	0.0069	3.8	----
Freon 113 (Trichlorotrifluoroethane)	54000	11	120	0.57	----
Freon 114 (Dichlorotetrafluoroethane)	89000	----	----	----	0.66
Methyl chloride (Chloromethane)	2.8	----	0.0029	0.0031	----
Methylene chloride (Dichloromethane)	6.1	----	0.049	0.14	----
Tetrachloroethene	1.4	0.77	0.079	----	----
Toluene	480	2.1	1.1	1.2	0.42
1,1,1-Trichloroethane (Methyl chloroform)	1800	7.1	2.7	1.1	----
Trichloroethene	3.8	**5.1**	**21**	0.35	----
1,2,4-Trimethylbenzene	11	----	0.29	0.37	0.17
1,3,5-Trimethylbenzene	11	----	0.077	0.12	0.038
m,p-Xylene	1300	0.47	0.9	0.36	0.46
o-Xylene	1100	0.17	0.3	0.25	0.15
Total Petroleum Hydrocarbons (TPH)					
Total Volatile Hydrocarbons (TVH)	110	27	50	36	44

Notes:

mg/m^3 = milligram per cubic meter

---- = chemical not detected in this area

TABLE 5.6
Comparison of Maximum Detected Analytical Results to Mimimum Residential Risk-Based Target Concentratsions (RBTCs) for Soil Gas at Depth of 10 Feet
Hitachi Global Storage Technologies, Inc.
San Jose, California

	Miniumum Residential RBTC	Maximum Detected Concentration (mg/m^3)		
		Parcel O-1	Parcel O-2	Parcel O-4
Volatile Organic Compounds (VOCs)				
Benzene	0.41	----	0.12	0.11
Carbon tetrachloride	0.31	----	----	0.11
Chloroform	1.9	----	----	**34**
1,1-Dichloroethane	8.5	1.2	0.15	----
1,1-Dichloroethene (Ethylene dichloride)	190	4.7	0.69	1.2
cis-1,2-Dichloroethene	110	0.19	0.13	----
Ethylbenzene	6400	0.098	0.12	----
Freon 11 (Trichlorofluoromethane)	16000	----	0.017	3.5
Freon 12 (Dichlorodifluoromethane)	720	----	----	2.1
Freon 113 (Trichlorotrifluoroethane)	93000	4.3	45	0.69
Tetrachloroethene	2.4	0.64	0.017	----
Toluene	830	0.4	0.46	0.74
1,1,1-Trichloroethane (Methyl chloroform)	3100	5.8	0.65	1.4
Trichloroethene	6.5	4.3	5.8	0.62
1,2,4-Trimethylbenzene	19	0.098	0.085	0.15
1,3,5-Trimethylbenzene	19	0.022	0.02	0.034
m,p-Xylene	2200	0.39	0.46	0.21
o-Xylene	1900	0.13	0.15	0.26
Total Petroleum Hydrocarbons (TPH)				
Total Volatile Hydrocarbons (TVH)	190	120	23	29

Notes:

mg/m^3 = milligram per cubic meter

---- = chemical not detected in this area

TABLE 5.7
Comparison of Maximum Detected Analytical Results to Mimimum Residential Risk-Based Target Concentratsions (RBTCs) for Soil Gas at Depth of 15 Feet
Hitachi Global Storage Technologies, Inc.
San Jose, California

	Miniumum Residential RBTC	Maximum Detected Concentration (mg/m^3)	
		Parcel O-1	Parcel O-2
Volatile Organic Compounds (VOCs)			
Benzene	2	0.14	0.47
Chloroform	8.9	0.11	----
1,1-Dichloroethane	42	4.6	----
1,1-Dichloroethene (Ethylene dichloride)	970	8.7	5.9
cis-1,2-Dichloroethene	540	1	----
Ethylbenzene	32000	----	0.2
Freon 113 (Trichlorotrifluoroethane)	490000	8.5	0.33
Tetrachloroethene	12	0.93	----
Toluene	4100	0.73	2.3
1,1,1-Trichloroethane (Methyl chloroform)	16000	12	2.8
Trichloroethene	33	10	24
m,p-Xylene	11000	0.19	0.76
o-Xylene	9400	----	0.18
Total Petroleum Hydrocarbons (TPH)			
Total Volatile Hydrocarbons (TVH)	730	22	42

Notes:
mg/m^3 = milligram per cubic meter
---- = chemical not detected in this area

TABLE 5.8
Analytical Results Above Residential Risk-Based Target Concentrations (RBTCs) for Soil Gas
Hitachi Global Storage Technologies, Inc.
San Jose, California

Parcel	Area	Sample	Depth (feet bgs)	Chemical	Concentration (mg/m^3)	Lowest Residential RBTC (mg/m^3)
O-1	Near Monitoring Well RA-24	SG-DD-02	5	Trichloroethene	3.9	3.8
O-1	Near Monitoring Well RA-24	SJ-SG-3	5	Trichloroethene	5.1	3.79
O-1	Near Monitoring Well RA-24	SJ-SG-5	5	Benzene	0.28	0.24
O-1	Near Monitoring Well RA-24	SJ-SG-17	5	Benzene	0.31	0.2
O-2	Beneath Building 026 Footprint	B026-C3	5	Benzene	0.94	0.24
O-2	Near Monitoring Well A-30	SG-26-3	5	Trichloroethene	7.1	3.8
O-2	Near Monitoring Well A-30	SG-26-5	5	Trichloroethene	13	3.8
O-2	Near Monitoring Well A-30	SG-26-6	5	Trichloroethene	13	3.8
O-2	Near Monitoring Well A-30	SG-26-8	5	Trichloroethene	21	3.8
O-2	Near Monitoring Well A-30	SJ-SG-26	5	Trichloroethene	5.1	3.8
O-4	Building 028J Area	SG-028J-3	5	Chloroform	19	1.1
O-4	Building 028J Area	SG-028J-3	10	Chloroform	28	1.9
O-4	Building 028J Area	SG-028J-4	5	Chloroform	4.5	1.1
O-4	Building 028J Area	SG-028J-4	5	Chloroform	4.3	1.1
O-4	Building 028J Area	SG-028J-4	10	Chloroform	7.9	1.9
O-4	Building 028J Area	SG-028J-6	5	Chloroform	3.9	1.1
O-4	Building 028J Area	SG-028J-6	10	Chloroform	9.4	1.9
O-4	Building 028J Area	SG-028J-7	5	Chloroform	2.3	1.1
O-4	Building 028J Area	SG-028J-7	10	Chloroform	3.1	1.9
O-4	Building 028J Area	SG-028J-17	5	Chloroform	1.6	1.1
O-4	Building 028J Area	SG-028J-17	10	Chloroform	2.7	1.9
O-4	Buried Concrete Trench	SG-TR-11	5	Chloroform	24	1.1
O-4	Buried Concrete Trench	SG-TR-11	10	Chloroform	34	1.9
O-4	Buried Concrete Trench	SG-TR-12	5	Chloroform	12	1.1
O-4	Buried Concrete Trench	SG-TR-12	10	Chloroform	16	1.9

Notes:
mg/m^3 = milligram per cubic meter

TABLE 6.1
Estimated Cancer Risks and Noncancer Hazard Indices for Site-Wide Groundwater[a]
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Maximum [b,c] (mg/L)	Cancer Risk			Hazard Quotient				
			Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
			Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)										
Acetone	3 (13%)	0.0021	----	----	----	4.1E-08	1.4E-07	3.4E-07	5.0E-11	1.7E-10
Benzene	1 (3.7%)	0.00017	4.4E-10	2.3E-09	8.7E-13	7.1E-07	2.5E-06	5.8E-06	7.9E-10	2.8E-09
2-Butanone	1 (4.3%)	0.0017	----	----	----	1.9E-08	6.7E-08	1.6E-07	2.2E-11	7.8E-11
Carbon tetrachloride	1 (3.7%)	0.0012	4.5E-09	2.4E-08	8.9E-12	7.3E-06	2.6E-05	6.0E-05	8.1E-09	2.8E-08
Chloroethane	3 (11%)	0.00077	----	----	----	2.4E-08	8.3E-08	1.9E-07	2.6E-11	9.3E-11
Chloroform	14 (52%)	0.00077	3.8E-10	2.0E-09	7.6E-13	6.5E-07	2.3E-06	5.3E-06	7.2E-10	2.5E-09
Dibromofluoromethane	9 (100%)	0.0028	----	----	----	NT	NT	NT	NT	NT
1,1-Dichloroethane	15 (56%)	0.040	6.2E-09	3.3E-08	1.2E-11	2.2E-05	7.6E-05	1.8E-04	2.4E-08	8.5E-08
1,2-Dichloroethane	2 (7.4%)	0.00037	5.9E-10	3.1E-09	1.2E-12	2.0E-07	7.1E-07	1.6E-06	2.3E-10	7.9E-10
1,1-Dichloroethene (Ethylene dichloride)	16 (59%)	0.011	----	----	----	4.5E-05	1.6E-04	3.7E-04	5.0E-08	1.7E-07
cis-1,2-Dichloroethene	13 (48%)	0.0030	----	----	----	2.4E-05	8.4E-05	2.0E-04	2.7E-08	9.3E-08
trans-1,2-Dichloroethene	5 (19%)	0.00025	----	----	----	1.1E-06	3.8E-06	9.0E-06	1.2E-09	4.3E-09
Freon 12 (Dichlorodifluoromethane)	3 (11%)	0.010	----	----	----	1.8E-05	6.5E-05	1.5E-04	2.0E-08	7.2E-08
Freon 113 (Trichlorotrifluoroethane)	21 (78%)	0.15	----	----	----	2.0E-06	7.0E-06	1.6E-05	2.2E-09	7.8E-09
Isopropanol	9 (39%)	1.4	----	----	----	3.9E-06	1.4E-05	3.2E-05	5.2E-09	1.8E-08
Methyl chloride (Chloromethane)	3 (11%)	0.0022	2.5E-10	1.3E-09	5.0E-13	4.3E-06	1.5E-05	3.5E-05	4.7E-09	1.7E-08
Methylene chloride (Dichloromethane)	2 (7.4%)	0.00016	1.6E-11	8.5E-11	3.2E-14	1.1E-07	3.9E-07	9.2E-07	1.3E-10	4.4E-10
Tetrachloroethene	21 (78%)	0.0062	2.9E-09	1.6E-08	5.8E-12	3.9E-05	1.4E-04	3.2E-04	4.3E-08	1.5E-07
Toluene	7 (26%)	0.00080	----	----	----	5.9E-07	2.1E-06	4.9E-06	6.6E-10	2.3E-09
1,1,1-Trichloroethane (Methyl chloroform)	23 (85%)	0.016	----	----	----	3.8E-06	1.3E-05	3.1E-05	4.2E-09	1.5E-08
1,1,2-Trichloroethane	3 (11%)	0.00026	2.8E-10	1.5E-09	5.6E-13	3.4E-06	1.2E-05	2.8E-05	3.8E-09	1.3E-08
Trichloroethene	13 (48%)	0.12	2.0E-08	1.1E-07	4.1E-11	4.8E-05	1.7E-04	3.9E-04	5.3E-08	1.9E-07
Vinyl chloride	8 (30%)	0.0051	4.8E-08	2.5E-07	9.5E-11	1.7E-05	6.0E-05	1.4E-04	1.9E-08	6.7E-08
o-Xylene	1 (3.7%)	0.00024	----	----	----	8.7E-08	3.0E-07	7.1E-07	9.7E-11	3.4E-10
Xylenes, Total	1 (3.7%)	0.00024	----	----	----	7.5E-08	2.6E-07	6.1E-07	8.3E-11	2.9E-10
Total Petroleum Hydrocarbons (TPH)										
TPH-Diesel	5 (50%)	0.062	----	----	----	3.0E-04	1.1E-03	2.5E-03	3.4E-07	1.2E-06
TPH-Motor Oil	6 (60%)	0.50	----	----	----	NV	NV	NV	NV	NV
TPH-Shell Sol 140	3 (60%)	0.10	----	----	----	3.1E-04	1.1E-03	2.5E-03	3.4E-07	1.2E-06
		Cumulative Risk	8.4E-08	4.4E-07	1.7E-10					
					Hazard Index	8.5E-04	3.0E-03	7.0E-03	9.5E-07	3.3E-06

Notes:
mg/L = milligram per liter
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
NV = Not volatile.

Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] All receptors are assumed to be exposed to volatile chemicals migrating from 15-foot bgs groundwater to indoor or outdoor air.

[b] Includes all chemicals detected in groundwater on the Redevelopment Property from 2004-2007.

[c] The maximum concentration is the maximum concentration after averaging all samples collected between 2004 and 2007 from the same well, including duplicates.

TABLE 6.2
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-1 - Soil (Old Septic Tank Near B010)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane (Methyl chloroform	2 (50%)	0.0057	0.0070	0.0063	----	----	----	3.6E-05	2.7E-04	1.4E-03	8.7E-08	3.8E-07
				Cumulative Risk	----	----	----					
							Hazard Index	3.6E-05	2.7E-04	1.4E-03	8.7E-08	3.8E-07

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1990.

TABLE 6.3
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-1 - Soil (Current and Former Orchard Areas)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a,b] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Pesticides												
Chlordane (Technical)	1 (2.9%)	0.058	0.33	0.058	3.3E-08	1.3E-07	3.8E-08	1.4E-04	1.8E-04	1.6E-03	5.3E-05	4.7E-04
alpha-Chlordane	2 (5.7%)	0.0039	0.039	0.011	6.3E-09	2.5E-08	7.2E-09	2.7E-05	3.5E-05	3.1E-04	1.0E-05	8.9E-05
gamma-Chlordane	2 (5.7%)	0.0037	0.032	0.011	6.3E-09	2.5E-08	7.2E-09	2.7E-05	3.5E-05	3.1E-04	1.0E-05	8.9E-05
Dieldrin	2 (5.7%)	0.0024	0.010	0.010	9.3E-08	3.3E-07	9.4E-08	3.2E-04	3.8E-04	3.3E-03	1.1E-04	9.4E-04
DDD	2 (5.7%)	0.0029	0.025	0.015	1.5E-09	6.2E-09	1.8E-09	NT	NT	NT	NT	NT
DDE	24 (69%)	0.12	1.3	0.25	3.6E-08	1.5E-07	4.2E-08	NT	NT	NT	NT	NT
DDT	22 (63%)	0.053	0.67	0.11	1.6E-08	6.4E-08	1.8E-08	2.6E-04	3.4E-04	3.0E-03	9.6E-05	8.7E-04
Endrin	1 (2.9%)	0.0065	0.16	0.0057	----	----	----	3.1E-05	3.6E-05	3.1E-04	1.0E-05	8.9E-05
Toxaphene	1 (2.9%)	0.050	0.43	0.053	3.7E-08	1.3E-07	3.7E-08	NT	NT	NT	NT	NT
Metals												
Arsenic	26 (100%)	6.9	11	7.4	**2.9E-05**	**1.2E-04**	**3.4E-05**	2.9E-02	3.8E-02	3.4E-01	1.1E-02	9.8E-02
Barium	16 (100%)	160	190	160	----	----	----	9.5E-04	1.3E-03	1.1E-02	3.2E-04	3.0E-03
Chromium (III)	16 (100%)	51	110	63	----	----	----	4.1E-05	5.8E-05	5.4E-04	1.6E-05	1.5E-04
Cobalt	16 (100%)	12	16	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	16 (100%)	52	78	59	----	----	----	1.4E-03	2.0E-03	1.9E-02	5.8E-04	5.4E-03
Lead	16 (100%)	18	28	21	----	----	----	NT	NT	NT	NT	NT
Mercury	14 (88%)	0.088	0.24	0.12	----	----	----	3.9E-04	5.5E-04	5.1E-03	1.6E-04	1.5E-03
Nickel	16 (100%)	85	160	100	4.8E-09	1.0E-08	5.6E-10	5.9E-03	8.3E-03	6.7E-02	2.0E-03	1.8E-02
Vanadium	16 (100%)	33	36	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	16 (100%)	63	72	65	----	----	----	2.1E-04	3.0E-04	2.8E-03	8.5E-05	7.9E-04
				Cumulative Risk	**3.0E-05**	**1.2E-04**	**3.5E-05**					
				Cumulative Risk (w/out arsenic)	2.4E-07	8.8E-07	2.5E-07					
							Hazard Index	7.2E-02	9.8E-02	8.9E-01	2.7E-02	2.5E-01
							Hazard Index (w/out arsenic)	4.3E-02	6.0E-02	5.5E-01	1.7E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.
[b] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates).

TABLE 6.4
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-1 - Soil Gas[a] (Near Monitoring Well RA-24)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	9 (33%)	0.11	0.31	0.13	1.0E-07	5.4E-07	2.3E-10	1.7E-04	5.8E-04	1.4E-03	2.1E-07	7.3E-07
1,1-Dichloroethane	7 (26%)	0.22	1.9	0.42	1.6E-08	8.6E-08	3.6E-11	5.6E-05	2.0E-04	4.6E-04	6.9E-08	2.4E-07
1,1-Dichloroethene (Ethylene dichloride)	15 (56%)	1.1	5.0	1.6	----	----	----	1.8E-03	6.2E-03	1.5E-02	2.2E-06	7.8E-06
cis-1,2-Dichloroethene	1 (3.7%)	0.089	0.33	0.099	----	----	----	1.9E-04	6.5E-04	1.5E-03	2.3E-07	8.0E-07
Ethylbenzene	4 (15%)	0.082	0.11	0.085	----	----	----	2.8E-06	9.9E-06	2.3E-05	3.5E-09	1.2E-08
Freon 113 (Trichlorotrifluoroethane)	21 (78%)	2.3	11	3.3	----	----	----	7.5E-06	2.6E-05	6.1E-05	9.3E-09	3.3E-08
Tetrachloroethene	13 (48%)	0.20	0.77	0.27	3.7E-08	2.0E-07	8.2E-11	4.9E-04	1.7E-03	4.0E-03	6.0E-07	2.1E-06
Toluene	26 (96%)	0.39	2.1	0.58	----	----	----	1.5E-04	5.1E-04	1.2E-03	1.8E-07	6.4E-07
1,1,1-Trichloroethane (Methyl chloroform)	24 (89%)	2.2	7.1	2.9	----	----	----	2.0E-04	7.0E-04	1.6E-03	2.5E-07	8.6E-07
Trichloroethene	14 (52%)	0.80	5.1	1.3	6.5E-08	3.4E-07	1.4E-10	1.5E-04	5.3E-04	1.2E-03	1.9E-07	6.5E-07
m,p-Xylene	18 (67%)	0.15	0.39	0.18	----	----	----	1.7E-05	6.1E-05	1.4E-04	2.2E-08	7.5E-08
o-Xylene	4 (15%)	0.083	0.12	0.087	----	----	----	9.4E-06	3.3E-05	7.7E-05	1.2E-08	4.1E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	13 (62%)	10	27	13	----	----	----	1.4E-02	5.0E-02	1.2E-01	1.7E-05	6.1E-05
				Cumulative Risk	2.2E-07	**1.2E-06**	4.9E-10					
							Hazard Index	1.8E-02	6.2E-02	1.4E-01	2.1E-05	7.5E-05

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.5
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-1 - Soil Gas[a] (Near Storm Drain)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	1 (50%)	0.095	0.11	0.11	8.6E-08	4.6E-07	1.9E-10	1.4E-04	4.9E-04	1.1E-03	1.8E-07	6.2E-07
Ethylbenzene	2 (100%)	0.10	0.12	0.12	----	----	----	4.0E-06	1.4E-05	3.3E-05	4.9E-09	1.7E-08
Freon 113 (Trichlorotrifluoroethane)	1 (50%)	0.10	0.13	0.13	----	----	----	3.0E-07	1.0E-06	2.4E-06	3.7E-10	1.3E-09
Toluene	2 (100%)	0.43	0.50	0.50	----	----	----	1.3E-04	4.4E-04	1.0E-03	1.6E-07	5.5E-07
m,p-Xylene	2 (100%)	0.41	0.47	0.47	----	----	----	4.6E-05	1.6E-04	3.7E-04	5.6E-08	2.0E-07
o-Xylene	2 (100%)	0.14	0.17	0.17	----	----	----	1.8E-05	6.4E-05	1.5E-04	2.3E-08	8.1E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	2 (100%)	7.3	7.7	7.7	----	----	----	8.5E-03	3.0E-02	7.0E-02	1.0E-05	3.6E-05
				Cumulative Risk	8.6E-08	4.6E-07	1.9E-10					
							Hazard Index	8.9E-03	3.1E-02	7.2E-02	1.1E-05	3.8E-05

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.

[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.

TABLE 6.6
Summary of Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-1 - Soil and Soil Gas
Hitachi Global Storage Technologies, Inc.
San Jose, California

Media	Area	Cancer Risk			Hazard Quotient				
		Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
Soil	Old Septic Tank Near B010 [a]	----	----	----	3.6E-05	2.7E-04	1.4E-03	8.7E-08	3.8E-07
	Current and Former Orchard Areas	2.4E-07	8.8E-07	2.5E-07	4.3E-02	6.0E-02	5.5E-01	1.7E-02	1.5E-01
Soil Gas	Near Monitoring Well RA-24	2.2E-07	**1.2E-06**	4.9E-10	1.8E-02	6.2E-02	1.4E-01	2.1E-05	7.5E-05
	Near Storm Drain	8.6E-08	4.6E-07	1.9E-10	8.9E-03	3.1E-02	7.2E-02	1.1E-05	3.8E-05

Notes:

---- = No chemicals classified as carcinogens were detected in this area.

Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Area includes historical soil samples from 1990.

TABLE 6.7
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Hydrofluoric Acid Release - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Anions												
Fluoride	5 (100%)	15	38	25	----	----	----	4.1E-04	5.7E-04	5.3E-03	1.6E-04	1.5E-03
Nitrate	5 (100%)	3100	8500	5900	----	----	----	3.6E-03	5.1E-03	4.7E-02	1.4E-03	1.3E-02
				Cumulative Risk	----	----	----					
							Hazard Index	4.0E-03	5.6E-03	5.2E-02	1.6E-03	1.5E-02

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1984.

TABLE 6.8
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Chemical Penetrating Laboratory Floor - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Chromium (III)	7 (100%)	57	120	80	----	----	----	5.2E-05	7.3E-05	6.8E-04	2.1E-05	1.9E-04
Copper	7 (100%)	43	79	57	----	----	----	1.4E-03	2.0E-03	1.8E-02	5.6E-04	5.2E-03
Anions												
Fluoride	7 (100%)	0.31	0.40	0.33	----	----	----	5.4E-06	7.5E-06	7.0E-05	2.2E-06	2.0E-05
				Cumulative Risk	----	----	----					
							Hazard Index	1.5E-03	2.0E-03	1.9E-02	5.8E-04	5.4E-03

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1984.

TABLE 6.9
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Room 400 - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	8.1	8.1	8.1	----	----	----	1.6E-04	1.9E-04	1.6E-03	5.3E-05	4.5E-04
Metals												
Arsenic	1 (100%)	5.8	5.8	5.8	**2.3E-05**	**9.4E-05**	**2.7E-05**	2.3E-02	3.0E-02	2.7E-01	8.5E-03	7.7E-02
Barium	1 (100%)	87	87	87	----	----	----	5.2E-04	7.3E-04	5.9E-03	1.8E-04	1.6E-03
Chromium (III)	25 (100%)	28	60	33	----	----	----	2.2E-05	3.0E-05	2.8E-04	8.6E-06	8.0E-05
Cobalt	1 (100%)	7.8	7.8	7.8	4.1E-09	8.6E-09	4.7E-10	5.9E-04	8.2E-04	5.7E-03	1.7E-04	1.5E-03
Copper	25 (100%)	37	140	49	----	----	----	1.2E-03	1.7E-03	1.6E-02	4.8E-04	4.5E-03
Lead	1 (100%)	8.0	8.0	8.0	----	----	----	NT	NT	NT	NT	NT
Nickel	25 (100%)	76	130	86	4.2E-09	8.8E-09	4.8E-10	5.1E-03	7.1E-03	5.8E-02	1.7E-03	1.6E-02
Vanadium	1 (100%)	31	31	31	----	----	----	3.0E-02	4.2E-02	4.0E-01	1.2E-02	1.1E-01
Zinc	1 (100%)	46	46	46	----	----	----	1.5E-04	2.1E-04	2.0E-03	6.0E-05	5.6E-04
Anions												
Nitrate	9 (75%)	9.5	20	12	----	----	----	7.3E-06	1.0E-05	9.6E-05	2.9E-06	2.7E-05
				Cumulative Risk	**2.3E-05**	**9.4E-05**	**2.7E-05**					
				Cumulative Risk (w/out arsenic)	8.2E-09	1.7E-08	9.5E-10					
							Hazard Index	6.1E-02	8.3E-02	7.5E-01	2.3E-02	2.1E-01
							Hazard Index (w/out arsenic)	3.8E-02	5.3E-02	4.9E-01	1.5E-02	1.4E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1987.

TABLE 6.10
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Rooms 113C and 114A - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Chromium (III)	16 (100%)	41	85	50	----	----	----	3.3E-05	4.6E-05	4.3E-04	1.3E-05	1.2E-04
Iron	16 (100%)	34000	110000	49000	----	----	----	1.6E-01	2.2E-01	**2.1E+00**	6.4E-02	6.0E-01
Lead	16 (100%)	30	59	37	----	----	----	NT	NT	NT	NT	NT
Nickel	16 (100%)	74	170	100	4.8E-09	1.0E-08	5.6E-10	5.9E-03	8.3E-03	6.7E-02	2.0E-03	1.8E-02
Cumulative Risk					4.8E-09	1.0E-08	5.6E-10					
Cumulative Risk (w/out iron)					4.8E-09	1.0E-08	5.6E-10					
Hazard Index								1.7E-01	2.3E-01	**2.2E+00**	6.6E-02	6.2E-01
Hazard Index (w/out iron)								6.0E-03	8.4E-03	6.8E-02	2.0E-03	1.9E-02

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1987.

TABLE 6.11
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Beneath Building 026, Including Chemical Storage Room)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Acetone	1 (11%)	0.053	0.095	0.059	----	----	----	2.7E-05	8.1E-05	2.9E-04	6.4E-08	3.5E-07
Trichloroethene	2 (22%)	0.0052	0.0074	0.0058	1.4E-08	2.2E-07	1.4E-10	5.2E-05	3.0E-04	1.6E-03	7.6E-06	7.1E-05
Metals												
Arsenic	10 (91%)	4.7	7.9	5.4	**2.1E-05**	**8.8E-05**	**2.5E-05**	2.1E-02	2.8E-02	2.5E-01	7.9E-03	7.1E-02
Barium	9 (100%)	120	200	140	----	----	----	8.3E-04	1.2E-03	9.4E-03	2.8E-04	2.6E-03
Beryllium	2 (22%)	0.49	0.61	0.51	2.3E-10	4.8E-10	2.6E-11	2.9E-04	4.0E-04	3.4E-03	1.0E-04	9.4E-04
Chromium (III)	12 (100%)	61	240	110	----	----	----	7.2E-05	1.0E-04	9.4E-04	2.9E-05	2.7E-04
Cobalt	8 (89%)	8.7	12	10.0	5.2E-09	1.1E-08	6.0E-10	7.5E-04	1.1E-03	7.2E-03	2.1E-04	1.9E-03
Copper	12 (100%)	23	48	28	----	----	----	6.8E-04	9.6E-04	8.9E-03	2.7E-04	2.6E-03
Lead	13 (100%)	23	95	39	----	----	----	NT	NT	NT	NT	NT
Mercury	6 (67%)	0.059	0.095	0.071	----	----	----	2.3E-04	3.2E-04	3.0E-03	9.3E-05	8.6E-04
Molybdenum	2 (22%)	1.0	1.3	1.1	----	----	----	2.2E-04	3.0E-04	2.8E-03	8.6E-05	8.0E-04
Nickel	12 (100%)	89	270	130	6.3E-09	1.3E-08	7.2E-10	7.7E-03	1.1E-02	8.8E-02	2.6E-03	2.4E-02
Vanadium	9 (100%)	29	42	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	9 (100%)	39	54	45	----	----	----	1.5E-04	2.1E-04	1.9E-03	5.9E-05	5.5E-04
Anions												
Nitrate	4 (67%)	62	150	100	----	----	----	6.1E-05	8.6E-05	8.0E-04	2.4E-05	2.3E-04
				Cumulative Risk	**2.2E-05**	**8.8E-05**	**2.5E-05**					
				Cumulative Risk (w/out arsenic)	2.6E-08	2.4E-07	1.5E-09					
							Hazard Index	6.5E-02	8.9E-02	8.0E-01	2.5E-02	2.3E-01
							Hazard Index (w/out arsenic)	4.3E-02	6.1E-02	5.5E-01	1.7E-02	1.6E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.12
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Buried Concrete Trench)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Antimony	1 (20%)	2.0	2.4	2.1	----	----	----	5.1E-03	7.2E-03	6.7E-02	2.1E-03	1.9E-02
Arsenic	5 (100%)	5.8	7.9	6.9	**2.7E-05**	**1.1E-04**	**3.2E-05**	2.7E-02	3.5E-02	3.2E-01	1.0E-02	9.1E-02
Barium	5 (100%)	130	160	160	----	----	----	9.5E-04	1.3E-03	1.1E-02	3.2E-04	3.0E-03
Beryllium	2 (40%)	0.54	0.76	0.66	2.9E-10	6.3E-10	3.4E-11	3.7E-04	5.2E-04	4.4E-03	1.3E-04	1.2E-03
Cadmium	2 (40%)	0.92	2.3	1.6	1.3E-09	2.7E-09	1.5E-10	1.6E-03	2.3E-03	2.1E-02	6.3E-04	5.9E-03
Chromium (III)	5 (100%)	45	64	53	----	----	----	3.5E-05	4.8E-05	4.5E-04	1.4E-05	1.3E-04
Cobalt	5 (100%)	11	14	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	5 (100%)	29	35	32	----	----	----	7.8E-04	1.1E-03	1.0E-02	3.1E-04	2.9E-03
Lead	5 (100%)	7.8	8.7	8.2	----	----	----	NT	NT	NT	NT	NT
Mercury	2 (40%)	0.059	0.084	0.070	----	----	----	2.3E-04	3.2E-04	3.0E-03	9.1E-05	8.5E-04
Molybdenum	1 (20%)	1.2	2.0	1.4	----	----	----	2.7E-04	3.8E-04	3.6E-03	1.1E-04	1.0E-03
Nickel	5 (100%)	74	120	98	4.7E-09	1.0E-08	5.5E-10	5.8E-03	8.1E-03	6.6E-02	2.0E-03	1.8E-02
Silver	3 (60%)	1.4	2.2	1.9	----	----	----	3.7E-04	5.2E-04	4.9E-03	1.5E-04	1.4E-03
Vanadium	5 (100%)	28	34	32	----	----	----	3.1E-02	4.4E-02	4.1E-01	1.3E-02	1.2E-01
Zinc	5 (100%)	88	150	120	----	----	----	3.9E-04	5.5E-04	5.1E-03	1.6E-04	1.5E-03
				Cumulative Risk	**2.7E-05**	**1.1E-04**	**3.2E-05**					
				Cumulative Risk (w/out arsenic)	1.3E-08	2.8E-08	1.5E-09					
							Hazard Index	7.5E-02	1.0E-01	9.3E-01	2.9E-02	2.7E-01
							Hazard Index (w/out arsenic)	4.8E-02	6.8E-02	6.1E-01	1.9E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.13
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Former WV-02 [original] - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Trichloroethene	1 (17%)	0.0051	0.0059	0.0052	1.3E-08	2.0E-07	1.3E-10	4.7E-05	2.7E-04	1.4E-03	6.8E-06	6.4E-05
Metals												
Arsenic	6 (100%)	6.6	7.8	7.2	**2.9E-05**	**1.2E-04**	**3.3E-05**	2.8E-02	3.7E-02	3.3E-01	1.1E-02	9.5E-02
Barium	6 (100%)	160	260	210	----	----	----	1.3E-03	1.8E-03	1.4E-02	4.3E-04	3.9E-03
Beryllium	4 (67%)	0.55	0.65	0.60	2.7E-10	5.7E-10	3.1E-11	3.4E-04	4.7E-04	4.0E-03	1.2E-04	1.1E-03
Chromium (III)	6 (100%)	51	69	59	----	----	----	3.8E-05	5.4E-05	5.0E-04	1.5E-05	1.4E-04
Cobalt	6 (100%)	12	14	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	6 (100%)	29	34	31	----	----	----	7.6E-04	1.1E-03	9.9E-03	3.0E-04	2.8E-03
Lead	6 (100%)	7.9	11	9.3	----	----	----	NT	NT	NT	NT	NT
Mercury	4 (67%)	0.066	0.094	0.080	----	----	----	2.6E-04	3.7E-04	3.4E-03	1.0E-04	9.7E-04
Nickel	6 (100%)	86	110	97	4.7E-09	1.0E-08	5.4E-10	5.8E-03	8.1E-03	6.5E-02	2.0E-03	1.8E-02
Vanadium	6 (100%)	32	34	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	6 (100%)	51	56	53	----	----	----	1.7E-04	2.4E-04	2.3E-03	6.9E-05	6.5E-04
				Cumulative Risk	**2.9E-05**	**1.2E-04**	**3.3E-05**					
				Cumulative Risk (w/out arsenic)	2.5E-08	2.2E-07	1.5E-09					
							Hazard Index	7.0E-02	9.6E-02	8.7E-01	2.7E-02	2.5E-01
							Hazard Index (w/out arsenic)	4.2E-02	5.9E-02	5.3E-01	1.6E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.14
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Former Clay Pipeline - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Arsenic	6 (100%)	7.1	8.0	7.6	**3.0E-05**	**1.2E-04**	**3.5E-05**	3.0E-02	3.9E-02	3.5E-01	1.1E-02	1.0E-01
Barium	6 (100%)	160	220	190	----	----	----	1.1E-03	1.6E-03	1.3E-02	3.8E-04	3.5E-03
Beryllium	5 (83%)	0.61	0.69	0.66	2.9E-10	6.3E-10	3.4E-11	3.7E-04	5.2E-04	4.4E-03	1.3E-04	1.2E-03
Chromium (III)	6 (100%)	47	59	52	----	----	----	3.4E-05	4.7E-05	4.4E-04	1.4E-05	1.3E-04
Cobalt	6 (100%)	13	14	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	6 (100%)	33	36	34	----	----	----	8.3E-04	1.2E-03	1.1E-02	3.3E-04	3.1E-03
Lead	6 (100%)	8.0	9.9	8.8	----	----	----	NT	NT	NT	NT	NT
Mercury	6 (100%)	0.082	0.16	0.12	----	----	----	3.9E-04	5.5E-04	5.1E-03	1.6E-04	1.5E-03
Nickel	6 (100%)	79	110	92	4.4E-09	9.5E-09	5.1E-10	5.5E-03	7.6E-03	6.2E-02	1.9E-03	1.7E-02
Vanadium	6 (100%)	34	36	35	----	----	----	3.4E-02	4.8E-02	4.5E-01	1.4E-02	1.3E-01
Zinc	6 (100%)	53	62	57	----	----	----	1.9E-04	2.6E-04	2.4E-03	7.4E-05	6.9E-04
				Cumulative Risk	**3.0E-05**	**1.2E-04**	**3.5E-05**					
				Cumulative Risk (w/out arsenic)	1.2E-08	2.4E-08	1.3E-09					
							Hazard Index	7.3E-02	1.0E-01	9.1E-01	2.8E-02	2.6E-01
							Hazard Index (w/out arsenic)	4.4E-02	6.1E-02	5.5E-01	1.7E-02	1.6E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.15
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Former WV-02 [second] - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Antimony	1 (17%)	2.0	2.5	2.1	----	----	----	5.1E-03	7.2E-03	6.7E-02	2.1E-03	1.9E-02
Arsenic	6 (100%)	7.3	8.2	7.8	**3.1E-05**	**1.3E-04**	**3.6E-05**	3.1E-02	4.0E-02	3.6E-01	1.1E-02	1.0E-01
Barium	6 (100%)	190	270	220	----	----	----	1.3E-03	1.8E-03	1.5E-02	4.5E-04	4.1E-03
Beryllium	6 (100%)	0.63	0.74	0.67	3.0E-10	6.4E-10	3.4E-11	3.8E-04	5.3E-04	4.4E-03	1.3E-04	1.2E-03
Chromium (III)	6 (100%)	43	51	47	----	----	----	3.1E-05	4.3E-05	4.0E-04	1.2E-05	1.1E-04
Cobalt	6 (100%)	13	13	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	6 (100%)	31	36	34	----	----	----	8.3E-04	1.2E-03	1.1E-02	3.3E-04	3.1E-03
Lead	6 (100%)	9.1	14	11	----	----	----	NT	NT	NT	NT	NT
Mercury	4 (67%)	0.081	0.13	0.098	----	----	----	3.2E-04	4.5E-04	4.2E-03	1.3E-04	1.2E-03
Nickel	6 (100%)	68	77	71	3.4E-09	7.3E-09	4.0E-10	4.2E-03	5.9E-03	4.8E-02	1.4E-03	1.3E-02
Vanadium	6 (100%)	32	36	34	----	----	----	3.3E-02	4.7E-02	4.3E-01	1.3E-02	1.2E-01
Zinc	6 (100%)	53	61	57	----	----	----	1.9E-04	2.6E-04	2.4E-03	7.4E-05	6.9E-04
				Cumulative Risk	**3.1E-05**	**1.3E-04**	**3.6E-05**					
				Cumulative Risk (w/out arsenic)	1.0E-08	2.2E-08	1.2E-09					
							Hazard Index	7.7E-02	1.1E-01	9.6E-01	3.0E-02	2.7E-01
							Hazard Index (w/out arsenic)	4.7E-02	6.5E-02	6.0E-01	1.8E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.16
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Former WV-15 - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk: Commercial Worker, Inhalation, Ingestion, and Dermal Contact	Cancer Risk: Age Adjusted Resident, Inhalation, Ingestion, and Dermal Contact	Cancer Risk: Age Adjusted Park User, Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Commercial Worker, Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Adult Resident, Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Child Resident, Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Adult Park User, Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Child Park User, Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Acetone	1 (100%)	0.093	0.093	0.093	----	----	----	4.3E-05	1.3E-04	4.6E-04	1.0E-07	5.4E-07
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	7.9	7.9	7.9	----	----	----	1.6E-04	1.8E-04	1.5E-03	5.2E-05	4.4E-04
Metals												
Arsenic	1 (100%)	4.9	4.9	4.9	**1.9E-05**	**8.0E-05**	**2.3E-05**	1.9E-02	2.5E-02	2.3E-01	7.2E-03	6.5E-02
Barium	1 (100%)	150	150	150	----	----	----	8.9E-04	1.3E-03	1.0E-02	3.0E-04	2.8E-03
Beryllium	1 (100%)	0.51	0.51	0.51	2.3E-10	4.8E-10	2.6E-11	2.9E-04	4.0E-04	3.4E-03	1.0E-04	9.4E-04
Chromium (III)	1 (100%)	52	52	52	----	----	----	3.4E-05	4.7E-05	4.4E-04	1.4E-05	1.3E-04
Cobalt	1 (100%)	12	12	12	6.2E-09	1.3E-08	7.2E-10	9.0E-04	1.3E-03	8.7E-03	2.5E-04	2.3E-03
Copper	1 (100%)	30	30	30	----	----	----	7.3E-04	1.0E-03	9.6E-03	2.9E-04	2.7E-03
Lead	1 (100%)	9.3	9.3	9.3	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.058	0.058	0.058	----	----	----	1.9E-04	2.7E-04	2.5E-03	7.6E-05	7.1E-04
Nickel	1 (100%)	79	79	79	3.8E-09	8.1E-09	4.4E-10	4.7E-03	6.6E-03	5.3E-02	1.6E-03	1.5E-02
Vanadium	1 (100%)	30	30	30	----	----	----	2.9E-02	4.1E-02	3.8E-01	1.2E-02	1.1E-01
Zinc	1 (100%)	54	54	54	----	----	----	1.8E-04	2.5E-04	2.3E-03	7.0E-05	6.6E-04
				Cumulative Risk	**2.0E-05**	**8.0E-05**	**2.3E-05**					
				Cumulative Risk (w/out arsenic)	1.0E-08	2.2E-08	1.2E-09					
							Hazard Index	5.7E-02	7.8E-02	7.0E-01	2.2E-02	2.0E-01
							Hazard Index (w/out arsenic)	3.7E-02	5.2E-02	4.8E-01	1.5E-02	1.3E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.17
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Emergency Generator at Building 010)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (11%)	1.4	4.4	1.7	----	----	----	3.3E-05	3.9E-05	3.3E-04	1.1E-05	9.4E-05
				Cumulative Risk	----	----	----					
							Hazard Index	3.3E-05	3.9E-05	3.3E-04	1.1E-05	9.4E-05

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.18
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Building 026 Clarifier)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Trichloroethene	1 (13%)	0.0042	0.0071	0.0042	1.0E-08	1.6E-07	1.0E-10	3.8E-05	2.2E-04	1.2E-03	5.5E-06	5.1E-05
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	5 (63%)	7.0	41	21	----	----	----	4.1E-04	4.8E-04	4.1E-03	1.4E-04	1.2E-03
TPH-Motor Oil	1 (13%)	51	79	55	----	----	----	2.5E-03	2.9E-03	2.4E-02	8.2E-04	6.9E-03
Metals												
Antimony	1 (13%)	2.1	3.4	2.3	----	----	----	5.6E-03	7.9E-03	7.4E-02	2.3E-03	2.1E-02
Arsenic	8 (100%)	5.4	7.3	6.4	**2.5E-05**	**1.0E-04**	**3.0E-05**	2.5E-02	3.3E-02	3.0E-01	9.4E-03	8.5E-02
Barium	8 (100%)	130	210	170	----	----	----	1.0E-03	1.4E-03	1.1E-02	3.4E-04	3.1E-03
Beryllium	5 (63%)	0.53	0.61	0.58	2.6E-10	5.5E-10	3.0E-11	3.3E-04	4.6E-04	3.8E-03	1.2E-04	1.1E-03
Chromium (III)	8 (100%)	88	380	210	----	----	----	1.4E-04	1.9E-04	1.8E-03	5.5E-05	5.1E-04
Cobalt	8 (100%)	17	57	29	1.5E-08	3.2E-08	1.7E-09	2.2E-03	3.0E-03	2.1E-02	6.2E-04	5.5E-03
Copper	8 (100%)	25	31	28	----	----	----	6.8E-04	9.6E-04	8.9E-03	2.7E-04	2.6E-03
Lead	7 (88%)	7.4	10	8.5	----	----	----	NT	NT	NT	NT	NT
Mercury	6 (75%)	0.065	0.089	0.075	----	----	----	2.5E-04	3.4E-04	3.2E-03	9.8E-05	9.1E-04
Nickel	8 (100%)	200	1100	580	2.8E-08	6.0E-08	3.2E-09	3.4E-02	4.8E-02	3.9E-01	1.2E-02	1.1E-01
Silver	2 (25%)	1.4	3.3	2.0	----	----	----	3.9E-04	5.5E-04	5.1E-03	1.6E-04	1.5E-03
Vanadium	8 (100%)	25	32	28	----	----	----	2.7E-02	3.8E-02	3.6E-01	1.1E-02	1.0E-01
Zinc	8 (100%)	43	53	48	----	----	----	1.6E-04	2.2E-04	2.0E-03	6.3E-05	5.8E-04
				Cumulative Risk	**2.6E-05**	**1.0E-04**	**3.0E-05**					
				Cumulative Risk (w/out arsenic)	5.4E-08	2.5E-07	5.1E-09					
							Hazard Index	1.0E-01	1.4E-01	**1.2E+00**	3.7E-02	3.4E-01
							Hazard Index (w/out arsenic)	7.6E-02	1.1E-01	9.1E-01	2.8E-02	2.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.19
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil (Current and Former Orchards)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a,b] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Pesticides												
gamma-Chlordane	1 (1.4%)	0.0022	0.012	0.0022	1.3E-09	5.0E-09	1.4E-09	5.4E-06	7.0E-06	6.3E-05	2.0E-06	1.8E-05
Dieldrin	9 (13%)	0.0053	0.060	0.0079	7.3E-08	2.6E-07	7.4E-08	2.6E-04	3.0E-04	2.6E-03	8.7E-05	7.4E-04
DDD	13 (18%)	0.0052	0.035	0.0070	7.0E-10	2.9E-09	8.2E-10	NT	NT	NT	NT	NT
DDE	38 (53%)	0.059	0.60	0.086	1.2E-08	5.0E-08	1.4E-08	NT	NT	NT	NT	NT
DDT	17 (24%)	0.010	0.17	0.018	2.6E-09	1.0E-08	3.0E-09	4.2E-05	5.5E-05	5.0E-04	1.6E-05	1.4E-04
Endrin	2 (2.8%)	0.0026	0.040	0.012	----	----	----	6.5E-05	7.7E-05	6.5E-04	2.2E-05	1.9E-04
Metals												
Arsenic	26 (100%)	7.0	11	7.5	**3.0E-05**	**1.2E-04**	**3.5E-05**	2.9E-02	3.9E-02	3.5E-01	1.1E-02	9.9E-02
Barium	4 (100%)	120	150	140	----	----	----	8.3E-04	1.2E-03	9.4E-03	2.8E-04	2.6E-03
Chromium (III)	4 (100%)	87	120	110	----	----	----	7.2E-05	1.0E-04	9.4E-04	2.9E-05	2.7E-04
Cobalt	4 (100%)	17	25	22	1.1E-08	2.4E-08	1.3E-09	1.7E-03	2.3E-03	1.6E-02	4.7E-04	4.1E-03
Copper	4 (100%)	27	31	30	----	----	----	7.3E-04	1.0E-03	9.6E-03	2.9E-04	2.7E-03
Lead	4 (100%)	9.0	11	10	----	----	----	NT	NT	NT	NT	NT
Mercury	4 (100%)	0.095	0.15	0.13	----	----	----	4.2E-04	5.9E-04	5.5E-03	1.7E-04	1.6E-03
Nickel	4 (100%)	180	280	230	1.1E-08	2.4E-08	1.3E-09	1.4E-02	1.9E-02	1.5E-01	4.7E-03	4.3E-02
Vanadium	4 (100%)	30	34	32	----	----	----	3.1E-02	4.4E-02	4.1E-01	1.3E-02	1.2E-01
Zinc	4 (100%)	50	58	55	----	----	----	1.8E-04	2.5E-04	2.3E-03	7.2E-05	6.7E-04
				Cumulative Risk	**3.0E-05**	**1.2E-04**	**3.5E-05**					
				Cumulative Risk (w/out arsenic)	1.1E-07	3.8E-07	9.7E-08					
							Hazard Index	7.9E-02	1.1E-01	9.6E-01	3.0E-02	2.7E-01
							Hazard Index (w/out arsenic)	4.9E-02	6.9E-02	6.1E-01	1.9E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.
[b] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates).

TABLE 6.20
Estimated Cancer Risks and Noncancer Hazard Indices for Parcels O-1 and O-2 - Soil Gas[a] (Near Monitoring Well A-30)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	8 (35%)	0.090	0.21	0.11	8.6E-08	4.6E-07	1.9E-10	1.4E-04	4.9E-04	1.1E-03	1.8E-07	6.2E-07
1,1-Dichloroethane	2 (8.7%)	0.087	0.19	0.099	3.8E-09	2.0E-08	8.4E-12	1.3E-05	4.7E-05	1.1E-04	1.6E-08	5.7E-08
1,1-Dichloroethene (Ethylene dichloride)	6 (26%)	0.56	5.0	1.2	----	----	----	1.3E-03	4.7E-03	1.1E-02	1.7E-06	5.9E-06
cis-1,2-Dichloroethene	3 (13%)	0.091	0.25	0.11	----	----	----	2.1E-04	7.2E-04	1.7E-03	2.5E-07	8.9E-07
trans-1,2-Dichloroethene	1 (4.3%)	0.088	0.26	0.096	----	----	----	8.6E-05	3.0E-04	7.0E-04	1.1E-07	3.7E-07
Ethylbenzene	4 (17%)	0.086	0.12	0.091	----	----	----	3.0E-06	1.1E-05	2.5E-05	3.7E-09	1.3E-08
Freon 113 (Trichlorotrifluoroethane)	10 (43%)	0.15	0.38	0.18	----	----	----	4.1E-07	1.4E-06	3.3E-06	5.1E-10	1.8E-09
Toluene	22 (96%)	0.27	0.58	0.33	----	----	----	8.3E-05	2.9E-04	6.8E-04	1.0E-07	3.7E-07
1,1,1-Trichloroethane (Methyl chloroform)	14 (61%)	0.48	2.7	0.81	----	----	----	5.6E-05	1.9E-04	4.5E-04	6.9E-08	2.4E-07
Trichloroethene	8 (35%)	2.8	21	5.4	2.7E-07	**1.4E-06**	6.0E-10	6.3E-04	2.2E-03	5.1E-03	7.7E-07	2.7E-06
1,2,4-Trimethylbenzene	2 (100%)	0.17	0.20	0.20	----	----	----	2.2E-03	7.8E-03	1.8E-02	2.7E-06	9.6E-06
1,3,5-Trimethylbenzene	1 (50%)	0.041	0.044	0.044	----	----	----	4.9E-04	1.7E-03	4.0E-03	6.0E-07	2.1E-06
m,p-Xylene	14 (61%)	0.18	0.47	0.24	----	----	----	2.3E-05	8.1E-05	1.9E-04	2.9E-08	1.0E-07
o-Xylene	7 (30%)	0.091	0.15	0.10	----	----	----	1.1E-05	3.8E-05	8.9E-05	1.4E-08	4.7E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	12 (92%)	17	37	23	----	----	----	2.5E-02	8.9E-02	2.1E-01	3.1E-05	1.1E-04
				Cumulative Risk	3.6E-07	**1.9E-06**	8.0E-10					
							Hazard Index	3.1E-02	1.1E-01	2.5E-01	3.7E-05	1.3E-04

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.21
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil Gas[a] (Buried Concrete Trench)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	3 (38%)	0.045	0.15	0.087	6.8E-08	3.6E-07	1.5E-10	1.1E-04	3.9E-04	9.1E-04	1.4E-07	4.9E-07
Chloroform	1 (13%)	0.0083	0.0083	0.0083	1.4E-09	7.6E-09	3.3E-12	2.5E-06	8.6E-06	2.0E-05	3.1E-09	1.1E-08
1,1-Dichloroethane	1 (13%)	0.013	0.013	0.013	5.0E-10	2.6E-09	1.1E-12	1.7E-06	6.1E-06	1.4E-05	2.1E-09	7.5E-09
1,1-Dichloroethene (Ethylene dichloride)	1 (13%)	0.084	0.11	0.087	----	----	----	9.7E-05	3.4E-04	7.9E-04	1.2E-07	4.3E-07
cis-1,2-Dichloroethene	1 (13%)	0.0034	0.0034	0.0034	----	----	----	6.4E-06	2.2E-05	5.2E-05	7.8E-09	2.7E-08
Ethylbenzene	2 (25%)	0.023	0.12	0.037	----	----	----	1.2E-06	4.3E-06	1.0E-05	1.5E-09	5.3E-09
Freon 12 (Dichlorodifluoromethane)	1 (13%)	0.0045	0.0045	0.0045	----	----	----	1.3E-06	4.7E-06	1.1E-05	1.6E-09	5.7E-09
Freon 113 (Trichlorotrifluoroethane)	7 (88%)	8.3	27	15	----	----	----	3.4E-05	1.2E-04	2.8E-04	4.2E-08	1.5E-07
Toluene	8 (100%)	0.26	0.76	0.43	----	----	----	1.1E-04	3.8E-04	8.9E-04	1.4E-07	4.8E-07
1,1,1-Trichloroethane (Methyl chloroform)	1 (13%)	0.094	0.19	0.11	----	----	----	7.5E-06	2.6E-05	6.2E-05	9.3E-09	3.3E-08
Trichloroethene	1 (13%)	0.029	0.029	0.029	1.4E-09	7.7E-09	3.2E-12	3.4E-06	1.2E-05	2.7E-05	4.2E-09	1.5E-08
m,p-Xylene	8 (100%)	0.25	0.49	0.32	----	----	----	3.1E-05	1.1E-04	2.5E-04	3.8E-08	1.3E-07
o-Xylene	3 (38%)	0.037	0.14	0.081	----	----	----	8.8E-06	3.1E-05	7.2E-05	1.1E-08	3.8E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	5 (71%)	18	50	31	----	----	----	3.4E-02	1.2E-01	2.8E-01	4.1E-05	1.5E-04
				Cumulative Risk	7.1E-08	3.8E-07	1.6E-10					
							Hazard Index	3.5E-02	1.2E-01	2.8E-01	4.2E-05	1.5E-04

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.22
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil Gas[a] (Former WV-02 (original) - Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	4 (100%)	0.018	0.038	0.031	2.4E-08	1.3E-07	5.5E-11	4.0E-05	1.4E-04	3.2E-04	5.0E-08	1.7E-07
Chloroform	1 (25%)	0.0037	0.0039	0.0038	6.5E-10	3.5E-09	1.5E-12	1.1E-06	3.9E-06	9.2E-06	1.4E-09	5.0E-09
1,1-Dichloroethane	1 (25%)	0.0043	0.0083	0.0057	2.2E-10	1.2E-09	4.8E-13	7.7E-07	2.7E-06	6.3E-06	9.4E-10	3.3E-09
Ethylbenzene	4 (100%)	0.025	0.048	0.038	----	----	----	1.3E-06	4.4E-06	1.0E-05	1.6E-09	5.4E-09
Freon 11 (Trichlorofluoromethane)	4 (100%)	0.059	0.12	0.093	----	----	----	1.3E-06	4.5E-06	1.0E-05	1.4E-09	5.1E-09
Freon 113 (Trichlorotrifluoroethane)	4 (100%)	27	58	45	----	----	----	1.0E-04	3.6E-04	8.4E-04	1.3E-07	4.4E-07
Tetrachloroethene	3 (75%)	0.034	0.079	0.061	8.3E-09	4.4E-08	1.8E-11	1.1E-04	3.9E-04	9.1E-04	1.4E-07	4.8E-07
Toluene	4 (100%)	0.11	0.21	0.17	----	----	----	4.3E-05	1.5E-04	3.5E-04	5.4E-08	1.9E-07
1,1,1-Trichloroethane (Methyl chloroform)	3 (75%)	0.26	0.59	0.43	----	----	----	2.9E-05	1.0E-04	2.4E-04	3.6E-08	1.3E-07
Trichloroethene	2 (50%)	0.071	0.23	0.17	8.4E-09	4.5E-08	1.9E-11	2.0E-05	6.9E-05	1.6E-04	2.4E-08	8.5E-08
1,2,4-Trimethylbenzene	4 (100%)	0.028	0.059	0.047	----	----	----	5.2E-04	1.8E-03	4.3E-03	6.5E-07	2.3E-06
1,3,5-Trimethylbenzene	3 (75%)	0.0088	0.019	0.016	----	----	----	1.8E-04	6.2E-04	1.5E-03	2.2E-07	7.7E-07
m,p-Xylene	4 (100%)	0.10	0.19	0.15	----	----	----	1.5E-05	5.1E-05	1.2E-04	1.8E-08	6.3E-08
o-Xylene	4 (100%)	0.036	0.072	0.058	----	----	----	6.3E-06	2.2E-05	5.1E-05	7.9E-09	2.8E-08
				Cumulative Risk	4.2E-08	2.2E-07	9.4E-11					
							Hazard Index	1.1E-03	3.8E-03	8.8E-03	1.3E-06	4.6E-06

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.23
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil Gas[a] (Beneath Building 026 Footprint)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	28 (100%)	0.088	0.94	0.19	1.5E-07	7.9E-07	3.3E-10	2.4E-04	8.5E-04	2.0E-03	3.0E-07	1.1E-06
Bromomethane (Methyl bromide)	1 (3.6%)	0.0026	0.0035	0.0026	----	----	----	3.4E-05	1.2E-04	2.8E-04	4.2E-08	1.5E-07
Carbon tetrachloride	1 (3.6%)	0.0043	0.0055	0.0043	4.5E-09	2.4E-08	1.0E-11	7.4E-06	2.6E-05	6.0E-05	9.1E-09	3.2E-08
Chloroethane	5 (18%)	0.0045	0.041	0.0083	----	----	----	1.6E-07	5.5E-07	1.3E-06	2.4E-10	8.4E-10
Chloroform	2 (7.1%)	0.0033	0.0045	0.0035	6.0E-10	3.2E-09	1.4E-12	1.0E-06	3.6E-06	8.5E-06	1.3E-09	4.6E-09
1,1-Dichloroethane	10 (36%)	0.013	0.079	0.021	8.0E-10	4.3E-09	1.8E-12	2.8E-06	9.9E-06	2.3E-05	3.5E-09	1.2E-08
1,1-Dichloroethene (Ethylene dichloride)	4 (14%)	0.0034	0.0091	0.0042	----	----	----	4.7E-06	1.6E-05	3.8E-05	5.9E-09	2.1E-08
cis-1,2-Dichloroethene	1 (3.6%)	0.0027	0.0045	0.0027	----	----	----	5.0E-06	1.8E-05	4.1E-05	6.2E-09	2.2E-08
Ethylbenzene	25 (89%)	0.038	0.21	0.058	----	----	----	1.9E-06	6.7E-06	1.6E-05	2.4E-09	8.3E-09
Freon 11 (Trichlorofluoromethane)	15 (54%)	6.1	120	20	----	----	----	2.8E-04	9.7E-04	2.3E-03	3.1E-07	1.1E-06
Freon 12 (Dichlorodifluoromethane)	2 (7.1%)	0.0036	0.0069	0.0040	----	----	----	1.2E-06	4.2E-06	9.7E-06	1.4E-09	5.1E-09
Freon 113 (Trichlorotrifluoroethane)	26 (93%)	14	120	28	----	----	----	6.4E-05	2.2E-04	5.2E-04	7.9E-08	2.8E-07
Methyl chloride (Chloromethane)	9 (32%)	0.0017	0.0029	0.0018	1.2E-10	6.4E-10	2.9E-13	2.1E-06	7.2E-06	1.7E-05	2.7E-09	9.5E-09
Methylene chloride (Dichloromethane)	2 (7.1%)	0.048	0.049	0.049	1.5E-09	8.1E-09	3.5E-12	1.1E-05	3.7E-05	8.7E-05	1.4E-08	4.7E-08
Tetrachloroethene	4 (14%)	0.0077	0.078	0.016	2.2E-09	1.2E-08	4.8E-12	2.9E-05	1.0E-04	2.4E-04	3.6E-08	1.3E-07
Toluene	28 (100%)	0.20	1.1	0.30	----	----	----	7.6E-05	2.7E-04	6.2E-04	9.5E-08	3.3E-07
1,1,1-Trichloroethane (Methyl chloroform)	19 (68%)	0.11	0.65	0.18	----	----	----	1.2E-05	4.3E-05	1.0E-04	1.5E-08	5.3E-08
Trichloroethene	11 (39%)	0.064	0.53	0.12	6.0E-09	3.2E-08	1.3E-11	1.4E-05	4.9E-05	1.1E-04	1.7E-08	6.0E-08
1,2,4-Trimethylbenzene	24 (86%)	0.041	0.29	0.070	----	----	----	7.8E-04	2.7E-03	6.4E-03	9.6E-07	3.4E-06
1,3,5-Trimethylbenzene	24 (86%)	0.012	0.077	0.019	----	----	----	2.1E-04	7.4E-04	1.7E-03	2.6E-07	9.1E-07
m,p-Xylene	28 (100%)	0.15	0.90	0.25	----	----	----	2.4E-05	8.5E-05	2.0E-04	3.0E-08	1.0E-07
o-Xylene	27 (96%)	0.051	0.30	0.079	----	----	----	8.6E-06	3.0E-05	7.0E-05	1.1E-08	3.8E-08
				Cumulative Risk	1.6E-07	8.7E-07	3.7E-10					
							Hazard Index	1.8E-03	6.3E-03	1.5E-02	2.2E-06	7.7E-06

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates).

TABLE 6.24
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Groundwater[a] (Near Building 026)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%)	Mean (mg/L)	Maximum (mg/L)	EPC (mg/L)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Freon 113 (Trichlorotrifluoroethane)	2 (100%)	0.0060	0.0067	0.0067	----	----	----	8.9E-08	3.1E-07	7.3E-07	9.9E-11	3.5E-10
1,1,1-Trichloroethane (Methyl chloroform)	1 (50%)	0.00072	0.00093	0.00093	----	----	----	2.2E-07	7.7E-07	1.8E-06	2.4E-10	8.5E-10
Trichloroethene	1 (50%)	0.017	0.033	0.033	5.6E-09	3.0E-08	1.1E-11	1.3E-05	4.6E-05	1.1E-04	1.5E-08	5.1E-08
				Cumulative Risk	5.6E-09	3.0E-08	1.1E-11					
							Hazard Index	1.3E-05	4.7E-05	1.1E-04	1.5E-08	5.2E-08

Notes:
mg/L = milligram per liter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] All receptors are assumed to be exposed to volatile chemicals migrating from 15-foot bgs groundwater to indoor or outdoor air.

TABLE 6.25
Summary of Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-2 - Soil[a], Soil Gas, and Groundwater
Hitachi Global Storage Technologies, Inc.
San Jose, California

Media	Area	Cancer Risk			Hazard Quotient				
		Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
Soil	Hydrofluoric Acid Release - Building 026 [b]	----	----	----	4.0E-03	5.6E-03	5.2E-02	1.6E-03	1.5E-02
Soil	Chemical Penetrating Laboratory Floor - Building 026 [b]	----	----	----	1.5E-03	2.0E-03	1.9E-02	5.8E-04	5.4E-03
Soil	Room 400 - Building 026 [b,c]	8.2E-09	1.7E-08	9.5E-10	3.8E-02	5.3E-02	4.9E-01	1.5E-02	1.4E-01
Soil	Rooms 113C and 114A - Building 026 [b,d]	4.8E-09	1.0E-08	5.6E-10	6.0E-03	8.4E-03	6.8E-02	2.0E-03	1.9E-02
Soil	Beneath Building 026, Including Chemical Storage Room [b,c]	2.6E-08	2.4E-07	1.5E-09	4.3E-02	6.1E-02	5.5E-01	1.7E-02	1.6E-01
Soil	Buried Concrete Trench	1.3E-08	2.8E-08	1.5E-09	4.8E-02	6.8E-02	6.1E-01	1.9E-02	1.7E-01
Soil	Former WV-02 (original) - Building 026	2.5E-08	2.2E-07	1.5E-09	4.2E-02	5.9E-02	5.3E-01	1.6E-02	1.5E-01
Soil	Former Clay Pipeline - Building 026	1.2E-08	2.4E-08	1.3E-09	4.4E-02	6.1E-02	5.5E-01	1.7E-02	1.6E-01
Soil	Former WV-02 (second) - Building 026	1.0E-08	2.2E-08	1.2E-09	4.7E-02	6.5E-02	6.0E-01	1.8E-02	1.7E-01
Soil	Former WV-15 - Building 026	1.0E-08	2.2E-08	1.2E-09	3.7E-02	5.2E-02	4.8E-01	1.5E-02	1.3E-01
Soil	Emergency Generator at Building 010	----	----	----	3.3E-05	3.9E-05	3.3E-04	1.1E-05	9.4E-05
Soil	Building 026 Clarifier	5.4E-08	2.5E-07	5.1E-09	7.6E-02	1.1E-01	9.1E-01	2.8E-02	2.5E-01
Soil	Current and Former Orchards	1.1E-07	3.8E-07	9.7E-08	4.9E-02	6.9E-02	6.1E-01	1.9E-02	1.7E-01
Soil Gas	Near Monitoring Well A-30	3.6E-07	**1.9E-06**	8.0E-10	3.1E-02	1.1E-01	2.5E-01	3.7E-05	1.3E-04
Soil Gas	Buried Concrete Trench	7.1E-08	3.8E-07	1.6E-10	3.5E-02	1.2E-01	2.8E-01	4.2E-05	1.5E-04
Soil Gas	Former WV-02 (original) - Building 026	4.2E-08	2.2E-07	9.4E-11	1.1E-03	3.8E-03	8.8E-03	1.3E-06	4.6E-06
Soil Gas	Beneath Building 026 Footprint	1.6E-07	8.7E-07	3.7E-10	1.8E-03	6.3E-03	1.5E-02	2.2E-06	7.7E-06
Groundwater	Near Building 026	5.6E-09	3.0E-08	1.1E-11	1.3E-05	4.7E-05	1.1E-04	1.5E-08	5.2E-08

Notes:
---- = No chemicals classified as carcinogens were detected in this area.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Cancer risks and hazard indicies for soil do not include arsenic.
[b] Area includes historical soil samples collected between 1984 and 1987.
[c] VOC data from this area was not included because soil and soil gas in the area was sampled more recently.
[d] Hazard indicies for this area do not include iron.

TABLE 6.26
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-3 - Soil
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Acetone	1 (50%)	0.052	0.055	0.055	----	----	----	2.6E-05	7.5E-05	2.7E-04	6.0E-08	3.2E-07
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	68	68	68	----	----	----	1.3E-03	1.6E-03	1.3E-02	4.4E-04	3.8E-03
TPH-Motor Oil	1 (100%)	560	560	560	----	----	----	2.5E-02	2.9E-02	2.4E-01	8.3E-03	7.0E-02
Semi-Volatile Organic Compounds (SVOCs)												
Diethylphthalate	1 (100%)	0.17	0.17	0.17	----	----	----	3.5E-07	4.1E-07	3.5E-06	1.2E-07	9.9E-07
Pesticides												
DDE	5 (56%)	0.070	0.23	0.12	1.7E-08	7.0E-08	2.0E-08	NT	NT	NT	NT	NT
DDT	3 (33%)	0.016	0.048	0.028	4.0E-09	1.6E-08	4.7E-09	6.6E-05	8.6E-05	7.8E-04	2.5E-05	2.2E-04
Metals												
Arsenic	10 (91%)	6.7	8.3	7.3	**2.9E-05**	**1.2E-04**	**3.4E-05**	2.9E-02	3.8E-02	3.4E-01	1.1E-02	9.6E-02
Barium	5 (100%)	180	200	190	----	----	----	1.1E-03	1.6E-03	1.3E-02	3.8E-04	3.5E-03
Beryllium	1 (20%)	0.52	0.62	0.54	2.4E-10	5.1E-10	2.8E-11	3.0E-04	4.3E-04	3.6E-03	1.1E-04	1.0E-03
Chromium (III)	5 (100%)	40	45	42	----	----	----	2.7E-05	3.8E-05	3.6E-04	1.1E-05	1.0E-04
Cobalt	5 (100%)	11	12	11	5.7E-09	1.2E-08	6.6E-10	8.3E-04	1.2E-03	8.0E-03	2.3E-04	2.1E-03
Copper	5 (100%)	40	54	47	----	----	----	1.1E-03	1.6E-03	1.5E-02	4.6E-04	4.3E-03
Lead	5 (100%)	21	27	23	----	----	----	NT	NT	NT	NT	NT
Mercury	3 (60%)	0.076	0.12	0.097	----	----	----	3.2E-04	4.4E-04	4.1E-03	1.3E-04	1.2E-03
Nickel	5 (100%)	61	68	65	3.1E-09	6.7E-09	3.6E-10	3.9E-03	5.4E-03	4.4E-02	1.3E-03	1.2E-02
Vanadium	5 (100%)	32	34	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	5 (100%)	63	78	70	----	----	----	2.3E-04	3.2E-04	3.0E-03	9.1E-05	8.5E-04
				Cumulative Risk	**2.9E-05**	**1.2E-04**	**3.4E-05**					
				Cumulative Risk (w/out arsenic)	3.0E-08	1.1E-07	2.6E-08					
							Hazard Index	9.6E-02	1.2E-01	**1.1E+00**	3.5E-02	3.2E-01
							Hazard Index (w/out arsenic)	6.7E-02	8.7E-02	7.7E-01	2.4E-02	2.2E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.27
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Soil Beneath Building 028)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Acetone	1 (33%)	0.0023	0.0050	0.0050	----	----	----	2.3E-06	6.9E-06	2.4E-05	5.4E-09	2.9E-08
Freon 113 (Trichlorotrifluoroethane)	3 (100%)	0.0032	0.0040	0.0040	----	----	----	3.9E-07	3.6E-06	1.8E-05	8.0E-10	4.5E-09
Methylene chloride (Dichloromethane)	1 (33%)	0.020	0.058	0.058	1.3E-07	**1.2E-06**	9.4E-10	9.3E-04	4.3E-03	2.1E-02	1.5E-06	8.4E-06
				Cumulative Risk	1.3E-07	**1.2E-06**	9.4E-10					
							Hazard Index	9.3E-04	4.4E-03	2.1E-02	1.5E-06	8.5E-06

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1984.

TABLE 6.28
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Industrial Wastewater Pipe Leak and Line Removal)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Chromium (III)	25 (100%)	58	230	84	----	----	----	5.5E-05	7.7E-05	7.2E-04	2.2E-05	2.0E-04
Copper	23 (100%)	25	47	29	----	----	----	7.1E-04	9.9E-04	9.3E-03	2.8E-04	2.6E-03
Iron	23 (100%)	23000	50000	27000	----	----	----	8.8E-02	1.2E-01	**1.2E+00**	3.5E-02	3.3E-01
Nickel	23 (100%)	250	1800	460	2.2E-08	4.7E-08	2.6E-09	2.7E-02	3.8E-02	3.1E-01	9.3E-03	8.5E-02
Zinc	23 (100%)	310	1200	450	----	----	----	1.5E-03	2.1E-03	1.9E-02	5.9E-04	5.5E-03
				Cumulative Risk	2.2E-08	4.7E-08	2.6E-09					
				Cumulative Risk (w/out iron)	2.2E-08	4.7E-08	2.6E-09					
							Hazard Index	1.2E-01	1.6E-01	**1.5E+00**	4.5E-02	4.2E-01
							Hazard Index (w/out iron)	3.0E-02	4.1E-02	3.4E-01	1.0E-02	9.3E-02

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1988-1999.

TABLE 6.29
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Building 028J Area)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Chloroform	11 (19%)	0.0044	0.018	0.0050	4.7E-08	5.7E-07	3.5E-10	8.1E-05	5.3E-04	2.6E-03	3.3E-07	2.4E-06
1,1,2-Trichloroethane	1 (1.7%)	0.0037	0.0044	0.0037	3.4E-08	4.7E-07	3.5E-10	4.1E-04	3.1E-03	1.4E-02	8.7E-07	6.9E-06
Metals												
Arsenic	26 (100%)	6.1	8.4	6.5	**2.6E-05**	**1.1E-04**	**3.0E-05**	2.6E-02	3.3E-02	3.0E-01	9.5E-03	8.6E-02
Barium	26 (100%)	130	170	140	----	----	----	8.3E-04	1.2E-03	9.4E-03	2.8E-04	2.6E-03
Beryllium	8 (31%)	0.50	0.56	0.51	2.3E-10	4.8E-10	2.6E-11	2.9E-04	4.0E-04	3.4E-03	1.0E-04	9.4E-04
Chromium (III)	26 (100%)	50	190	66	----	----	----	4.3E-05	6.0E-05	5.6E-04	1.7E-05	1.6E-04
Cobalt	26 (100%)	12	42	16	8.3E-09	1.8E-08	9.6E-10	1.2E-03	1.7E-03	1.2E-02	3.4E-04	3.0E-03
Copper	26 (100%)	25	31	26	----	----	----	6.4E-04	8.9E-04	8.3E-03	2.5E-04	2.4E-03
Lead	26 (100%)	6.3	10	6.8	----	----	----	NT	NT	NT	NT	NT
Mercury	17 (65%)	0.058	0.088	0.063	----	----	----	2.1E-04	2.9E-04	2.7E-03	8.2E-05	7.7E-04
Nickel	26 (100%)	120	860	210	1.0E-08	2.2E-08	1.2E-09	1.2E-02	1.7E-02	1.4E-01	4.2E-03	3.9E-02
Vanadium	26 (100%)	28	35	30	----	----	----	2.9E-02	4.1E-02	3.8E-01	1.2E-02	1.1E-01
Zinc	26 (100%)	49	89	53	----	----	----	1.7E-04	2.4E-04	2.3E-03	6.9E-05	6.5E-04
				Cumulative Risk	**2.6E-05**	**1.1E-04**	**3.0E-05**					
				Cumulative Risk (w/out arsenic)	1.0E-07	**1.1E-06**	2.9E-09					
							Hazard Index	7.1E-02	1.0E-01	8.8E-01	2.7E-02	2.4E-01
							Hazard Index (w/out arsenic)	4.6E-02	6.7E-02	5.8E-01	1.7E-02	1.6E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.30
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Buried Concrete Trench)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Arsenic	4 (100%)	5.0	7.4	6.4	**2.5E-05**	**1.0E-04**	**3.0E-05**	2.5E-02	3.3E-02	3.0E-01	9.4E-03	8.5E-02
Barium	4 (100%)	110	160	130	----	----	----	7.7E-04	1.1E-03	8.8E-03	2.6E-04	2.4E-03
Chromium (III)	4 (100%)	140	460	350	----	----	----	2.3E-04	3.2E-04	3.0E-03	9.1E-05	8.5E-04
Cobalt	4 (100%)	18	44	35	1.8E-08	3.9E-08	2.1E-09	2.6E-03	3.7E-03	2.5E-02	7.4E-04	6.6E-03
Copper	4 (100%)	19	27	24	----	----	----	5.9E-04	8.2E-04	7.7E-03	2.3E-04	2.2E-03
Lead	4 (100%)	6.3	7.1	6.7	----	----	----	NT	NT	NT	NT	NT
Mercury	2 (50%)	0.089	0.15	0.11	----	----	----	3.6E-04	5.0E-04	4.7E-03	1.4E-04	1.3E-03
Nickel	4 (100%)	240	800	610	2.9E-08	6.3E-08	3.4E-09	3.6E-02	5.1E-02	4.1E-01	1.2E-02	1.1E-01
Silver	1 (25%)	1.1	1.5	1.2	----	----	----	2.3E-04	3.3E-04	3.1E-03	9.4E-05	8.8E-04
Vanadium	4 (100%)	24	30	27	----	----	----	2.6E-02	3.7E-02	3.5E-01	1.1E-02	9.9E-02
Zinc	4 (100%)	570	2100	1600	----	----	----	5.2E-03	7.3E-03	6.8E-02	2.1E-03	1.9E-02
				Cumulative Risk	**2.6E-05**	**1.0E-04**	**3.0E-05**					
				Cumulative Risk (w/out arsenic)	4.8E-08	1.0E-07	5.5E-09					
							Hazard Index	9.8E-02	1.3E-01	**1.2E+00**	3.6E-02	3.3E-01
							Hazard Index (w/out arsenic)	7.3E-02	1.0E-01	8.8E-01	2.7E-02	2.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.31
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Former WV-04)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Metals												
Antimony	3 (60%)	1.6	2.0	1.8	----	----	----	4.4E-03	6.2E-03	5.8E-02	1.8E-03	1.6E-02
Arsenic	1 (100%)	7.3	7.3	7.3	**2.9E-05**	**1.2E-04**	**3.4E-05**	2.9E-02	3.8E-02	3.4E-01	1.1E-02	9.6E-02
Barium	5 (100%)	140	170	160	----	----	----	9.5E-04	1.3E-03	1.1E-02	3.2E-04	3.0E-03
Beryllium	4 (80%)	0.33	0.40	0.38	1.7E-10	3.6E-10	2.0E-11	2.1E-04	3.0E-04	2.5E-03	7.6E-05	7.0E-04
Chromium (III)	5 (100%)	43	73	55	----	----	----	3.6E-05	5.0E-05	4.7E-04	1.4E-05	1.3E-04
Cobalt	5 (100%)	12	15	14	7.3E-09	1.6E-08	8.4E-10	1.1E-03	1.5E-03	1.0E-02	3.0E-04	2.6E-03
Copper	5 (100%)	38	86	64	----	----	----	1.6E-03	2.2E-03	2.0E-02	6.3E-04	5.8E-03
Lead	5 (100%)	9.2	11	10	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.081	0.081	0.081	----	----	----	2.6E-04	3.7E-04	3.5E-03	1.1E-04	9.9E-04
Nickel	5 (100%)	80	140	110	5.3E-09	1.1E-08	6.1E-10	6.5E-03	9.1E-03	7.4E-02	2.2E-03	2.0E-02
Vanadium	5 (100%)	29	34	32	----	----	----	3.1E-02	4.4E-02	4.1E-01	1.3E-02	1.2E-01
Zinc	5 (100%)	56	78	67	----	----	----	2.2E-04	3.1E-04	2.9E-03	8.7E-05	8.2E-04
				Cumulative Risk	**2.9E-05**	**1.2E-04**	**3.4E-05**					
				Cumulative Risk (w/out arsenic)	1.3E-08	2.7E-08	1.5E-09					
							Hazard Index	7.5E-02	1.0E-01	9.3E-01	2.9E-02	2.6E-01
							Hazard Index (w/out arsenic)	4.7E-02	6.5E-02	5.9E-01	1.8E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1995.

TABLE 6.32
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Former Diesel UST at Building 028)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	6 (100%)	13	26	19	----	----	----	3.7E-04	4.3E-04	3.7E-03	1.2E-04	1.0E-03
TPH-Motor Oil	1 (17%)	51	68	55	----	----	----	2.5E-03	2.9E-03	2.4E-02	8.2E-04	6.9E-03
Metals												
Arsenic	6 (100%)	5.7	6.3	5.9	**2.3E-05**	**9.6E-05**	**2.7E-05**	2.3E-02	3.0E-02	2.7E-01	8.6E-03	7.8E-02
Barium	6 (100%)	130	140	140	----	----	----	8.3E-04	1.2E-03	9.4E-03	2.8E-04	2.6E-03
Chromium (III)	6 (100%)	67	170	110	----	----	----	7.2E-05	1.0E-04	9.4E-04	2.9E-05	2.7E-04
Cobalt	6 (100%)	13	22	17	8.8E-09	1.9E-08	1.0E-09	1.3E-03	1.8E-03	1.2E-02	3.6E-04	3.2E-03
Copper	6 (100%)	26	28	27	----	----	----	6.6E-04	9.2E-04	8.6E-03	2.6E-04	2.5E-03
Lead	6 (100%)	7.6	8.7	8.2	----	----	----	NT	NT	NT	NT	NT
Mercury	4 (67%)	0.065	0.10	0.080	----	----	----	2.6E-04	3.7E-04	3.4E-03	1.0E-04	9.7E-04
Nickel	6 (100%)	130	330	220	1.1E-08	2.3E-08	1.2E-09	1.3E-02	1.8E-02	1.5E-01	4.5E-03	4.1E-02
Vanadium	6 (100%)	27	27	27	----	----	----	2.6E-02	3.7E-02	3.5E-01	1.1E-02	9.9E-02
Zinc	6 (100%)	45	47	46	----	----	----	1.5E-04	2.1E-04	2.0E-03	6.0E-05	5.6E-04
				Cumulative Risk	**2.3E-05**	**9.6E-05**	**2.7E-05**					
				Cumulative Risk (w/out arsenic)	1.9E-08	4.1E-08	2.2E-09					
							Hazard Index	6.9E-02	9.3E-02	8.3E-01	2.6E-02	2.4E-01
							Hazard Index (w/out arsenic)	4.6E-02	6.3E-02	5.6E-01	1.7E-02	1.6E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.33
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Building 018 Pipe Backfill)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	19 (100%)	24	85	34	----	----	----	6.7E-04	7.8E-04	6.6E-03	2.2E-04	1.9E-03
TPH-Motor Oil	8 (42%)	63	160	79	----	----	----	3.6E-03	4.1E-03	3.4E-02	1.2E-03	9.8E-03
				Cumulative Risk	----	----	----					
							Hazard Index	4.3E-03	4.9E-03	4.1E-02	1.4E-03	1.2E-02

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.34
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil (Current and Former Orchards, includes near Homestead Lake)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Pesticides												
DDD	1 (3.3%)	0.0022	0.0035	0.0022	2.2E-10	9.0E-10	2.6E-10	NT	NT	NT	NT	NT
DDE	21 (70%)	0.061	0.29	0.088	1.3E-08	5.1E-08	1.5E-08	NT	NT	NT	NT	NT
DDT	9 (30%)	0.0080	0.043	0.012	1.7E-09	7.0E-09	2.0E-09	2.8E-05	3.7E-05	3.3E-04	1.1E-05	9.5E-05
Metals												
Arsenic	35 (100%)	7.2	16	8.0	**3.2E-05**	**1.3E-04**	**3.7E-05**	3.1E-02	4.1E-02	3.7E-01	1.2E-02	1.1E-01
Barium	5 (100%)	190	200	200	----	----	----	1.2E-03	1.7E-03	1.3E-02	4.0E-04	3.7E-03
Cadmium	3 (60%)	0.51	0.52	0.52	4.1E-10	8.8E-10	4.8E-11	5.3E-04	7.3E-04	6.7E-03	2.1E-04	1.9E-03
Chromium (III)	5 (100%)	51	61	54	----	----	----	3.5E-05	4.9E-05	4.6E-04	1.4E-05	1.3E-04
Cobalt	5 (100%)	13	13	13	6.8E-09	1.4E-08	7.8E-10	9.8E-04	1.4E-03	9.4E-03	2.8E-04	2.5E-03
Copper	5 (100%)	40	49	44	----	----	----	1.1E-03	1.5E-03	1.4E-02	4.3E-04	4.0E-03
Lead	5 (100%)	13	14	14	----	----	----	NT	NT	NT	NT	NT
Mercury	5 (100%)	0.10	0.12	0.11	----	----	----	3.6E-04	5.0E-04	4.7E-03	1.4E-04	1.3E-03
Nickel	5 (100%)	72	74	73	3.5E-09	7.5E-09	4.1E-10	4.3E-03	6.1E-03	4.9E-02	1.5E-03	1.4E-02
Vanadium	5 (100%)	39	40	40	----	----	----	3.9E-02	5.5E-02	5.1E-01	1.6E-02	1.5E-01
Zinc	5 (100%)	64	69	67	----	----	----	2.2E-04	3.1E-04	2.9E-03	8.7E-05	8.2E-04
				Cumulative Risk	**3.2E-05**	**1.3E-04**	**3.7E-05**					
				Cumulative Risk (w/out arsenic)	2.5E-08	8.2E-08	1.8E-08					
							Hazard Index	7.9E-02	1.1E-01	9.8E-01	3.0E-02	2.8E-01
							Hazard Index (w/out arsenic)	4.8E-02	6.7E-02	6.1E-01	1.9E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.35
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil Gas[a] (Near Core Area)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Toluene	1 (100%)	0.20	0.20	0.20	----	----	----	5.1E-05	1.8E-04	4.1E-04	6.3E-08	2.2E-07
1,2,4-Trimethylbenzene	1 (100%)	0.18	0.18	0.18	----	----	----	2.0E-03	7.0E-03	1.6E-02	2.5E-06	8.7E-06
1,3,5-Trimethylbenzene	1 (100%)	0.042	0.042	0.042	----	----	----	4.7E-04	1.6E-03	3.8E-03	5.8E-07	2.0E-06
m,p-Xylene	1 (100%)	0.20	0.20	0.20	----	----	----	1.9E-05	6.8E-05	1.6E-04	2.4E-08	8.4E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	1 (100%)	36	36	36	----	----	----	4.0E-02	1.4E-01	3.3E-01	4.8E-05	1.7E-04
				Cumulative Risk	----	----	----					
							Hazard Index	4.2E-02	1.5E-01	3.5E-01	5.1E-05	1.8E-04

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.

[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.

TABLE 6.36
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil Gas[a] (Building 028J Area)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Benzene	2 (6.7%)	0.085	0.17	0.092	7.2E-08	3.8E-07	1.6E-10	1.2E-04	4.1E-04	9.6E-04	1.5E-07	5.2E-07
Chloroform	11 (37%)	2.3	24	4.7	8.1E-07	**4.3E-06**	1.9E-09	1.4E-03	4.9E-03	1.1E-02	1.8E-06	6.2E-06
1,1-Dichloroethene (Ethylene dichloride)	5 (17%)	0.13	0.89	0.22	----	----	----	2.4E-04	8.6E-04	2.0E-03	3.1E-07	1.1E-06
Freon 11 (Trichlorofluoromethane)	1 (3.3%)	0.090	0.38	0.10	----	----	----	1.4E-06	4.8E-06	1.1E-05	1.6E-09	5.4E-09
Freon 12 (Dichlorodifluoromethane)	1 (3.3%)	0.20	3.8	0.33	----	----	----	9.8E-05	3.4E-04	8.0E-04	1.2E-07	4.2E-07
Freon 113 (Trichlorotrifluoroethane)	13 (43%)	0.18	0.57	0.24	----	----	----	5.5E-07	1.9E-06	4.5E-06	6.8E-10	2.4E-09
Methyl chloride (Chloromethane)	1 (50%)	0.0023	0.0031	0.0031	2.1E-10	1.1E-09	4.9E-13	3.6E-06	1.2E-05	2.9E-05	4.7E-09	1.6E-08
Methylene chloride (Dichloromethane)	1 (3.3%)	0.082	0.14	0.084	2.6E-09	1.4E-08	6.0E-12	1.8E-05	6.4E-05	1.5E-04	2.3E-08	8.1E-08
Toluene	16 (53%)	0.23	1.2	0.33	----	----	----	8.3E-05	2.9E-04	6.8E-04	1.0E-07	3.7E-07
1,1,1-Trichloroethane (Methyl chloroform)	10 (33%)	0.18	1.1	0.28	----	----	----	1.9E-05	6.7E-05	1.6E-04	2.4E-08	8.3E-08
Trichloroethene	5 (17%)	0.10	0.35	0.13	6.5E-09	3.4E-08	1.4E-11	1.5E-05	5.3E-05	1.2E-04	1.9E-08	6.5E-08
1,2,4-Trimethylbenzene	2 (100%)	0.23	0.37	0.37	----	----	----	4.1E-03	1.4E-02	3.4E-02	5.1E-06	1.8E-05
1,3,5-Trimethylbenzene	2 (100%)	0.070	0.12	0.12	----	----	----	1.3E-03	4.7E-03	1.1E-02	1.6E-06	5.8E-06
m,p-Xylene	12 (40%)	0.15	0.36	0.17	----	----	----	1.6E-05	5.8E-05	1.3E-04	2.0E-08	7.1E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	3 (50%)	9.6	22	15	----	----	----	1.7E-02	5.8E-02	1.4E-01	2.0E-05	7.0E-05
				Cumulative Risk	8.9E-07	**4.7E-06**	2.0E-09					
							Hazard Index	2.4E-02	8.4E-02	2.0E-01	2.9E-05	1.0E-04

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.37
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil Gas[a] (Buried Concrete Trench)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
1,1-Dichloroethene (Ethylene dichloride)	1 (20%)	0.083	0.096	0.086	----	----	----	9.6E-05	3.4E-04	7.8E-04	1.2E-07	4.2E-07
Freon 11 (Trichlorofluoromethane)	1 (20%)	0.30	1.2	0.53	----	----	----	7.3E-06	2.6E-05	6.0E-05	8.2E-09	2.9E-08
Freon 113 (Trichlorotrifluoroethane)	2 (40%)	0.11	0.20	0.15	----	----	----	3.4E-07	1.2E-06	2.8E-06	4.2E-10	1.5E-09
Toluene	3 (60%)	0.13	0.23	0.17	----	----	----	4.3E-05	1.5E-04	3.5E-04	5.4E-08	1.9E-07
m,p-Xylene	2 (40%)	0.10	0.16	0.13	----	----	----	1.3E-05	4.4E-05	1.0E-04	1.6E-08	5.4E-08
o-Xylene	4 (80%)	0.14	0.25	0.20	----	----	----	2.2E-05	7.6E-05	1.8E-04	2.7E-08	9.5E-08
				Cumulative Risk	----	----	----					
							Hazard Index	1.8E-04	6.3E-04	1.5E-03	2.3E-07	7.9E-07

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.

[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.

TABLE 6.38
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Groundwater[a] (Building 028J Area)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%)	Mean (mg/L)	Maximum [b] (mg/L)	EPC (mg/L)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Chloroform	16 (57%)	0.11	0.89	0.21	1.0E-07	5.5E-07	2.1E-10	1.8E-04	6.2E-04	1.4E-03	2.0E-07	6.9E-07
1,1-Dichloroethane	1 (3.6%)	0.00051	0.00064	0.00052	8.1E-11	4.3E-10	1.6E-13	2.8E-07	9.9E-07	2.3E-06	3.1E-10	1.1E-09
1,1-Dichloroethene (Ethylene dichloride)	4 (14%)	0.00085	0.0046	0.0013	----	----	----	5.3E-06	1.9E-05	4.3E-05	5.9E-09	2.1E-08
Toluene	2 (7.1%)	0.00056	0.00096	0.00096	----	----	----	7.1E-07	2.5E-06	5.8E-06	7.9E-10	2.8E-09
1,1,1-Trichloroethane (Methyl chloroform)	9 (32%)	0.0013	0.0086	0.0022	----	----	----	5.2E-07	1.8E-06	4.2E-06	5.8E-10	2.0E-09
Trichloroethene	1 (3.6%)	0.00076	0.0075	0.00076	1.3E-10	6.9E-10	2.6E-13	3.0E-07	1.1E-06	2.5E-06	3.4E-10	1.2E-09
Xylenes, Total	1 (3.6%)	0.0010	0.0013	0.0010	----	----	----	3.1E-07	1.1E-06	2.5E-06	3.5E-10	1.2E-09
				Cumulative Risk	1.0E-07	5.5E-07	2.1E-10					
							Hazard Index	1.8E-04	6.5E-04	1.5E-03	2.1E-07	7.2E-07

Notes:
mg/L = milligram per liter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] All receptors are assumed to be exposed to volatile chemicals migrating from 15-foot bgs groundwater to indoor or outdoor air.

[b] The maximum concentration is the maximum concentration after averaging samples from the same well (e.g. duplicates)

TABLE 6.39
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Groundwater[a] (Freight Elevator at Building 028)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%)	Mean (mg/L)	Maximum (mg/L)	EPC (mg/L)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	7 (88%)	0.54	2.3	1.2	----	----	----	5.9E-03	2.1E-02	4.8E-02	6.5E-06	2.3E-05
TPH-Motor Oil	2 (25%)	0.88	3.5	1.6	----	----	----	NV	NV	NV	NV	NV
				Cumulative Risk	----	----	----					
							Hazard Index	5.9E-03	2.1E-02	4.8E-02	6.5E-06	2.3E-05

Notes:
mg/L = milligram per liter
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.

[a] All receptors are assumed to be exposed to volatile chemicals migrating from 15-foot bgs groundwater to indoor or outdoor air.

TABLE 6.40
Summary of Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-4 - Soil[a], Soil Gas, and Groundwater
Hitachi Global Storage Technologies, Inc.
San Jose, California

Media	Area	Cancer Risk			Hazard Quotient				
		Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
Soil	Soil Beneath Building 028 [b]	1.3E-07	**1.2E-06**	9.4E-10	9.3E-04	4.4E-03	2.1E-02	1.5E-06	8.5E-06
Soil	Industrial Wastewater Pipe Leak and Line Removal [c,d]	2.2E-08	4.7E-08	2.6E-09	3.0E-02	4.1E-02	3.4E-01	1.0E-02	9.3E-02
Soil	Building 028J Area	1.0E-07	**1.1E-06**	2.9E-09	4.6E-02	6.7E-02	5.8E-01	1.7E-02	1.6E-01
Soil	Buried Concrete Trench	4.8E-08	1.0E-07	5.5E-09	7.3E-02	1.0E-01	8.8E-01	2.7E-02	2.5E-01
Soil	Former WV-04 [e]	1.3E-08	2.7E-08	1.5E-09	4.7E-02	6.5E-02	5.9E-01	1.8E-02	1.7E-01
Soil	Former Diesel UST at Building 028	1.9E-08	4.1E-08	2.2E-09	4.6E-02	6.3E-02	5.6E-01	1.7E-02	1.6E-01
Soil	Building 018 Pipe Backfill	----	----	----	4.3E-03	4.9E-03	4.1E-02	1.4E-03	1.2E-02
Soil	Current and Former Orchards, includes near Homestead Lake	2.5E-08	8.2E-08	1.8E-08	4.8E-02	6.7E-02	6.1E-01	1.9E-02	1.7E-01
Soil Gas	Near Core Area	----	----	----	4.2E-02	1.5E-01	3.5E-01	5.1E-05	1.8E-04
Soil Gas	Building 028J Area	8.9E-07	**4.7E-06**	2.0E-09	2.4E-02	8.4E-02	2.0E-01	2.9E-05	1.0E-04
Soil Gas	Buried Concrete Trench	----	----	----	1.8E-04	6.3E-04	1.5E-03	2.3E-07	7.9E-07
Groundwater	Building 028J Area	1.0E-07	5.5E-07	2.1E-10	1.8E-04	6.5E-04	1.5E-03	2.1E-07	7.2E-07
Groundwater	Freight Elevator at Building 028	----	----	----	5.9E-03	2.1E-02	4.8E-02	6.5E-06	2.3E-05

Notes:
---- = No chemicals classified as carcinogens were detected in this area.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Cancer risks and hazard indicies for soil do not include arsenic.
[b] Area includes historical soil samples collected in 1984.
[c] Area includes historical soil samples collected 1988-1999.
[d] Hazard indicies for this area do not include iron.
[e] Area includes historical soil samples collected in 1995.

TABLE 6.41
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Electrical Substation)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a,b] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	17 (44%)	9.9	300	33	----	----	----	6.5E-04	7.5E-04	6.4E-03	2.2E-04	1.8E-03
				Cumulative Risk	----	----	----					
							Hazard Index	6.5E-04	7.5E-04	6.4E-03	2.2E-04	1.8E-03

mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities, including historical samples from 1984-1990.
[b] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates).

TABLE 6.42
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Soil in Raleigh Road)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	20	20	20	----	----	----	3.9E-04	4.6E-04	3.9E-03	1.3E-04	1.1E-03
TPH-Motor Oil	1 (100%)	69	69	69	----	----	----	3.1E-03	3.6E-03	3.0E-02	1.0E-03	8.6E-03
Metals												
Arsenic	1 (100%)	6.5	6.5	6.5	**2.6E-05**	**1.1E-04**	**3.0E-05**	2.6E-02	3.3E-02	3.0E-01	9.5E-03	8.6E-02
Barium	1 (100%)	170	170	170	----	----	----	1.0E-03	1.4E-03	1.1E-02	3.4E-04	3.1E-03
Beryllium	1 (100%)	0.77	0.77	0.77	3.4E-10	7.3E-10	4.0E-11	4.3E-04	6.1E-04	5.1E-03	1.5E-04	1.4E-03
Chromium (III)	1 (100%)	44	44	44	----	----	----	2.9E-05	4.0E-05	3.8E-04	1.1E-05	1.1E-04
Cobalt	1 (100%)	12	12	12	6.2E-09	1.3E-08	7.2E-10	9.0E-04	1.3E-03	8.7E-03	2.5E-04	2.3E-03
Copper	1 (100%)	31	31	31	----	----	----	7.6E-04	1.1E-03	9.9E-03	3.0E-04	2.8E-03
Lead	1 (100%)	11	11	11	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.093	0.093	0.093	----	----	----	3.0E-04	4.3E-04	4.0E-03	1.2E-04	1.1E-03
Nickel	1 (100%)	66	66	66	3.2E-09	6.8E-09	3.7E-10	3.9E-03	5.5E-03	4.4E-02	1.3E-03	1.2E-02
Vanadium	1 (100%)	33	33	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	1 (100%)	53	53	53	----	----	----	1.7E-04	2.4E-04	2.3E-03	6.9E-05	6.5E-04
				Cumulative Risk	**2.6E-05**	**1.1E-04**	**3.0E-05**					
				Cumulative Risk (w/out arsenic)	9.8E-09	2.1E-08	1.1E-09					
							Hazard Index	6.9E-02	9.3E-02	8.4E-01	2.6E-02	2.4E-01
							Hazard Index (w/out arsenic)	4.3E-02	6.0E-02	5.4E-01	1.7E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.43
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Passenger Elevator Pit - Building 051)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	2.3	2.3	2.3	----	----	----	4.5E-05	5.3E-05	4.4E-04	1.5E-05	1.3E-04
Metals												
Arsenic	1 (100%)	7.0	7.0	7.0	**2.8E-05**	**1.1E-04**	**3.3E-05**	2.7E-02	3.6E-02	3.2E-01	1.0E-02	9.2E-02
Barium	1 (100%)	150	150	150	----	----	----	8.9E-04	1.3E-03	1.0E-02	3.0E-04	2.8E-03
Beryllium	1 (100%)	0.52	0.52	0.52	2.3E-10	4.9E-10	2.7E-11	2.9E-04	4.1E-04	3.5E-03	1.0E-04	9.6E-04
Chromium (III)	1 (100%)	42	42	42	----	----	----	2.7E-05	3.8E-05	3.6E-04	1.1E-05	1.0E-04
Cobalt	1 (100%)	11	11	11	5.7E-09	1.2E-08	6.6E-10	8.3E-04	1.2E-03	8.0E-03	2.3E-04	2.1E-03
Copper	1 (100%)	32	32	32	----	----	----	7.8E-04	1.1E-03	1.0E-02	3.1E-04	2.9E-03
Lead	1 (100%)	17	17	17	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.060	0.060	0.060	----	----	----	2.0E-04	2.7E-04	2.6E-03	7.8E-05	7.3E-04
Nickel	1 (100%)	63	63	63	3.0E-09	6.5E-09	3.5E-10	3.7E-03	5.2E-03	4.2E-02	1.3E-03	1.2E-02
Vanadium	1 (100%)	34	34	34	----	----	----	3.3E-02	4.7E-02	4.3E-01	1.3E-02	1.2E-01
Zinc	1 (100%)	56	56	56	----	----	----	1.8E-04	2.6E-04	2.4E-03	7.3E-05	6.8E-04
				Cumulative Risk	**2.8E-05**	**1.1E-04**	**3.3E-05**					
				Cumulative Risk (w/out arsenic)	9.0E-09	1.9E-08	1.0E-09					
							Hazard Index	6.8E-02	9.2E-02	8.4E-01	2.6E-02	2.4E-01
							Hazard Index (w/out arsenic)	4.0E-02	5.6E-02	5.1E-01	1.6E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.44
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Loading Dock Elevator - Building 051)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	3.3	3.3	3.3	----	----	----	6.5E-05	7.5E-05	6.4E-04	2.2E-05	1.8E-04
Metals												
Arsenic	1 (100%)	6.6	6.6	6.6	**2.6E-05**	**1.1E-04**	**3.1E-05**	2.6E-02	3.4E-02	3.1E-01	9.6E-03	8.7E-02
Barium	1 (100%)	160	160	160	----	----	----	9.5E-04	1.3E-03	1.1E-02	3.2E-04	3.0E-03
Beryllium	1 (100%)	0.50	0.50	0.50	2.2E-10	4.7E-10	2.6E-11	2.8E-04	3.9E-04	3.3E-03	1.0E-04	9.2E-04
Chromium (III)	1 (100%)	56	56	56	----	----	----	3.7E-05	5.1E-05	4.8E-04	1.5E-05	1.4E-04
Cobalt	1 (100%)	12	12	12	6.2E-09	1.3E-08	7.2E-10	9.0E-04	1.3E-03	8.7E-03	2.5E-04	2.3E-03
Copper	1 (100%)	31	31	31	----	----	----	7.6E-04	1.1E-03	9.9E-03	3.0E-04	2.8E-03
Lead	1 (100%)	16	16	16	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.060	0.060	0.060	----	----	----	2.0E-04	2.7E-04	2.6E-03	7.8E-05	7.3E-04
Nickel	1 (100%)	77	77	77	3.7E-09	7.9E-09	4.3E-10	4.6E-03	6.4E-03	5.2E-02	1.6E-03	1.4E-02
Vanadium	1 (100%)	33	33	33	----	----	----	3.2E-02	4.5E-02	4.2E-01	1.3E-02	1.2E-01
Zinc	1 (100%)	53	53	53	----	----	----	1.7E-04	2.4E-04	2.3E-03	6.9E-05	6.5E-04
				Cumulative Risk	**2.6E-05**	**1.1E-04**	**3.1E-05**					
				Cumulative Risk (w/out arsenic)	1.0E-08	2.2E-08	1.2E-09					
							Hazard Index	6.6E-02	9.0E-02	8.2E-01	2.5E-02	2.3E-01
							Hazard Index (w/out arsenic)	4.0E-02	5.6E-02	5.1E-01	1.6E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.45
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Parking Lot - Building 051)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Volatile Organic Compounds (VOCs)												
Acetone	1 (100%)	0.11	0.11	0.11	----	----	----	5.1E-05	1.5E-04	5.4E-04	1.2E-07	6.4E-07
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	1 (100%)	2.6	2.6	2.6	----	----	----	5.1E-05	5.9E-05	5.0E-04	1.7E-05	1.4E-04
Metals												
Arsenic	1 (100%)	6.9	6.9	6.9	**2.7E-05**	**1.1E-04**	**3.2E-05**	2.7E-02	3.5E-02	3.2E-01	1.0E-02	9.1E-02
Barium	1 (100%)	150	150	150	----	----	----	8.9E-04	1.3E-03	1.0E-02	3.0E-04	2.8E-03
Chromium (III)	1 (100%)	97	97	97	----	----	----	6.3E-05	8.9E-05	8.3E-04	2.5E-05	2.4E-04
Cobalt	1 (100%)	16	16	16	8.3E-09	1.8E-08	9.6E-10	1.2E-03	1.7E-03	1.2E-02	3.4E-04	3.0E-03
Copper	1 (100%)	29	29	29	----	----	----	7.1E-04	9.9E-04	9.3E-03	2.8E-04	2.6E-03
Lead	1 (100%)	18	18	18	----	----	----	NT	NT	NT	NT	NT
Mercury	1 (100%)	0.064	0.064	0.064	----	----	----	2.1E-04	2.9E-04	2.7E-03	8.4E-05	7.8E-04
Nickel	1 (100%)	160	160	160	7.7E-09	1.6E-08	8.9E-10	9.5E-03	1.3E-02	1.1E-01	3.2E-03	3.0E-02
Vanadium	1 (100%)	31	31	31	----	----	----	3.0E-02	4.2E-02	4.0E-01	1.2E-02	1.1E-01
Zinc	1 (100%)	49	49	49	----	----	----	1.6E-04	2.2E-04	2.1E-03	6.4E-05	6.0E-04
				Cumulative Risk	**2.7E-05**	**1.1E-04**	**3.2E-05**					
				Cumulative Risk (w/out arsenic)	1.6E-08	3.4E-08	1.9E-09					
							Hazard Index	7.0E-02	9.6E-02	8.6E-01	2.7E-02	2.4E-01
							Hazard Index (w/out arsenic)	4.3E-02	6.0E-02	5.4E-01	1.6E-02	1.5E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.

TABLE 6.46
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil (Current and Former Orchards)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a,b] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact	Inhalation, Ingestion, and Dermal Contact
Pesticides												
gamma-Chlordane	1 (1.8%)	0.0022	0.013	0.0022	1.3E-09	5.0E-09	1.4E-09	5.4E-06	7.0E-06	6.3E-05	2.0E-06	1.8E-05
Dieldrin	5 (8.8%)	0.0073	0.21	0.019	1.8E-07	6.3E-07	1.8E-07	6.2E-04	7.3E-04	6.2E-03	2.1E-04	1.8E-03
DDE	45 (79%)	0.11	0.38	0.13	1.9E-08	7.6E-08	2.2E-08	NT	NT	NT	NT	NT
DDT	36 (63%)	0.016	0.072	0.019	2.7E-09	1.1E-08	3.2E-09	4.5E-05	5.8E-05	5.3E-04	1.7E-05	1.5E-04
Endosulfan I	1 (1.8%)	0.0042	0.13	0.13	----	----	----	3.5E-05	4.2E-05	3.5E-04	1.2E-05	1.0E-04
Endrin	1 (1.8%)	0.0020	0.0026	0.0021	----	----	----	1.1E-05	1.3E-05	1.1E-04	3.8E-06	3.3E-05
Metals												
Arsenic	57 (100%)	7.6	22	8.4	**3.3E-05**	**1.4E-04**	**3.9E-05**	3.3E-02	4.3E-02	3.9E-01	1.2E-02	1.1E-01
Barium	34 (100%)	170	200	180	----	----	----	1.1E-03	1.5E-03	1.2E-02	3.6E-04	3.3E-03
Cadmium	3 (8.8%)	0.50	0.53	0.50	4.0E-10	8.5E-10	4.6E-11	5.1E-04	7.1E-04	6.5E-03	2.0E-04	1.8E-03
Chromium (III)	34 (100%)	61	210	77	----	----	----	5.0E-05	7.0E-05	6.6E-04	2.0E-05	1.9E-04
Cobalt	34 (100%)	13	25	14	7.3E-09	1.6E-08	8.4E-10	1.1E-03	1.5E-03	1.0E-02	3.0E-04	2.6E-03
Copper	34 (100%)	33	41	34	----	----	----	8.3E-04	1.2E-03	1.1E-02	3.3E-04	3.1E-03
Lead	34 (100%)	15	23	17	----	----	----	NT	NT	NT	NT	NT
Mercury	34 (100%)	0.098	0.21	0.11	----	----	----	3.6E-04	5.0E-04	4.7E-03	1.4E-04	1.3E-03
Nickel	34 (100%)	100	410	130	6.3E-09	1.3E-08	7.2E-10	7.7E-03	1.1E-02	8.8E-02	2.6E-03	2.4E-02
Vanadium	34 (100%)	36	41	37	----	----	----	3.6E-02	5.1E-02	4.7E-01	1.4E-02	1.4E-01
Zinc	34 (100%)	59	82	61	----	----	----	2.0E-04	2.8E-04	2.6E-03	8.0E-05	7.4E-04
				Cumulative Risk	**3.4E-05**	**1.4E-04**	**3.9E-05**					
				Cumulative Risk (w/out arsenic)	2.1E-07	7.5E-07	2.1E-07					
							Hazard Index	8.2E-02	1.1E-01	**1.0E+00**	3.1E-02	2.9E-01
							Hazard Index (w/out arsenic)	4.9E-02	6.8E-02	6.2E-01	1.9E-02	1.7E-01

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.
[b] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates).

TABLE 6.47
Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil Gas[a] (Due Diligence Sampling)
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [b]	Mean [b] (mg/m^3)	Maximum [b,c] (mg/m^3)	EPC [b] (mg/m^3)	Cancer Risk			Hazard Quotient				
					Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
					Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Indoor Air	Inhalation of Vapors in Outdoor Air	Inhalation of Vapors in Outdoor Air
Volatile Organic Compounds (VOCs)												
Ethylbenzene	3 (50%)	0.090	0.12	0.10	----	----	----	3.3E-06	1.2E-05	2.7E-05	4.1E-09	1.4E-08
Freon 114 (Dichlorotetrafluoroethane)	1 (100%)	0.66	0.66	0.66	----	----	----	9.1E-07	3.2E-06	7.4E-06	1.1E-09	3.8E-09
Toluene	6 (100%)	0.28	0.42	0.34	----	----	----	8.6E-05	3.0E-04	7.0E-04	1.1E-07	3.8E-07
1,2,4-Trimethylbenzene	1 (100%)	0.17	0.17	0.17	----	----	----	1.9E-03	6.6E-03	1.5E-02	2.3E-06	8.2E-06
1,3,5-Trimethylbenzene	1 (100%)	0.038	0.038	0.038	----	----	----	4.2E-04	1.5E-03	3.5E-03	5.2E-07	1.8E-06
m,p-Xylene	6 (100%)	0.30	0.46	0.38	----	----	----	3.7E-05	1.3E-04	3.0E-04	4.5E-08	1.6E-07
o-Xylene	3 (50%)	0.11	0.15	0.13	----	----	----	1.4E-05	4.9E-05	1.2E-04	1.8E-08	6.2E-08
Total Petroleum Hydrocarbons (TPH)												
Total Volatile Hydrocarbons (TVH)	6 (100%)	13	44	26	----	----	----	2.9E-02	1.0E-01	2.3E-01	3.5E-05	1.2E-04
				Cumulative Risk	----	----	----					
							Hazard Index	3.1E-02	1.1E-01	2.5E-01	3.8E-05	1.3E-04

Notes:
mg/m^3 = milligram per cubic meter
---- = Not evaluated because chemical is not classified as a carcinogen.

[a] Commercial workers, residents, and park users are assumed to be exposed to volatile chemicals migrating from 5-foot bgs soil gas to indoor or outdoor air.
[b] Includes all chemicals detected in soil gas collected at a depth of≤ 5 feet bgs.
[c] The maximum concentration is the maximum concentration after averaging samples from the same location (e.g. duplicates)

TABLE 6.48
Summary of Estimated Cancer Risks and Noncancer Hazard Indices for Parcel O-5 - Soil[a] and Soil Gas
Hitachi Global Storage Technologies, Inc.
San Jose, California

Media	Area	Cancer Risk			Hazard Quotient				
		Commercial Worker	Age Adjusted Resident	Age Adjusted Park User	Commercial Worker	Adult Resident	Child Resident	Adult Park User	Child Park User
Soil	Electrical Substation [b]	----	----	----	6.5E-04	7.5E-04	6.4E-03	2.2E-04	1.8E-03
Soil	Soil in Raleigh Road	9.8E-09	2.1E-08	1.1E-09	4.3E-02	6.0E-02	5.4E-01	1.7E-02	1.5E-01
Soil	Passenger Elevator Pit - Building 051	9.0E-09	1.9E-08	1.0E-09	4.0E-02	5.6E-02	5.1E-01	1.6E-02	1.5E-01
Soil	Loading Dock Elevator - Building 051	1.0E-08	2.2E-08	1.2E-09	4.0E-02	5.6E-02	5.1E-01	1.6E-02	1.5E-01
Soil	Parking Lot - Building 051	1.6E-08	3.4E-08	1.9E-09	4.3E-02	6.0E-02	5.4E-01	1.6E-02	1.5E-01
Soil	Current and Former Orchards	2.1E-07	7.5E-07	2.1E-07	4.9E-02	6.8E-02	6.2E-01	1.9E-02	1.7E-01
Soil Gas	Due Diligence Sampling	----	----	----	3.1E-02	1.1E-01	2.5E-01	3.8E-05	1.3E-04

Notes:

---- = No chemicals classified as carcinogens were detected in this area.

Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Cancer risks and hazard indicies for soil do not include arsenic.

[b] Area includes historical soil samples collected between 1984 and 1990.

TABLE 6.49
Estimated Cancer Risks and Noncancer Hazard Indices for Endicott Boulevard/Tucson Way - Soil
Hitachi Global Storage Technologies, Inc.
San Jose, California

Chemical	No. Samples Detected (%) [a]	Mean [a] (mg/kg)	Maximum [a] (mg/kg)	EPC [a] (mg/kg)	Cancer Risk: Commercial Worker Inhalation, Ingestion, and Dermal Contact	Cancer Risk: Age Adjusted Resident Inhalation, Ingestion, and Dermal Contact	Cancer Risk: Age Adjusted Park User Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Commercial Worker Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Adult Resident Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Child Resident Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Adult Park User Inhalation, Ingestion, and Dermal Contact	Hazard Quotient: Child Park User Inhalation, Ingestion, and Dermal Contact
Total Petroleum Hydrocarbons (TPH)												
TPH-Diesel	10 (83%)	4.2	19	7.9	----	----	----	1.6E-04	1.8E-04	1.5E-03	5.2E-05	4.4E-04
TPH-Shell Sol 140	1 (8.3%)	1.0	1.6	1.1	----	----	----	1.8E-05	2.1E-05	1.8E-04	6.0E-06	5.1E-05
Pesticides												
DDD	1 (10%)	0.0026	0.0042	0.0026	2.6E-10	1.1E-09	3.1E-10	NT	NT	NT	NT	NT
DDE	4 (40%)	0.0077	0.023	0.013	1.9E-09	7.6E-09	2.2E-09	NT	NT	NT	NT	NT
Metals												
Arsenic	9 (90%)	5.2	6.9	6.0	**2.4E-05**	**9.8E-05**	**2.8E-05**	2.4E-02	3.1E-02	2.8E-01	8.8E-03	7.9E-02
				Cumulative Risk	**2.4E-05**	**9.8E-05**	**2.8E-05**					
				Cumulative Risk (w/out arsenic)	2.1E-09	8.6E-09	2.5E-09					
							Hazard Index	2.4E-02	3.1E-02	2.8E-01	8.8E-03	8.0E-02
							Hazard Index (w/out arsenic)	1.7E-04	2.0E-04	1.7E-03	5.8E-05	4.9E-04

Notes:
mg/kg = milligram per kilgram
---- = Not evaluated because chemical is not classified as a carcinogen.
NT = No toxicity data available.
Bold values indicate a cancer risk greater than 10^{-6} or a hazard index greater than 1.

[a] Includes all chemicals detected in soils collected at a depth of ≤ 10 feet bgs remaining at the Redevelopment Property after completion of remedial activities.